



# **2016 Annual Monitoring Report RCRA Corrective Action IND 980 700 801**

2915 Dr. Martin Luther King Jr. Boulevard, Anderson, IN  
Revitalizing Auto Communities Environmental Response Trust

Indiana Department of Environmental Management

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## List of Acronyms/Short Forms

|             |                                                |
|-------------|------------------------------------------------|
| 1,1-DCA     | 1,1-dichloroethane                             |
| 1,1-DCE     | 1,1-dichloroethene                             |
| mg/L        | milligram per liter                            |
| AOC         | area of concern                                |
| AOI         | areas of interest                              |
| bgs         | below ground surface                           |
| BTEX        | benzene, toluene, ethylbenzene and xylenes     |
| cis-1,2-DCE | cis-1,2-dichloroethene                         |
| CM          | corrective measures                            |
| CMP         | Corrective Measures Proposal                   |
| CRA         | Conestoga-Rovers and Associates                |
| DCE         | dichloroethene                                 |
| DO          | dissolved oxygen                               |
| ENVIRON     | ENVIRON International Corporation              |
| EPA         | United States Environmental Protection Agency  |
| FEMA        | Federal Emergency Management Agency            |
| FMG         | Field Method Guideline                         |
| GMC         | General Motors Corporation                     |
| HRC®        | hydrogen release compound                      |
| ID          | sample identification                          |
| IDEM        | Indiana Department of Environmental Management |
| IDNR        | Indiana Department of Natural Resources        |
| IDW         | investigative derived waste                    |
| IM          | Interim Measure                                |
| MCL         | Maximum Contaminant Level                      |
| MLK         | Martin Luther King Jr.                         |
| MS/MSD      | matrix spike/matrix spike duplicate            |





|               |                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------|
| NA            | Natural Attenuation                                                                                |
| NAVD          | North American Vertical Datum                                                                      |
| ORP           | oxidation reduction potential                                                                      |
| POTW          | Publicly Owned Treatment Works                                                                     |
| RACER         | Revitalizing Auto Communities Environmental Response                                               |
| RCGSL         | Remediation Closure Guide Screening Levels                                                         |
| RCRA          | Resource Conservation and Recovery Act                                                             |
| RFI           | RCRA Facility Investigation                                                                        |
| RHHRA         | Human Health Risk Assessment and Derivation of Site-Specific Risk-based<br>Screening Levels Report |
| SWMU          | Solid Waste Management Unit                                                                        |
| TCE           | trichloroethene                                                                                    |
| TCL           | target compound list                                                                               |
| TOC           | total organic carbon                                                                               |
| trans-1,2-DCE | trans-1,2-dichloroethene                                                                           |
| U.S.          | United States                                                                                      |
| VOC           | volatile organic compound                                                                          |
| WWTP          | wastewater treatment plant                                                                         |



## 1. Introduction

GHD, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared this 2016 Annual Monitoring Report (Report) for the RACER Trust facility located at 2915 Dr. Martin Luther King Junior (MLK) Boulevard in Anderson, Indiana (Site).

This Report has been prepared to summarize the results of groundwater and surface water monitoring conducted at and near the Site in 2016. This Report is submitted to the Indiana Department of Environmental Management (IDEM) in support of ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action at the Site. The monitoring was conducted pursuant to the Site-wide Groundwater Monitoring Plan (AECOM, October 28, 2010), subsequent recommendations made in the 2010 Annual Groundwater Monitoring Report (AECOM, January 2011), request for modifications to the Site-wide Groundwater Monitoring Plan (Conestoga-Rovers and Associates [CRA], April 2012), conclusions presented in the 2013 Annual Groundwater Monitoring Report (CRA, February 2014), recommendations made in the 2014 Annual Groundwater Monitoring Report (CRA, February 2015), and recommendations made by IDEM in 2015.

### 1.1 Objectives

The Site-wide groundwater monitoring program was intended to be implemented concurrent to the final corrective measures at the Site. As such, the primary objectives of the Site-wide groundwater monitoring are to:

1. Evaluate the effectiveness of the corrective measures (CM), if any, for groundwater
2. Monitor the stability of the two volatile organic compound (VOC) groundwater plumes

As final corrective measures have not been implemented to date, this Report has been prepared to present a stability analysis of the VOC plumes as updated with 2016 data. As appropriate, this Report supplements findings of the Final RCRA Facility Investigation (RFI) Report (CRA, June 2014) and the previous annual groundwater monitoring reports (Earth Tech, Inc. and ENVIRON, January 31, 2007; Earth Tech, Inc., January 31, 2008; AECOM, February 27, 2009, April 26, 2010, January 31, 2011, and January 31, 2012; CRA February 2013, January 2014 and February 2015; GHD January 2016). It is noted that the historical information in this Report is largely cited from the 2011 Annual Groundwater Monitoring Report (AECOM, 2012), prepared by others.

## 2. Groundwater Monitoring Overview

### 2.1 Site Description

The Site is located in the northwest quarter of Section 23, T19N, R7E, on the southwest side of Anderson, Madison County, Indiana. Formerly, the Site comprised approximately 3,000,000 square feet of manufacturing area situated on 234 acres. Dr. Martin Luther King Junior Boulevard divides the Site in a north-south direction. General Motors Corporation (GMC) previously conducted automotive parts manufacturing operations in plants on both sides of MLK Boulevard. The former



east manufacturing areas (Plants 6 and 9) are bounded by MLK Boulevard on the west, by a railroad on the south, by 29th Street on the north, and by Madison Avenue on the east. A Site location map is provided on Figure 1 and a Site plan is provided on Figure 2.

The manufacturing facilities west of MLK Boulevard, referred to as the Main Plant, were bounded on the west, south and southeast by railroad tracks, and on the north by 25th Street. Facility parking areas were located west of the westernmost railroad, and north of 25th Street. Formerly developed areas of the property were largely covered with asphalt or concrete. Land use surrounding the Site varies from residential and commercial on the north and east, residential and recreational on the south, and residential and agricultural on the west. A small public-access park is located in the northwest part of the Site. The Meadowbrook Golf Course is located southeast of the Site.

GMC began operations at the MLK Boulevard facility in 1929. Manufacturing plants were expanded several times, generally proceeding from the north end of the Main Plant southward and eastward. East of MLK Boulevard, Plant 9 construction commenced in 1969, and building additions were performed in 1973, 1977, 1981, 1985, 1986 and 1989. Manufacturing operations on the Site ceased in 2006. All facilities west of MLK Boulevard were demolished during the period of late 2007 to early 2009. The demolition included the removal of all concrete building slabs and many areas of pavement around the immediate Main Plant building area. Following demolition, the area was regraded and covered with varying thicknesses of crushed concrete. A soil and vegetative cover were applied during the summer of 2009. The southern portion of the former Main Plant building location is now an open field. The northern portion of the former Main Plant building was divested and redeveloped as a plastic injection molding plant in 2015.

The former Plant 6 and 9 properties and a lot east of Madison Avenue were sold soon after related manufacturing operations ceased in 1997. The remaining portions of the property were held by GMC until its bankruptcy in June 2009. The RACER Trust was created in March 2011 by the United States (U.S.) Bankruptcy Court to clean up and position for redevelopment certain properties and other facilities owned by former GMC before the 2009 bankruptcy. With the exception of Tract B (North), the remaining portions of the Site that were held by GMC until its bankruptcy in June 2009 are currently owned by RACER Trust. The Site boundary, historical operations, and Areas of Interest (AOIs)/ Areas of Concern (AOCs) are provided on Figure 3.

## 2.2 Hydrologic Setting

### 2.2.1 Physiography

The Site is situated in the New Castle Till Plains and Drainage ways Section of the Central Till Plain Region as described by Gray (2000). This area was affected by multiple continental glaciations that deposited a thick blanket of glacial sediments over the bedrock. The New Castle Till Plains and Drainage ways Section is primarily underlain by complexly stratified glacial diamict deposits, glaciofluvial sand and gravel deposits and glaciolacustrine silt and clay deposits. The area is characterized by broad plains of low relief crossed by relict glacial meltwater valleys (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).



### 2.2.2 Stormwater/Surface Water Drainage

The Site area is nearly level with elevations ranging from 860 to 880 feet North American Vertical Datum (NAVD) 88. East of MLK Boulevard the elevation is lowest, and the surface elevation descends into a relict glacial meltwater valley. Former Plant 9, Plant 6, and the Meadowbrook Golf Course are all located in the relict meltwater valley, the western border of which roughly follows the alignment of MLK Boulevard. This valley trends south-southwest from Anderson, Indiana several miles towards Pendleton, Indiana (Brown and others, 2003). A small channelized stream, Stanley Ditch, occupies the north end of the relict meltwater valley and drains westward along the south boundary of the Meadowbrook Golf Course. Stanley Ditch originally flowed to the north between former Plant 6 and Plant 9 but was diverted southward in 1963 to provide stormwater relief for the City of Anderson combined sewer system. As a result, Stanley Ditch is now tributary to Prairie Creek and flows to the south down the trend of the valley to Pendleton, Indiana where it joins Fall Creek, a tributary to the West Fork White River.

Stormwater run-off from paved areas of the property either infiltrates the ground surface or is directed to the combined sewer system that discharges north to the City of Anderson Publicly Owned Treatment Work (POTW) on the West Fork White River. The combined sewer system flows northward across the Meadowbrook Golf Course property and beneath former Plant 9 up the trend of the relict meltwater channel. Stormwater on the northern portion of the Meadowbrook Golf course property is directed through piping, and discharges to ponds. Stormwater in the southern portion of the Meadowbrook property drains southward toward Stanley Ditch that flows along the southern and eastern property boundaries of the golf course.

A drainage divide between Stanley Ditch and Prairie Creek, draining to the south, and the combined sewer system, draining north to West Fork White River, appears to occur near the south side of former Plant 9, perhaps near and along the South Anderson Cutoff railroad embankment. Areas to the south of the railroad embankment, including most of the Meadowbrook Golf Course, are floodway and floodway fringe areas subject to flooding (FEMA, February 18, 1994). (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

### 2.2.3 Hydrogeology

Figure 4 presents a generalized, schematic east-west hydrogeologic cross-section of the unconsolidated materials at the Site showing monitoring well completion intervals. The unconsolidated deposits range from less than 20 feet to over 160 feet in thickness and overlie an irregular bedrock surface. Bedrock beneath the Site consists of carbonate rocks of Silurian age. The bedrock topography beneath the Site slopes to the northwest into a pre-glacial bedrock valley. The bedrock is high (above 840 foot elevation) in the southern portion of the former Plant 9 area and at the Meadowbrook Golf Course. Bedrock is generally only about 20 feet below ground surface (bgs) in this area as a result of both the high bedrock elevation and low ground surface elevation in the relict meltwater valley area east of MLK Boulevard. To the northwest, the bedrock elevation descends to below 730 foot elevation at former groundwater production well 11 and the bedrock in this area is in excess of 158 feet bgs.

Detailed hydrogeologic cross-sections are presented in both the Stage II RFI Data Report (Earth Tech, March 30, 2005) and the RFI Final Report (Earth Tech and ENVIRON,



September 28, 2007). Five distinct geologic units are recognized in the unconsolidated surficial soil materials. These units are identified from top to bottom as Units 1 to 5.

Unit 1 is a heterogeneous fill material consisting of silty clay loam, silty clay, sandy clay, sandy clay loam, and loam texture soil intermixed, in places, with debris consisting of wood, brick, glass, brick, concrete, coal fragments, and cinders. The unit consists of fill material placed at various times during the developmental history of the property and is generally no more than a few feet in thickness. In places, the lower portion of the Unit 1 fill is saturated and a localized perched groundwater zone occurs. The clayey diamicts in the underlying Unit 2 confining unit cause this perched groundwater condition. Saturated conditions have been observed in the basal portion of Unit 1 in several shallow AOC 1 – South Court Area soil borings.

Unit 2 is a glacial diamict of silty clay loam, silty clay, and loam texture with occasional thin, interbedded sand and gravel deposits. Sand and gravel lithologies make up a small percentage of the unit. Unit 2 is thin in southern and eastern parts of the Site, but thickens to the north and west.

Unit 3 consists of stratified sand and gravel and forms the uppermost aquifer beneath the Site. In places, a diamict occurs within Unit 3 and is identified as the Unit 3 Confining Bed. At some locations the confining bed is represented by a distinctive silty texture and laminated structure. The confining bed is hydrologically significant because it separates the Unit 3 aquifer into an upper portion (Unit 3S) and lower portion (Unit 3D). Unit 3 is generally only 10 to 20 feet thick in the eastern part of the Site beneath the meltwater valley. The unit thickens appreciably in the western part of the area where it forms the major portion of the unconsolidated deposits.

Unit 3 is almost entirely within the phreatic zone and is the uppermost aquifer unit at the Site. Groundwater may exist in the unit under both confined and unconfined conditions. Where the base of Unit 2 is relatively high in elevation, the upper few feet of Unit 3 are unsaturated, and unconfined conditions occur. At locations where the base of Unit 2 is relatively low in elevation the top of Unit 3 is saturated, and confined conditions occur.

Conceptually, Unit 3 may be divided into an upper (Unit 3S) and lower (Unit 3D) part. In those places where there is no physical separation between the upper and lower parts of the unit provided by the Unit 3 Confining Bed, the designations 3S and 3D merely provide a convenient way to refer to the upper and lower portions of the Unit 3 aquifer, and the monitoring wells completed therein. Where a physical separation occurs due to the presence of the Unit 3 Confining Bed, Unit 3S refers to that portion of the aquifer above the confining layer and Unit 3D refers to that portion below the confining layer. Locally, the Unit 3 Confining Bed induces a downward vertical gradient within the Unit 3 aquifer. Where the confining bed is absent, water levels in Units 3S and 3D are comparable.

The lateral groundwater gradient in Unit 3S is directed to the east-northeast in AOC 1 - South Court Area. Locally there are significant variations in the magnitude and direction of the gradient related, in part, to the presence or absence of the Unit 3 Confining Bed. An east-southeast oriented potentiometric trough in Unit 3S persistently occurs in the vicinity MW 40, MW 42, and MW 68 where the confining bed is absent. In this area groundwater flow in Unit 3S appears to be directed easterly into the relict meltwater valley.

The hydraulic gradient for Unit 3D is more consistent and the potentiometric surface for this unit suggests an eastward gradient in the South Court Area and along MLK Boulevard into the relict



meltwater valley. The north-northeast / south-southwest oriented relict meltwater valley at former Plant 9 and the Meadowbrook Golf Course appears to induce a hydraulic gradient to the south along its axis. Contaminants in the lower portion of Unit 3 would be expected to move generally eastward and then southward near the former wastewater treatment plant (WWTP) area.

Unit 4 consists of hard diamict of loam or clay loam texture. The unit forms a confining bed between Unit 3 and Silurian carbonate bedrock. The unit is absent from the eastern part of the area at Plant 9 and portions of the adjacent Meadowbrook Golf Course.

Two deep bedrock borings at the north end of the Site (MW 62 and MW 71) encountered a bed of cobbles above the bedrock surface. This zone is referred to as Unit 5. The unit was encountered at no other locations. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

## 2.3 Previous Groundwater Investigations

The following sections summarize groundwater investigations that have been conducted at the Site. Monitoring wells on and adjacent to the Site have been installed at various times. There are currently a total of 90 monitoring wells in the area as shown on Figure 2. The earliest Site wells (MW 1 to MW 17) were installed in 1992 and 1993 for the purposes of evaluating a suspected waste oil leak at Area 1 – Former Waste Oil Tank [Solid Waste Management Unit (SWMU) 16]. The longest monitoring history exists for these wells. Most of the 1992 – 1993 wells were installed in Unit 3S. No evidence of a significant waste oil leak was found at SWMU 16, but elevated concentrations of VOCs, primarily trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were detected in several wells in this area. These wells are now known to be located in and around a source area for the Area 1 – South Court VOC plume, as described later in the report.

Work associated with RFI Stage I in 2000 – 2001 included installation of 20 new monitoring wells (MW 18 to MW 37) and collection of 85 groundwater samples from new and existing wells. The new wells were completed in Units 1, 3S, and 3D. The Stage I investigations partially delineated a groundwater VOC plume extending north and east from AOC 1 - South Court. This plume was found to lie underneath several previously-defined AOIs and was referred to as Area 1. The Stage I RFI investigations identified concentrations of TCE, cis-1,2-DCE, and vinyl chloride above screening criteria based on state and federal Maximum Contaminant Levels (MCLs). A Stage I RFI report was completed in 2001, and this report included a work plan for additional groundwater delineation work in both on and off-Site areas (Earth Tech and ENVIRON, July 31, 2001).

In 2001 a Phase II Environmental Site Assessment was conducted in the north parking area and three monitoring wells (MW1-01 to MW3-01) were installed.

Stage II RFI investigations began in late 2003. Work associated with the Stage II RFI in 2003 – 2005 included installation of 47 monitoring wells (MW 38 to MW 84) and collection of 182 groundwater samples from both new and existing wells. Area 1 was expanded to include Plant 9 as well as off-Site areas including Meadowbrook Golf Course. Seven wells (MW-1 to MW-7) were installed on the golf course by others in 2003. Sampling of MW-4 in October 2003 indicated that high concentrations of cis-1,2-DCE and vinyl chloride were present. Additional wells (MW 56, MW 57, MW 58, MW 77, and MW 85) were installed by GMC on the golf course in 2004 and 2007 to delineate the VOC plume southeast of MW-4. These and other RFI Stage II monitoring wells





delineated the concentrations of TCE, cis-1,2-DCE, and vinyl chloride above MCLs both on and off-Site (Earth Tech and ENVIRON, September 28, 2007).

Three additional monitoring wells (MW 86, MW 87, and MW 88) were installed on the Plant 9 property in October 2010 to provide additional downgradient plume delineation. One well was installed downgradient of MW49 (MW89-11) in 2011 to provide additional downgradient plume delineation in proximity to nearby residential land use. In 2012 and 2013, three monitoring wells (MW90-12, MW91-12, and MW92-13) were installed near a recently identified AOI referred to as former Bay M26/M27 to assess groundwater quality in the vicinity of the AOI, not previously investigated. In 2013, four monitoring wells (MW 93-13 to MW 96-13) were installed to delineate the horizontal extent of groundwater impacts at the perceived source area for the former WWTP Area plume. In 2014 one monitoring well (MW97-14) was installed to monitor the plume stability beneath the Meadowbrook Golf Course.

Seventeen monitoring wells (MW 1-01, MW2-01, MW3-01, MW 11, MW 24, MW 25, MW 34, MW35, MW 52, MW 53, MW 54, MW 55, MW 69, MW 70, MW 71, MW 72, and MW 73) north and west of the former main manufacturing areas, upgradient of the VOC plumes, and not a part of the IDEM approved GMP were abandoned in March and April 2014.

From October 2005 until October 2007 GMC conducted quarterly monitoring of a selected group of monitoring wells according to an interim Site-wide groundwater monitoring plan (Conestoga-Rovers & Associates, September 20, 2005). This work was conducted for nine consecutive quarters ending in October 2007. Summary results from this monitoring have been provided in the previous 2006 and 2007 Annual Groundwater Monitoring Reports (Earth Tech and ENVIRON January 31, 2007, January 31, 2008). An additional round of groundwater monitoring was conducted in February 2008.

The interim monitoring program was replaced by a Site-wide Groundwater Monitoring Plan associated with the draft Final Corrective Measures Proposal (CMP) for the facility. This program consists of semiannual sampling at a modified well list with sampling of two surface water monitoring points on the Meadowbrook Golf Course conducted three times per year. The sampling plan for this program (AECOM, October 28, 2010) was approved by the IDEM on November 24, 2010. Sampling under this program has been conducted since June 2008. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

## 2.4 Area 1 – South Court And Related Areas

The groundwater contaminant plumes at the Site are associated with Area 1 – South Court and Related Areas. Previous isoconcentration maps for Unit 3 suggest there are two separate VOC plumes. One plume is associated with Area 1 – South Court. The AOC 1 – South Court plume extends in a northeast direction from the South Court beneath several SWMUs in the former Main Plant building area. The predominant VOC contaminants detected in this area are TCE, cis-1,2-DCE, and vinyl chloride. The highest reported concentrations of TCE in this plume are found in the South Court at MW 3 (Unit 3S) and MW 15 (Unit 3S). Perched groundwater in Unit 1 appears to serve as a source area for VOC contaminants in Unit 3. These VOC contaminants are present in both the 3S and 3D portions of Unit 3, but concentrations are generally higher in the upper portion of the unit.





A separate plume is located along and east of MLK Boulevard. The primary evidence for separation of this plume from the AOC 1 – South Court plume comes from five Unit 3S wells located between the plumes where VOCs have not been detected, or detected at only very low levels (MW 16, MW 17, MW 46, MW 59 and MW 84). The VOC plume east of MLK Boulevard extends from an apparent source near MW 68 and the former WWTP along MLK Boulevard eastward toward former Plant 9 and the Meadowbrook Golf Course. The plume has migrated to the south to at least MW 57, MW 85, and MW 97R-16 on the golf course. This plume is referred to as the former WWTP Area plume. The predominant VOC constituents detected in this area are cis-1,2-DCE, and vinyl chloride. TCE is only a minor plume component.

## 2.5 Interim Measures

GMC implemented three interim measures (IMs) related to soil and groundwater at the Site. One interim measure included the removal of soil in the area of MW 31 associated with AOC 1 – South Court that contained TCE concentrations that were an order of magnitude greater than the soil concentrations in other portions of the area. In addition to removing the soil in this area, perched groundwater in Unit 1 fill was treated with hydrogen release compound (HRC<sup>®</sup>) as a source control measure for TCE, cis-1,2-DCE, and vinyl chloride in Unit 1 and the underlying Unit 3 groundwater. During the IM, monitoring well MW 31 completed in the fill soil was removed. Following the IM, a replacement well (MW 31R) was installed at the former MW 31 well location.

The second interim measure implemented by GMC included the abandonment of two potable wells at the Meadowbrook Golf Course and subsequent connection of the golf course to public water supply. In addition, GMC and the owners of the Meadowbrook Golf Course have entered into an access agreement that prohibits the use of groundwater under the golf course property. The agreement does allow use of surface water from a pond on the property for irrigation purposes. Samples from this pond are regularly collected and analyzed for VOCs.

The third interim measure implemented by GMC included the abandonment and plugging of five former groundwater production wells on Site. This work was completed during the period April 30 to September 4, 2007 in accordance with Indiana Department of Natural Resources (IDNR) well abandonment rules (312 IAC 13). Abandonment activities included electrical disconnect, pump motor and pump column removal, and well grouting. The work followed a written work plan for well abandonment (Earth Tech, July 27, 2006) and was conducted by a licensed State of Indiana water well drilling contractor. The work is summarized in an Earth Tech memo dated November 16, 2007. (2011 Annual Groundwater Monitoring Report, AECOM, January 31, 2012).

## 3. Groundwater and Surface Water Monitoring and Well Maintenance Activities

Groundwater and surface water monitoring activities were conducted in 2016 in general accordance with the Site-wide Groundwater Monitoring Plan, as modified. The Site-wide groundwater monitoring program includes 39 monitoring wells sampled annually with a subset of these wells sampled semi-annually. The surface water monitoring program includes sampling the Meadowbrook Golf Course Irrigation Pond during the spring, summer, and fall seasons. A summary of the Site-



wide groundwater monitoring program is provided in Table 1. Monitoring well construction details are provided in Table 2.

As detailed in the 2015 Annual Groundwater Monitoring Report, monitoring wells MW 75 and MW 76 were covered with 1- to 2-feet of gravel during construction activities in 2015 by the new owner of Tract B (North). In May 2016, MW 75 was located and repaired and was resurveyed in July 2016. MW 76 could not be found despite multiple attempts to locate the well. As such, MW 76 will be replaced in 2017.

Monitoring well MW 97-14 was installed on the Meadowbrook Golf Course in 2014 to delineate the WWTP plume. However, the Meadowbrook Golf Course property owner subsequently expressed concerns over the location of MW 97-14 from a lawn maintenance and a customer nuisance perspective. As such, MW 97-14 was decommissioned and replaced in May 2016 (MW 97R-16) at a nearby location. The stratigraphic log for MW 97R-16 is provided in Appendix A.

### 3.1 Hydraulic Monitoring

Water level measurements were collected during the April and October 2016 monitoring events. During the April 2016 event, water levels were generally collected from accessible monitoring wells included in the Site-wide groundwater monitoring program. During the October 2016 event, water levels were collected from all accessible monitoring wells and at the Pond North location. Some monitoring wells were not gauged during either event as they could not be located or were not accessible. The static groundwater elevations measured during the April and October 2016 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2015 for comparative reference.

### 3.2 Groundwater Quality Monitoring

There are currently 39 wells included in the Site-wide groundwater monitoring program as summarized in Table 1. Semi-annual groundwater monitoring was conducted by GHD between April 18 and 22, 2016. Annual groundwater monitoring was conducted by GHD between October 17 and 25, 2016. A sample key summarizing the groundwater samples collected during the April and October 2016 monitoring events is provided in Table 4.

In the 2015 Annual Groundwater Monitoring Report, GHD recommended that sampling for natural attenuation (NA) parameters continue on an annual basis to assist in evaluating remedial alternatives for both VOC plumes. During the October 2016 sampling event, NA parameters were collected from 16 monitoring wells (MW-2, MW 3, MW-4, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 57, MW 58, MW 64, MW 66, MW 68, MW 79, MW 85, and MW 89-11). The NA parameters included dissolved oxygen (DO), oxidation reduction potential (ORP), and pH collected in the field and laboratory analysis of alkalinity (bicarbonate and carbonate), chloride, dissolved gases (ethane, ethene, methane), dissolved manganese, dissolved organic carbon, hardness, nitrate, nitrite, sulfate, sulfide, and total organic carbon (TOC).

Prior to groundwater sample collection, the monitoring wells were purged using a submersible pump and low flow purge techniques, to the extent practical to remove suspended solids, reduce turbidity, and allow visual observation of sample color. Field parameters including conductivity, DO, ORP, pH, temperature, and turbidity were recorded. No color consistent with electroplating operations



was observed during purging activities. Groundwater samples were collected using a submersible pump and low flow sampling techniques. Groundwater samples, including field duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples, were submitted to TestAmerica for chemical analysis of target compound list (TCL) VOCs using analytical method 8260B. Well stabilization parameters recorded by GHD are provided in Table 5.

### 3.3 Surface Water Sampling

Surface water samples were collected by GHD on April 22, July 19, and October 24, 2016 from the central irrigation pond located southeast of MW-85 on the Meadowbrook Golf Course. Samples were collected near the irrigation water intake (Pond Intake) and also from a location closest to MW-85 (Pond North). Surface water samples, were submitted to TestAmerica for chemical analysis of TCL VOCs using analytical method 8260B.

### 3.4 Sampling Protocol

Monitoring well and surface water samples collected were assigned a unique sample identification (ID) number. Sample ID numbers were recorded in a field book with the corresponding sample location.

All monitoring well samples were collected using low-flow submersible pumps that are dedicated to the project and well-specific dedicated Teflon-lined pump discharge tubing. All non-consumable equipment that contacted groundwater was decontaminated in accordance with the Field Method Guidelines (FMGs) contained in the Site-wide Groundwater Monitoring Plan. Consumable equipment (tubing) and personal protective equipment were appropriately disposed of off-Site.

Investigative derived waste (IDW) generated from purge and decontamination activities was containerized in an on-Site bulk polyethylene tank. A non-hazardous waste profile for the IDW was developed in October 2016. The IDW was removed from the Site for appropriate off-Site disposal on November 23, 2016 by Liquid Waste Removal, Inc.

### 3.5 Deviations from the Site-wide Groundwater Monitoring Plan

All monitoring wells included in the Site-Wide Groundwater Monitoring Plan were gauged in accordance with the Site-Wide Groundwater Monitoring Plan, with the exception of monitoring wells MW 29 and MW 59 that were inadvertently missed during the April 2016 event. Every attempt will be made to ensure water levels at these two monitoring wells will be collected during subsequent events in accordance with the Site-Wide Groundwater Monitoring Plan. As in the past, GHD collected water level data from approximately 30 monitoring wells not included in the Site-wide Groundwater Monitoring Plan to provide additional potentiometric details across the Site.

As detailed in Section 3.0, MW 76 has been destroyed and could not be sampled during the October sampling event. Monitoring well MW76 will be replaced in 2017, prior to the October groundwater monitoring event.

MW 49 could not be sampled during the October sampling event as it was covered by rail ties. RACER Trust is currently working with CSX to update the CSX access agreement for the Site and to gain access to MW 49.



## 4. Potentiometric Surface Mapping

The groundwater elevations measured during the April and October 2016 monitoring events are summarized in Table 3, along with previous groundwater elevations measured in October 2015 for comparative reference. Water levels measured during the April event were generally higher than those measured in October.

Based on the October 2016 groundwater elevations, GHD developed potentiometric groundwater contours for Unit 3S, Unit 3D, and the bedrock units as shown on Figures 5 to 7, respectively.

The groundwater contours representative of the October 2016 Unit 3S data are provided on Figure 5. The groundwater elevation contour map indicates that there is a general northeasterly gradient beneath the central and northern portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the October event again indicates the presence of a prominent groundwater mound, or ridge in Unit 3S that extends in a north-south arc from the MW 46 area on the south to about MW 29 on the north. As discussed in previous annual reports, this groundwater high appears to separate the AOC-1 South Court and WWTP Area plumes. The AOC-1 South Court plume extends beneath the former Main Plant building and affects several monitoring wells including, from south to north, MW 79, MW 60, and MW 51. In contrast, the Unit 3S monitoring wells along the arc including MW 46, MW 16, MW 84, MW 59, and MW 29 have not shown any significant VOC contamination.

The groundwater contours representative of October 2016 Unit 3D data are provided on Figure 6. The groundwater elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a predominantly western gradient across the east portion of the Site into the Meltwater Valley.

The groundwater contours representative of the October 2016 bedrock unit data are provided on Figure 7. The groundwater elevation contour map indicates that there is an easterly gradient in the bedrock unit across the Site.

## 5. Analytical Results

The sample key (Table 4) summarizes the groundwater and surface water monitoring conducted in 2016. The laboratory certificates of analysis are provided in Appendix B. The 2016 VOC laboratory analytical data generated from the groundwater and surface water sampling have been summarized in Table 6 and Table 7, respectively. Analytical data from all sampling events between 2012 and 2016 are presented on Figure 8 (on-Site) and Figure 9 (off-Site). Excluding chlorobenzene, styrene, and tetrachloroethene, the VOC parameter list shown on Figure 8 and Figure 9 includes any VOC that has exceeded conservative screening criteria at any well or surface water location during any sampling event. As noted in previous annual reports, chlorobenzene, styrene, and tetrachloroethene were detected in one June 2008 groundwater sample at MW 40 (WG-062608-JD-007) at concentrations over the drinking water criteria. Chlorobenzene and styrene have only been detected in this one sample, and the reported concentrations of 0.15 milligram per liter (mg/L) (with qualifier J – estimated value below reporting limit) and 0.14 mg/L (also with qualifier J), respectively,



are only slightly higher than the drinking water criteria of 0.1 mg/L. Both results were well below the sample reporting limit of 1.0 mg/L. Tetrachloroethene has been detected in only one groundwater sample at the Site since 2008. This detected concentration (0.43 mg/L with qualifier J in the June 2008 MW 40 sample) exceeded the drinking water criteria of 0.005 mg/L. Again the reported concentration of 0.43 mg/L was well below the sample reporting limit of 1.0 mg/L. Chlorobenzene, styrene, and tetrachloroethene were not detected in the subsequent events. For these reasons, chlorobenzene, styrene, and tetrachloroethene are not included in Figure 8 or Figure 9. The risk-based screening procedure is explained in Section 5.1.

TCE, cis-1,2-DCE and vinyl chloride remain the primary constituents associated with the AOC 1 – South Court and WWTP Area VOC plumes. Isoconcentration maps for TCE, cis-1,2-DCE and vinyl chloride are presented on Figures 10 through 12, respectively.

Data verification and validation reports for the analytical data collected during the 2016 Site-wide Groundwater Monitoring Plan activities were completed by GHD and are provided in Appendix C. Based on the verification and validation reports, the 2016 data is acceptable for use with the qualifications noted. During the April and October monitoring events, methylene chloride was present in laboratory method blanks at low concentrations. Associated sample results with concentrations similar to the blanks were qualified as estimated due to potential laboratory contamination. During the October monitoring event, TCE was present at a low concentration in one rinse blank sample. As such, an associated sample with a similar TCE result was qualified as non-detect.

## 5.1 Risk-Based Screening

A conservative risk-based screening was performed on the groundwater and surface water data collected during the Site-wide groundwater monitoring program in 2016. The data were compared to IDEM's Remediation Closure Guide Screening Levels (RCGSL) and conservative risk-based screening criteria based on potential exposure scenarios that were evaluated in CRA's Refined Human Health Risk Assessment and Derivation of Site-Specific Risk-based Screening Levels Report (October 2013) (RHHRA).

The groundwater monitoring data collected from areas where current and reasonably expected future land use is commercial/industrial were screened against the following: 1) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria and 2) Site-specific Commercial/Industrial Tap Water Use Criteria. Derivation of the Site-specific screening criteria is presented in RHHRA. Monitoring wells screened against these criteria are shown on Figure 8.

Groundwater data collected from areas where current and reasonably expected future land use is not commercial/industrial were screened against the following: 1) IDEM RCGSLs - Residential Tap Water Criteria; 2) IDEM RCGSLs - Vapor Exposure Residential Criteria; 3) IDEM RCGSLs - Vapor Exposure Commercial/Industrial Criteria; 4) Site-specific Recreator (Resident Swimming Pool) Criteria; 5) Site-specific Commercial/Industrial Tap Water Use Criteria. Sampling points screened against these criteria are shown on Figure 9.



## 5.2 AOC 1 – South Court Plume

The AOC 1 – South Court plume contains elevated concentrations of TCE and cis-1,2-DCE with the greatest TCE exceedances in monitoring wells near the AOC 1 - South Court source area.

Historically, increasing trends have been identified at some wells in the South Court plume. Most recently, MW49 and MW 79 have exhibited increasing trends in concentration of cis-1,2-DCE. The concentration of cis-1,2-DCE at off-Site monitoring well MW 49 in April 2016 was marginally lower than the concentration detected in October 2013, which was the highest recorded value to date. As detailed in Section 3.2, MW 49 was not accessible during the October 2016 sampling event. Downgradient of MW 49 (east-northeast and east), MW 46 and MW 89-11 were either free of detected VOC concentrations or exhibited only very low concentrations of VOCs, respectively. The concentration of cis-1,2-DCE at on-Site monitoring well MW 79 remained relatively unchanged when the October 2015 and October 2016 results were compared.

In October 2016, the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect results for all VOC constituents at monitoring wells MW 16, MW 37 and MW 46 and MW 84, with the exception of cis-1,2-DCE detected at MW 84. Cis-1,2-DCE was detected at east boundary monitoring well MW 84 at a concentration equal to the reporting limit. At the north perimeter boundary of the AOC 1 – South Court plume (MW 75), cis-1,2-DCE was detected in the deep portion of the Unit 3 aquifer at an estimated concentration below the associated laboratory limit. Monitoring well MW 76, screened in the shallow portion of the Unit 3 aquifer and adjacent to MW 75, could not be sampled during the October 2016 sampling event. However, it is noted that groundwater quality at MW 76 has historically remained relatively consistent, with detected concentration below applicable criteria.

No other increasing trends were observed in the South Court plume.

## 5.3 Former WWTP Area Plume

Monitoring wells in the former WWTP Area plume area contain elevated concentrations of primarily cis-1,2-DCE and vinyl chloride.

Historically increasing trends have been identified in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to vinyl chloride however, an increasing trend in the concentration of TCE is also observed at the source area (MW 68). Vinyl chloride concentrations are increasing at monitoring well MW 41, northeast of the source area, perimeter monitoring wells MW 28, MW 58, MW 64 and MW 66, and bedrock monitoring wells MW 81 and MW 83.

In October 2016, the southern and northern extents of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, MW 88, and MW97R-16 that were free of detected concentrations of VOCs (MW-2, MW 56, and MW 86) or contained very low and/or estimated concentrations of VOCs (MW 61, MW 88 and MW97R-16).

## 5.4 Extent of Groundwater Contamination

Figure 10 to Figure 12 show the isoconcentrations of the principal VOC constituents TCE, cis-1,2-DCE and vinyl chloride, respectively, in groundwater for hydrogeologic Unit 3. These





isoconcentration maps are based on October 2016 data and update those contained in the 2015 Annual Groundwater Monitoring Report (GHD, January 2016). The October 2016 data for each well are shown on the maps with non-detect results presented as half of the detection limit.

Since the Unit 3S confining unit is absent in the area of former Plant 9 and portions of the Meadowbrook Golf Course, and Unit 3 is relatively thin in these areas, the VOC data from wells in these areas may be shown on the Unit 3S isoconcentration maps. Combining data in this manner provides a useful portrayal of the former WWTP Area plume from its apparent source in the upper part of Unit 3 near MW 68 to its tail area occurrences at former Plant 9 and Meadowbrook Golf Course.

The isoconcentration maps continue to suggest that there are two separate VOC plumes. One plume is associated with AOC 1 – South Court and the second plume is derived from an apparent source area near MW 68. The plumes are separated by a series of Unit 3S wells where VOCs have not been detected, or have been detected only at very low levels (MW 16, MW 17, MW 29, MW 37, MW 46, MW 59 and MW 84). This was confirmed in 2013 with the sampling of monitoring wells MW29, MW 37, MW 46, MW 59, and MW 84, the results of which were non-detect for VOCs. A persistent groundwater ridge in Unit 3S occurs along this line of wells, and this mound appears to serve as a hydraulic barrier separating the two plume areas.

The AOC 1 – South Court plume in Unit 3S extends in a northeast direction from AOC 1 – South Court. The eastward extent of the plume appears to be limited by the groundwater mound noted in the preceding paragraph. The plume has historically been bounded to the northeast by MW 76 which was last sampled in October 2014. Marginal detections of cis-1,2-DCE and vinyl chloride have been identified at this well since 2012 however, the concentrations are estimated as they are lower than the associated reporting limits.

The former WWTP Area plume extends eastward from the apparent source area near MW 68 towards former Plant 9 and has migrated to the east to the vicinity of MW 64 and MW 66 and to the southeast to the vicinity of MW 57, MW 58 and MW 85. This VOC plume is composed primarily of cis-1,2-DCE and the highest reported concentrations occur in a series of monitoring wells from the source area (MW 68) southeast to the Meadowbrook Golf Course irrigation pond (MW 40, MW-4, and MW 85).

Prior to July 2006, MW 68, located just west of MLK Boulevard generally had the highest cis-1,2-DCE concentration in this plume and is inferred to be closest to the VOC source area. From December 2006 until April 2009 the highest cis-1,2-DCE concentration was generally found downgradient at MW 40. From December 2009 until October 2015, the highest cis-1,2-DCE concentration has generally been found at MW-4 downgradient of MW 40. In 2016 the highest cis-1,2-DCE concentration was found at MW 85 downgradient of MW-4, as indicated on the current isoconcentration map. This trend is consistent with the findings in the plume stability analysis completed as part of the Supplemental Analysis in Support of the CMP (GHD, August 12, 2015). The plume stability analysis concluded that TCE equivalent is decreasing in concentration and mass, while increasing in plume area advancing downgradient along the predominant flow direction.





The northeastern extent of the WWTP Area plume is established by MW 86 and MW 88 where VOCs are non-detect or, where detected, are detected at estimated concentrations below the reporting limit.

Vinyl chloride and TCE are subordinate components of the former WWTP Area plume. TCE is a relatively minor component even in the source area of this plume. The highest reported concentrations for vinyl chloride occur downgradient at MW-4, MW 40, and MW 85. The east edge of the former WWTP Area plume is marked by persistent occurrences of vinyl chloride in Unit 3D wells MW 58, MW 64, and MW 66.

## 5.5 Surface Water

Cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE) and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water sampling events conducted in 2016. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake.

# 6. MNA Evaluation

During the October 2016 sampling event, groundwater samples were collected and analyzed for NA parameters at 16 monitoring wells including ten on-Site monitoring wells (MW 3, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 64, MW 66, MW 68 and MW 79) and six off-Site monitoring wells (MW-2, MW-4, MW 57, MW 58, MW 85 and MW 89 11). These groundwater samples were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, TOC, DO, ORP, pH, ethane, ethene, and methane. NA data from 2012 to 2016 are presented on Figure 13. Ferrous iron was inadvertently omitted from the monitoring program in 2016.

The NA sample results were evaluated to determine if biodegradation of VOCs is occurring and if conditions at the Site are conducive for continued biodegradation to occur. A scoring system developed by the United States Environmental Protection Agency (U.S. EPA) in their "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water" (Technical Protocol) (U.S. EPA, 1998) was used to evaluate the conditions relevant to the South Court Area and former WWTP Area plumes. The AOC 1 – South Court plume was assessed using the wells within and near the South Court area (MW 3, MW 8, MW 15, and MW 79). The former WWTP Area plume was assessed using results from wells associated with its extents (MW 68, MW 40, MW-4, MW 57, MW 58, MW 64, MW 66, and MW 85). The locations selected for the NA evaluation represent conditions at different locations within the plume and along the flow path.

## 6.1 Natural Attenuation Processes

Microorganisms in the subsurface can biodegrade chlorinated VOCs under reducing conditions via reductive dechlorination. If the natural aquifer condition is aerobic, an increase in reducing conditions in the source area relative to background conditions indicates more microbial activity,



and therefore, biodegradation. For the most robust biodegradation of chlorinated VOCs to occur, conditions in the source zone should be sulfate-reducing or methanogenic.

A key indicator of biodegradation is the presence of daughter products at monitoring wells within the groundwater plume. Cis-1,2-DCE and vinyl chloride are the anaerobic biodegradation products of TCE. Vinyl chloride and chloride are the anaerobic biodegradation products of cis-1,2-DCE. Under anaerobic conditions, vinyl chloride can undergo further biodegradation to form ethene. Chloride, ethane, and ethene are the ultimate biodegradation products of all of the chlorinated ethenes under reducing conditions. 1,1,1-trichloroethane will biodegrade to 1,1-dichloroethane via the same processes under reducing conditions. An assessment of the degradation products observed at the Site is part of the score card evaluation.

In order to rank the evidence for biodegradation, the EPA score card assigns values for the redox conditions of the plume and the presence of daughter products. Points may also be gained or lost if conditions are especially favorable or unfavorable for microbial activity (i.e., pH and temperature). The final score is given for the plume as a whole. In accordance with the Technical Protocol, the score for each NA parameter is determined by comparing the background condition for that parameter against the most favorable value measured in the plume. The most favorable reducing conditions typically occur in the most contaminated zone(s). For example, if a location in the source zone has concentrations of methane greater than 0.5 mg/L, then the plume would receive the associated score (3 points), even if other locations in the plume have lower methane concentrations. In accordance with the Technical Protocol, the individual scores for each NA parameter are summed to provide the total points awarded for each plume. Based on the total points awarded, the evidence for anaerobic biodegradation is defined as inadequate, limited, adequate, or strong.

The results of the screening process are provided in Table 8 and indicate that there is adequate evidence for anaerobic biodegradation of chlorinated organics at both the AOC 1 – South Court Plume and the former WWTP Area Plume.

## 6.2 Assessment Results

Background conditions in geologic Units 3S and 3D range from aerobic to anoxic. Upgradient from AOC 1, MW 21 demonstrates aerobic conditions, with higher field readings of DO and ORP. MW 89-11 is upgradient from both plumes and demonstrates anoxic conditions, although the ORP value measured in October 2016 is much higher than would be expected, as no oxygen was measured at that location. Low levels of nitrate were detected at both locations, indicating only slightly reducing conditions may exist, as nitrate is the next electron acceptor to be utilized by bacteria after oxygen has been depleted. Low concentrations of methane are still present at the background locations, however, indicating that reducing conditions are probably present upgradient from both wells.

Because background conditions are slightly reducing, the evaluation of an increase in microbial activity within the source area (biodegradation of chlorinated compounds) will rely more on the presence of degradation products than on changes in redox conditions in the aquifer.

Daughter products of TCE, cis-1,2-DCE and vinyl chloride, were detected at various on-Site locations, and their concentrations were usually greater than other VOCs, particularly in the former



WWTP Area plume. The elevated presence of cis-1,2-DCE and vinyl chloride within the groundwater plume provides direct evidence that TCE is being degraded via reductive dechlorination. The relative ratios of dichloroethene (DCE) isomers are also used to provide information regarding the origin of DCE in groundwater. There are three DCE isomers: 1,1-DCE, cis-1,2-DCE, and trans-1,2-DCE. When DCE is released to the environment anthropogenically, the ratios of the three isomers are relatively equal. However, when DCE is produced through biodegradation of TCE, production of the cis-1,2-DCE isomer is favored over that of trans-1,2-DCE and 1,1-DCE (Wiedemeier et al., 1999; Wiedemeier et al., 1996). At the Site, the concentrations of cis-1,2-DCE are greater than those of the other DCE isomers, providing strong evidence that the DCE has been produced via biodegradation of TCE.

The highest ethene concentration (2.1 mg/L) was detected at monitoring well MW 31R. This provides evidence that the reductive dechlorination of TCE is occurring to completion in the Unit 1 (perched) groundwater, likely facilitated by the introduction of the Hydrogen Release Compounds around MW 31R in 2005. These compounds release lactic acid over time, which enhances biological degradation by maintaining reducing conditions. This location was not included in the screening of the AOC 1 – South Court plume due to the active remediation measures implemented to reduce concentrations in the source zone.

When there are readily available sources of carbon in the aquifer, biodegradation can proceed more intensively. Neither plume met criterion for concentrations of TOC (20 mg/L) or benzene, toluene, ethylbenzene and xylenes (BTEX) (0.1 mg/L) in the groundwater; however, the detection limits for the BTEX compounds were higher, in many cases, than the criteria for the scorecard, likely due to elevated concentrations of chlorinated compounds.

Background conditions were required for the relative assessment of alkalinity and chloride. When large amounts of chlorinated VOCs are degraded, chloride and alkalinity increase above background concentrations. Alkalinity can increase due to microbial activity, as the carbon dioxide produced interacts with rock in the subsurface, dissolving carbonate minerals. Chloride is a daughter product of biodegraded chlorinated VOCs. Data collected from wells unimpacted by VOCs (MW-2, MW 21, and MW 89-11) were used to calculate the mean background concentrations of alkalinity (365 mg/L) and chloride (40 mg/L). Concentrations of alkalinity have not exceeded double the mean background conditions, either on-Site or downgradient. Background concentrations are relatively high and may mask contributions to alkalinity from microbial activity. The concentration of chloride was more than double the background concentrations in the WWTP plume at MW 85 and at MW 31-R.

When evaluating the monitoring wells in the AOC 1 – South Court plume on a well-by-well basis, monitoring well MW 8 in the source area demonstrated good evidence for anaerobic biodegradation. Greater concentrations of ethene and ethane were detected at MW 8, demonstrating the complete degradation of TCE. Concentrations of 1,1-dichloroethane (1,1-DCA) were also detected at MW 3 and MW 15, which is evidence of the biodegradation of 1,1,1 trichloroethane in the South Court plume source area. Monitoring well MW 49 was inaccessible in October 2016, and therefore, no sample was collected. As there are no values for ferrous iron from the October 2016 sampling event, the results from previous years were used to evaluate if biodegradation of VOCs is occurring and if conditions at the Site are conducive for continued biodegradation to occur.



The monitoring locations near the source area of the former WWTP plume (MW 40 and MW 68) and those immediately downgradient (MW 4 and MW 85) demonstrated good evidence of anaerobic biodegradation. Concentrations of cis-1,2-DCE, vinyl chloride, and ethene were present, as well as 1,1 DCA. Concentrations of chloride at MW 85 were two times the background value; an indication of upgradient biodegradation.

Ethene, ethane, and methane were detected at most sampled locations, including those near the source areas and closer to the edge of the plumes. This suggests that reductive dechlorination is proceeding to completion in at least some areas of both plumes.

In summary, results of the preliminary U.S. EPA score sheet screening shown in Table 8 indicate that there is adequate evidence that natural attenuation of VOCs is occurring via reductive biodegradation at the Site in both the AOC 1 – South Court plume and the former WWTP Area plume.

## 7. Statistical Analysis

The required statistical data evaluation is presented in Section 4 of the Site-Wide Groundwater Monitoring Plan (Monitoring Plan, AECOM, 2010) and includes the following required elements:

- The statistical evaluation is to be conducted to determine whether the contaminant plumes are stable (i.e., not increasing over time).
- The principal VOC compounds to be considered in the evaluation are TCE, cis-1,2-DCE and vinyl chloride.
- The evaluation of stability is to be carried out using the Mann-Kendall trend test following IDEM Risk Integrated System of Closure guidance (IDEM, February 15, 2001). Notably:
  - A minimum of 4 samples is required to perform the trend test.
  - A minimum detection frequency of 75 percent is required to perform the trend test.
  - Non-detects should be assigned a value below the lowest detected value in the data set.
  - Any field duplicate results should be averaged prior to carrying out statistical testing.
- Trend testing is to be carried out using a significance level of ( $\alpha$ ) 0.10 (i.e., 90 percent confidence).
- A one-tailed trend test is to be performed (i.e., testing for increases only), using the following statistical hypotheses:
  - Null (no effect) hypothesis ( $H_0$ ) = there is no trend or a decreasing trend in chemical concentrations over time.
  - Alternative hypothesis ( $H_A$ ) = there is an increasing trend over time in chemical concentrations.

The following subsections describe the specific approaches used in carrying out the statistical data evaluation. The data considered in the trend tests are presented in concentration vs. time graphs in Appendix D, and in tabular format in Table D-1.



## 7.1 Mann-Kendall Test

Methods for statistical trend testing of groundwater quality data are discussed in Section 4.3 of U.S. EPA (2006), Chapter 12 of Helsel & Hirsch (USGS, 2002) and other relevant guidance and reference texts. The evaluation of trends in environmental data is often complicated by factors such as seasonality in data, outlying (grossly atypical) data points, the presence of censored (non-detect) data, small data sets (due to the relatively high costs associated with sample collection and analysis, particularly for trace concentration analyses) and non-linearity in any patterns present through time. Different tests exist, which balance the statistical power of detecting trends against susceptibility to outliers, deviations from model assumptions (e.g., linearity) and the ability to incorporate non-detect data into the analyses.

The Mann-Kendall trend test is suitable for general application across a variety of environmental data applications. This test is non-parametric (rank-based) and, therefore, robust with respect to outlying observations. The Mann-Kendall test neither assumes a particular data distribution (e.g., normal) nor data pattern tested (e.g., linear trend), but rather tests for a monotonic (single-direction) trend in the data over time. Although the test is not as powerful as parametric tests are under optimal conditions, its wide range of applicability makes it a good candidate for use when testing numerous data sets where the effort required for detailed characterization and selection of specific trend tests on a case-by-case basis is not appropriate.

As specified in the Groundwater Monitoring Plan, the Mann-Kendall trend test was used to evaluate the principal VOC monitoring data for the presence of temporal trends. Computational details for the test may be found in Section 4.3.4.1 of U.S. EPA (2006). The test was applied for data sets containing up to 25 percent non-detects using a one-tailed formulation and a significance level of 0.1, as described above.

Trend tests were carried out separately for each principal VOC at each monitoring well with sufficient temporal data to perform the Mann-Kendall test.

One assumption of the Mann Kendall trend test is that subsequent samples are reasonably equally spaced through time. In the VOC data sets considered, this assumption was generally well met, with regular monitoring having occurred on a consistent basis through time at most of the wells. However, it was noted that at wells MW 15 and MW 21, there was a change in sampling frequency and a temporal gap in the monitoring record. Where sampling was more frequent, data were combined into annual averages and in cases where larger temporal gaps in the monitoring record were present, additional testing was performed using group comparison tests (another method presented in Chapter 12 of USGS, 2002) to evaluate whether the presence of these gaps could be obscuring the detection of significant trends. Parametric Student's t-tests were carried out comparing recent (2013 – 2016) to historical (2005 – 2008) data.

It was noted in two cases, TCE at MW 31R and vinyl chloride at MW 3, non-detect results were present at somewhat-elevated detection limits above the majority of the detected values. In such cases, the comparison of non-detect and detected values is ambiguous (i.e., it cannot be assigned with certainty that the non-detect results are above or below the detected values). In these cases, trend testing was performed excluding the non-detect results, as noted in the table of results in Table 9. Current statistical guidance (e.g., U.S. EPA, 2013) would recommend that any detected



values lower than the maximum detection limit for a non-detect be "censored" to that detection limit (i.e., all lower values be considered as non-detects). However, doing so would have reduced the detection frequency to much less than the 75 percent required in the Groundwater Monitoring Plan, and therefore carrying out the trend tests using detected values only permits an appropriate assessment with minimal information loss (i.e., removing a few ambiguous non-detects vs. censoring the majority of the data).

## 7.2 Outlier Testing

Prior to carrying out trend tests, each data set was screened for the presence of statistical outliers. An outlier is an observation that differs substantially (atypically) from the rest of the population.

Outliers may be identified by graphical or statistical methods. U.S. EPA (2006, 2009) recommends The Extreme Value Test (Dixon's Test) for testing for outliers in data sets containing up to 25 points (the upper limit of this procedure), which was the case for all monitoring data sets evaluated. Dixon's test considers both extreme low values and extreme high values. An important element of assessing outliers is identifying the underlying data distribution of a particular data set prior to performing the test. The data may follow a normal (Gaussian) distribution, in which case the original (untransformed) data are subjected to the outlier test. However, if a data set follows another statistical distribution, (i.e., gamma or lognormal) the data must be transformed prior to using Dixon's test. In testing data distributions for the principal VOC data sets considered, the Shapiro-Wilk W-Test (U.S. EPA, 2006, 2009) was applied using original, cube-root-transformed [approximating the gamma distribution (USGS, 2002)], and log-transformed data sets.

Consistent with the requirements of the Groundwater Monitoring Plan for trend testing, outlier tests were performed only for datasets of four or more points and having 75 percent or more detected values. Outlier testing was performed using a significance level ( $\alpha$ ) of 0.05 (i.e., 95 percent confidence).

The results of the data distribution and outlier tests are presented in Table D-2. Statistical outliers were identified for cis-1,2-DCE at MW-4, MW 8, MW 14, and MW 31R; and for vinyl chloride at MW 8, as indicated in the Table D-2.

Where statistically-significant outliers were identified, trend testing was carried out twice; first considering all data and second using outlier-excluded data sets. In all cases, the results of the trend tests (i.e., increasing or no trend identified) were consistent both with and without the outliers. Therefore, the presence of statistical outliers in the principal VOC data sets has not impaired the ability of the present statistical evaluation to identify significant temporal trends, where present in the monitoring data.

## 7.3 Results

The results from the Mann-Kendall trend test are shown in Table 9. The data used in the trend tests are shown in Table D-1 and a summary of descriptive statistics are shown in Table D-2 of Appendix D, along with the data distribution and outlier testing results.

Of 123 data sets originally considered (three primary VOCs at each of 39 monitoring wells and 2 surface water locations) and evaluated, 78 did not require trend analysis due to high frequencies of





non-detects (i.e., less than 75 percent detects) and three did not require trend analysis due to insufficient data (MW 97R-16). The remaining 42 data sets were subjected to the Mann-Kendall trend test. Of these, 33 had no statistically significant trend (i.e., groundwater VOC concentrations are stable or decreasing over time), and nine datasets had significant increasing trends (at a 90 percent confidence level). Monitoring well MW 76 was not sampled during the 2016 monitoring event.

Comparing the results to those from the previous (2015) evaluation, one change was observed in the results:

cis-1,2-DCE concentrations at MW-4 were observed to have no trend compared to an increasing trend observed in 2015.

Consistent with 2015 data, there are two increasing trends in the AOC 1 – South Court plume wells. Increasing trends are noted for cis-1,2-DCE at MW 49 and MW 79. Increasing trends continue in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to vinyl chloride within and along the tail margin of the plume (MW 28, MW 41, MW 58, MW 64, MW 66, and MW 81). An increasing trend for TCE is also noted at MW 68.

The increasing trend in TCE concentrations at MW 68 is based on data from 2005 to 2016. However, when the same trend analysis is performed using only the last seven years of data (i.e., 2010 – 2016), the data set indicates that there is no statistically significant trend and that the TCE concentrations have been stable.

Group comparison tests were carried out at well MW 15. Data distributions were assessed prior to the test and found that TCE and cis-1,2-DCE recent and historical concentrations were normally distributed, therefore the Student's t-test was used. Normality assumptions were violated for the recent vinyl chloride data due to the presence of non-detects, therefore the non-parametric Wilcoxon Rank-Sum test was performed in conjunction with the parametric Student's t-test. The results of the group comparison tests confirm the Mann-Kendall trend test results.

## 8. Conclusions

Based on the 2016 Annual Groundwater Monitoring activities, including all field and laboratory analytical data generated therefrom, the following conclusions have been developed.

1. Unit 3S potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general northeasterly gradient in Unit 3S beneath the central and north portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable. Data from the October event again indicates the presence of a prominent groundwater mound, or ridge, in Unit 3S that extends in a north-south arc from the MW 46 area on the south to MW 29 on the north.
2. Groundwater monitoring of the wells along the groundwater mound between the South Court Area and WWTP Area plumes confirms that the VOC plumes remain separate from one another.



3. The Unit 3D potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the west portion of the Site and a general westerly gradient across the east portion of the Site into the Meltwater Valley.
4. The bedrock aquifer potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general easterly gradient across the Site.
5. There is now no significant increasing trend in the cis-1,2-DCE concentration at WWTP plume monitoring well MW-4. The other observed trends in the 2016 TCE, cis-1,2-DCE and vinyl chloride concentrations were consistent with the assessment conducted in 2015.
6. Consistent with 2015 data, there are two increasing trends in the AOC 1 – South Court plume wells. Increasing trends are noted for cis-1,2-DCE at MW 49 and MW 79. Downgradient of MW 49 (east-northeast and east), MW 46 and MW 89-11 were either non-detect or exhibited only very low concentrations of VOCs, respectively. In October 2016 the extent of the AOC 1 – South Court plume remained defined on the east side with non-detect or low level estimated concentrations for all VOC constituents at monitoring wells MW 16, MW 37, MW 46, and MW 84. At the north perimeter boundary of the AOC 1 – South Court plume, cis-1,2-DCE was detected at an estimated concentration below the associated laboratory limit at Unit 3D monitoring well MW 75. MW 76 could not be sampled during the October 2016 sampling event and therefore the north perimeter boundary of the AOC 1 – South Court plume in Unit 3S could not be confirmed in 2016.
7. Increasing trends continue in several monitoring wells in the former WWTP Area plume. Most of the increasing trends relate to vinyl chloride within and along the tail margin of the plume (MW 28, MW 41, MW 58, MW 64, MW 66, and MW 81). An increasing trend for TCE is also noted MW 68. The increasing trend in TCE concentrations at MW 68 is based on data from 2006 to 2016. However, when the same trend analysis is performed using only the last seven years of data (i.e., 2010 – 2016), the data set indicates that there is no statistically significant trend and that the TCE concentrations have been stable. In 2016, perimeter monitoring wells MW-2, MW 56, MW 61, MW 86, and MW 88 were either non detect or contained very low estimated concentrations of vinyl chloride (MW 61 and MW 86) detected below the laboratory limit. Monitoring wells MW 58, MW 66 and MW 64 with increasing concentrations of vinyl chloride are expected to represent the eastern extent of the WWTP Area plume given the western direction of groundwater flow east of these wells.
8. Results of the preliminary U.S. EPA score sheet screening and the presence of daughter products in the groundwater indicate that natural attenuation of VOCs is occurring at the Site in both the AOC 1 – South Court plume and the former WWTP Area plume.
9. Three surface water sampling events were conducted in 2016 (April, July, and October) at the Pond Intake and Pond North surface water monitoring locations at the Meadowbrook Golf Course central irrigation pond. Cis-1,2-DCE, trans-1,2-DCE and vinyl chloride were detected at surface water monitoring locations Pond North and Pond Intake during one or more surface water sampling event conducted in 2016. The detected concentrations of vinyl chloride at the Pond North and Pond Intake sampling locations exceeded the relevant screening criteria (i.e., recreator). No other parameters were detected above relevant screening criteria at surface water monitors Pond North or Pond Intake.



10. Based on monitoring at adjacent monitoring well MW 85 and MW 97R-16, the golf course irrigation pond appears to be within the former WWTP Area plume.
11. Based on the 2016 groundwater results from residential well MW 89-11, there is no current unacceptable risk to nearby residents due to groundwater volatilization to indoor air.

## 9. Recommendations

The following recommendations are provided with respect to ongoing monitoring:

1. It is recommended that sampling for NA parameters be continued in 2017 at the following wells: MW-2, MW 3, MW-4, MW 8, MW 15, MW 21, MW 31R, MW 40, MW 49, MW 57, MW 58, MW 64, MW 66, MW 68, MW 79, MW 85 and MW89-11. The proposed NA well network is comprised of wells where historical NA data exists, wells along the groundwater flow paths, and/or wells with recent or long term increasing VOC trends.
2. It is recommended that monitoring well MW-7 be added to the annual monitoring program to monitor the groundwater quality along the east Site boundary.

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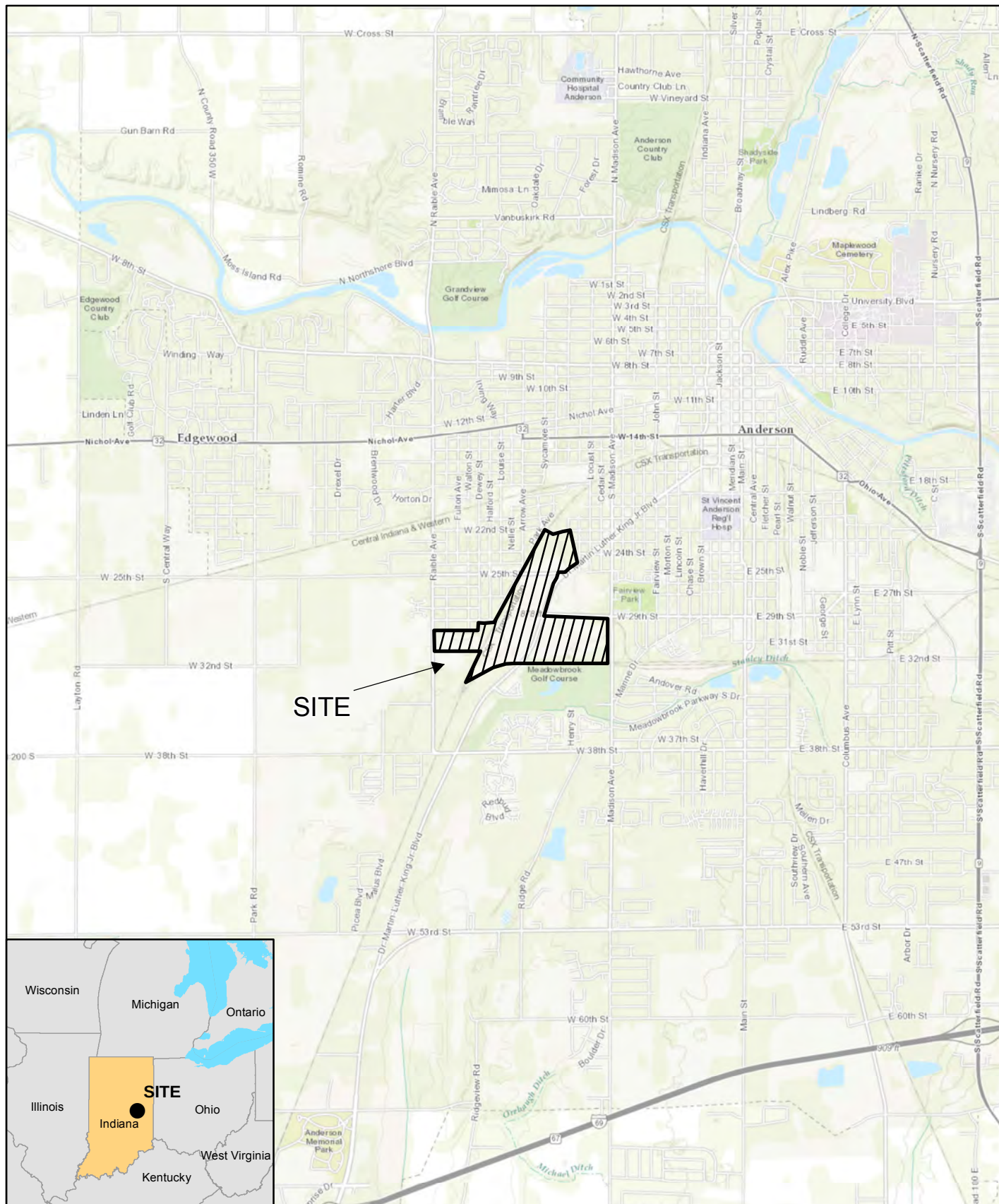
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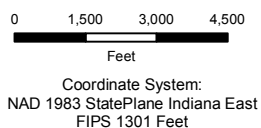
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## Figures





Source: ESRI Topographic Map, accessed 2015. ESRI Base Data, 2008.

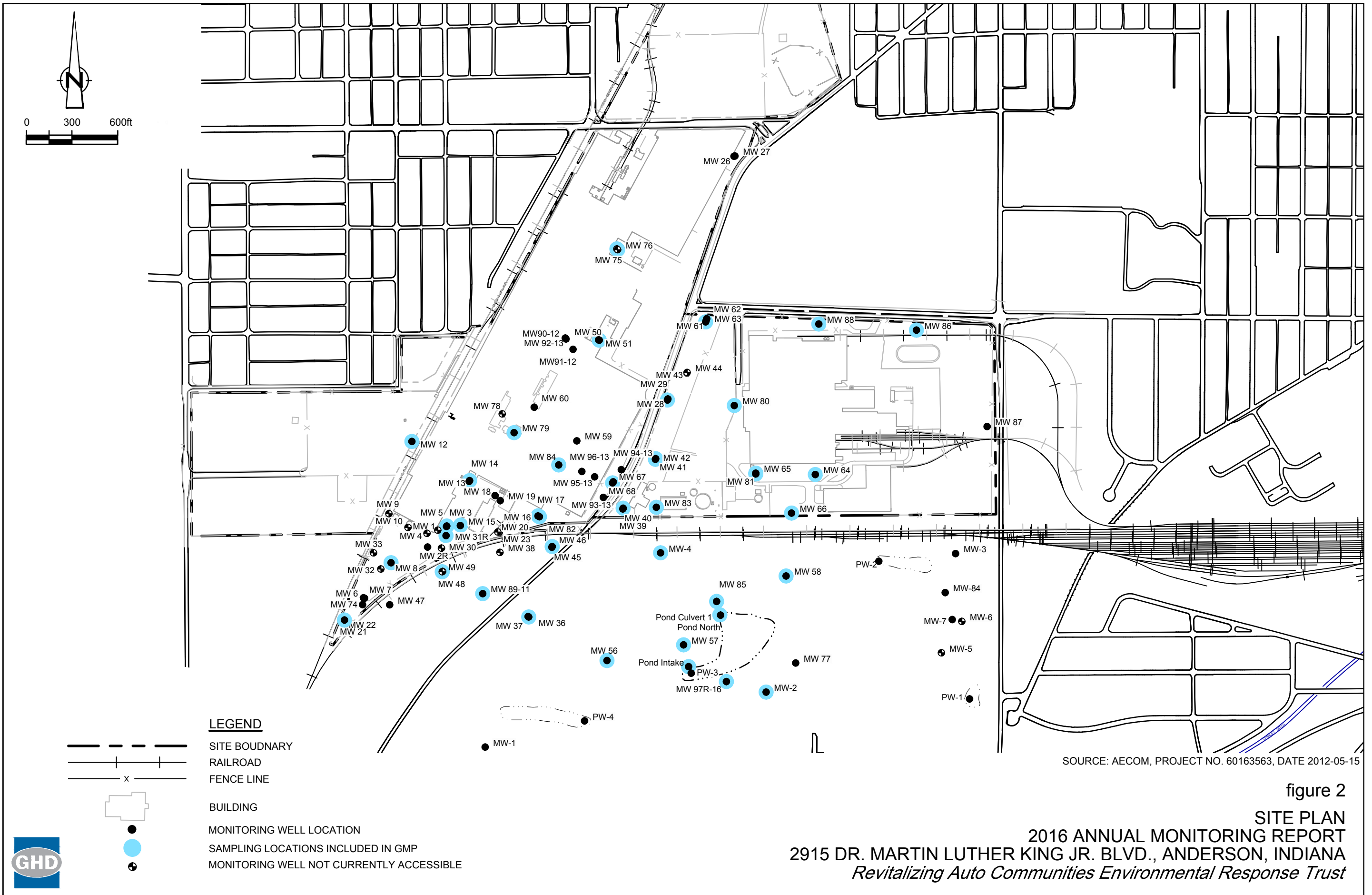


2915 DR. MARTIN LUTHER KING  
JR. BOULEVARD, ANDERSON, INDIANA  
2016 ANNUAL MONITORING REPORT

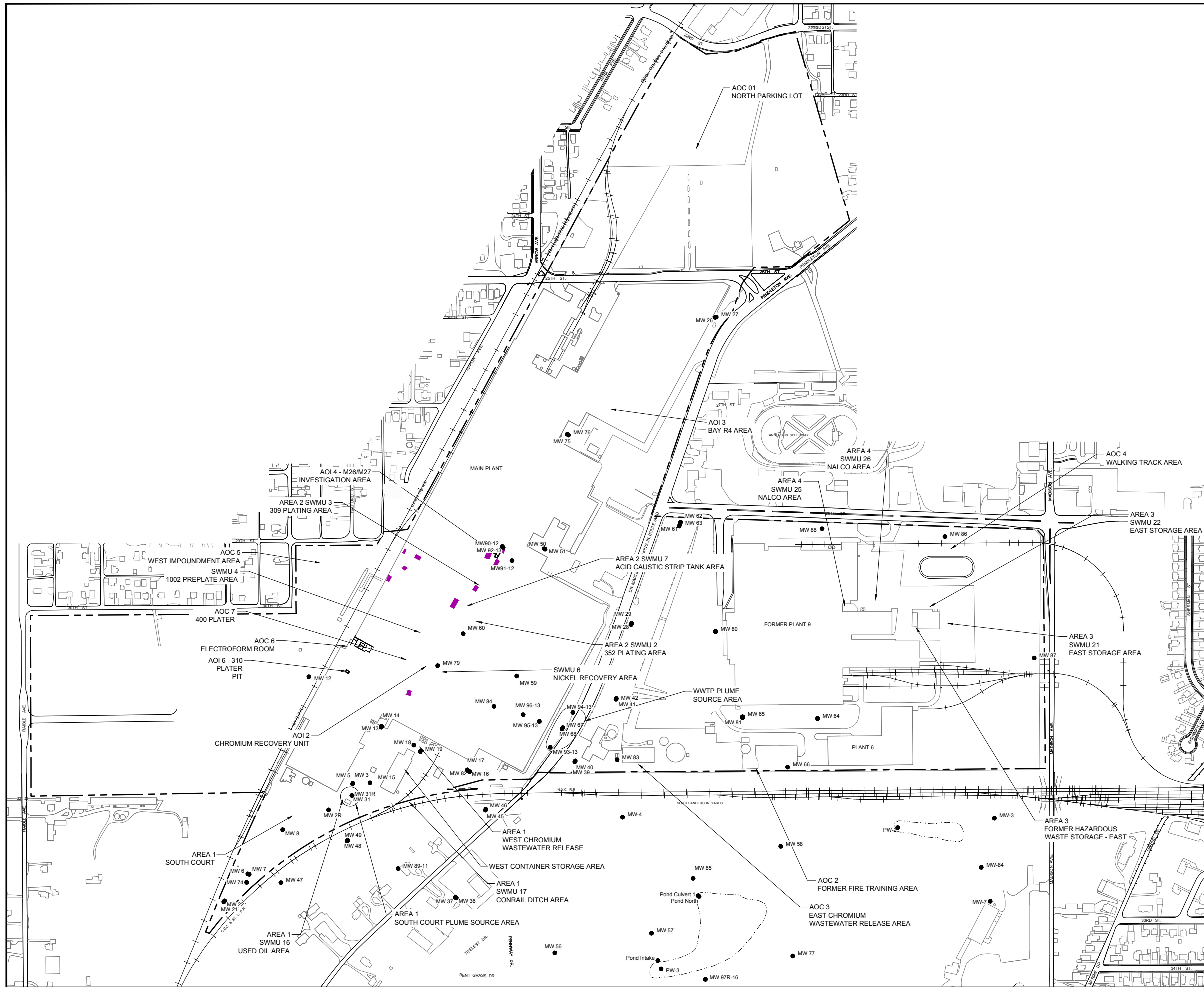
017302-07  
Dec 1, 2016

SITE LOCATION MAP

FIGURE 1







  
0 100 250ft

**LEGEND**

--- SITE BOUNDARY  
--- RAILROAD  
--- FENCE LINE

M.H.   
C.B.   
● MW 51  
■ AOI 5 AREA OF STAINED SOIL BENEATH CONCRETE

BUILDING  
MANHOLE  
CATCHBASIN  
MONITORING WELL LOCATION  
AOI 5 AREA OF STAINED SOIL BENEATH CONCRETE

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



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ANDERSON, INDIANA

2016 ANNUAL MONITORING REPORT

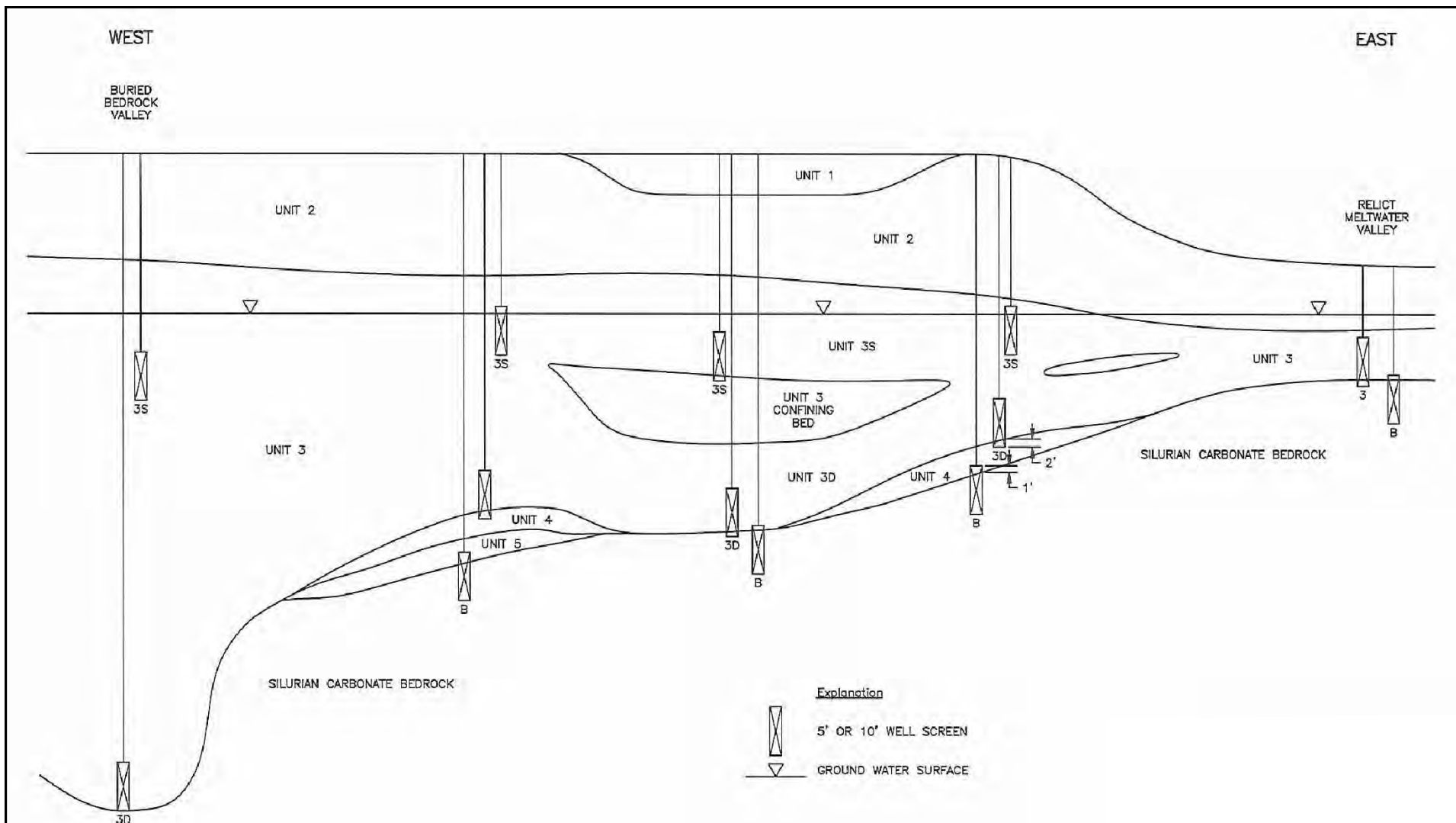
AREAS OF INTEREST



Source Reference:  
CITY OF ANDERSON, INDIANA NAD83 SPCS 1301 IN East zone in US survey Ft

|                           |                           |                         |
|---------------------------|---------------------------|-------------------------|
| Project Manager:<br>R. C. | Reviewed By:<br>R. C.     | Date:<br>DECEMBER 2016  |
| Scale:<br>1" = 250'       | Project No:<br>017302-T07 | Report No:<br>050       |
|                           |                           | Drawing No:<br>figure 3 |

017302-T07(050)GN-SC001 JAN 18, 2017



SOURCE: AECOM PROJECT # 60135322, DATE 01-11, FIG 2-3

figure 4

GENERALIZED HYDROGEOLOGIC CROSS SECTION SHOWING WELL COMPLETION ZONES

2016 ANNUAL MONITORING REPORT

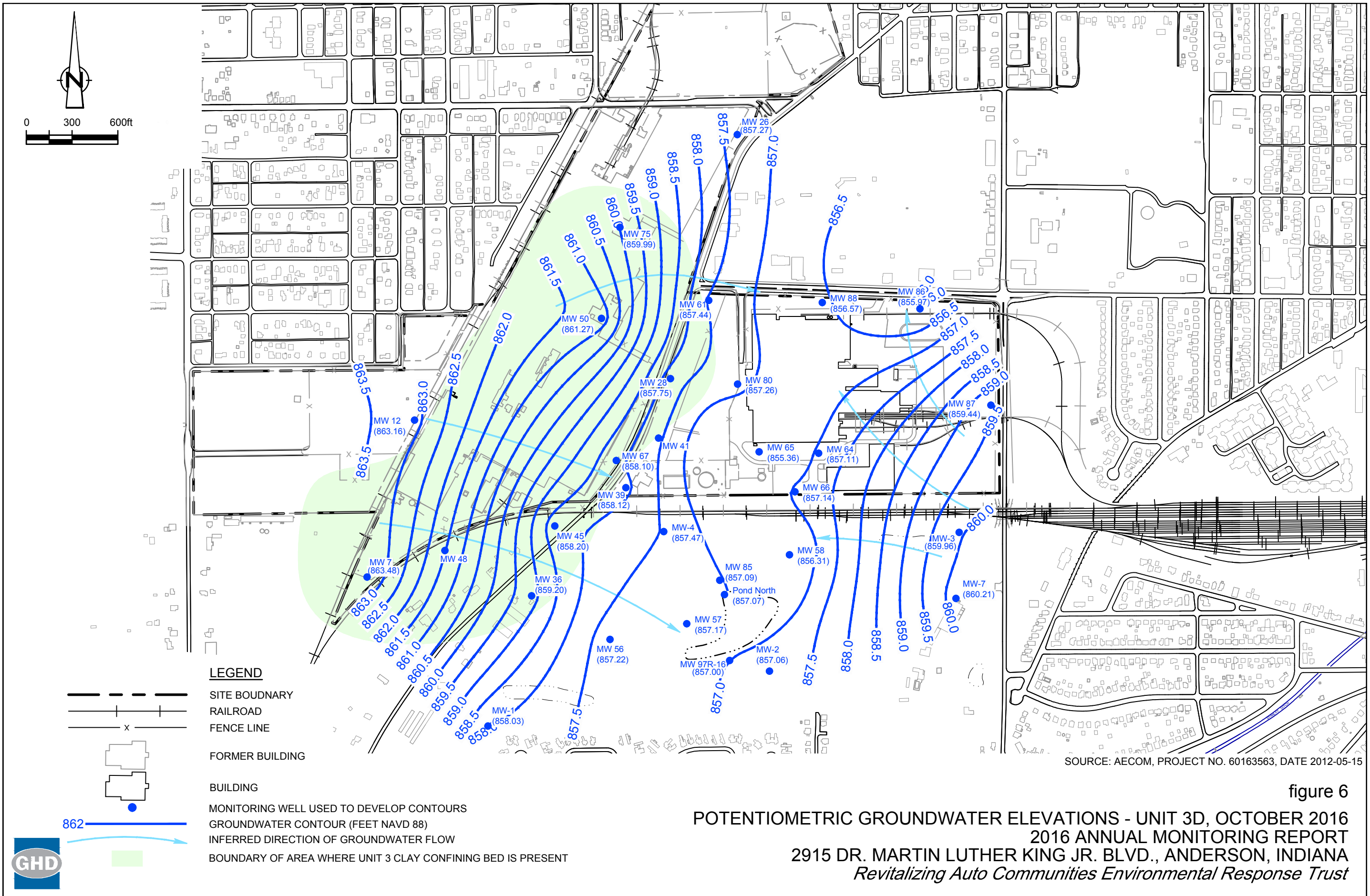
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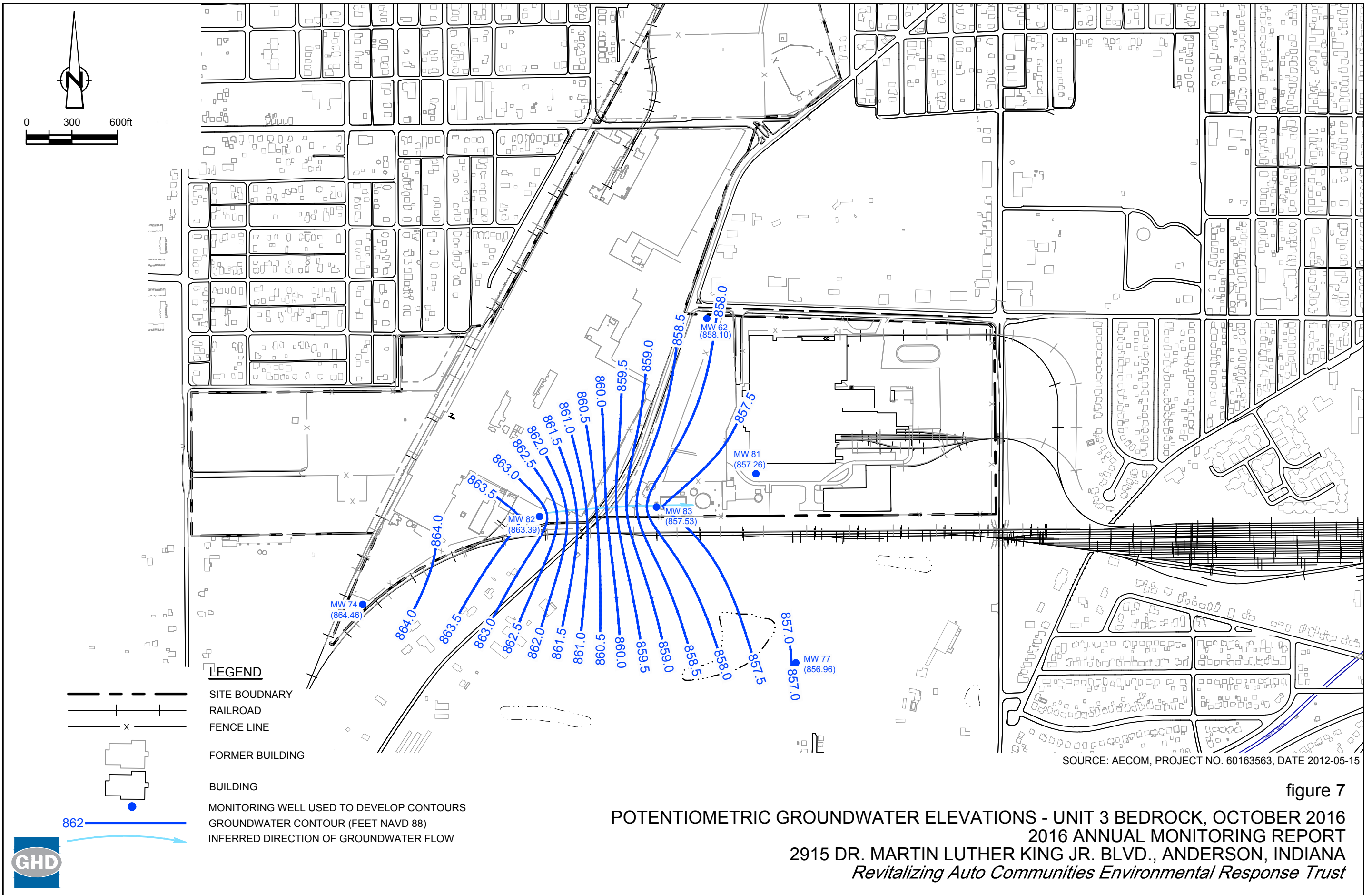
*Revitalizing Auto Communities Environmental Response Trust*



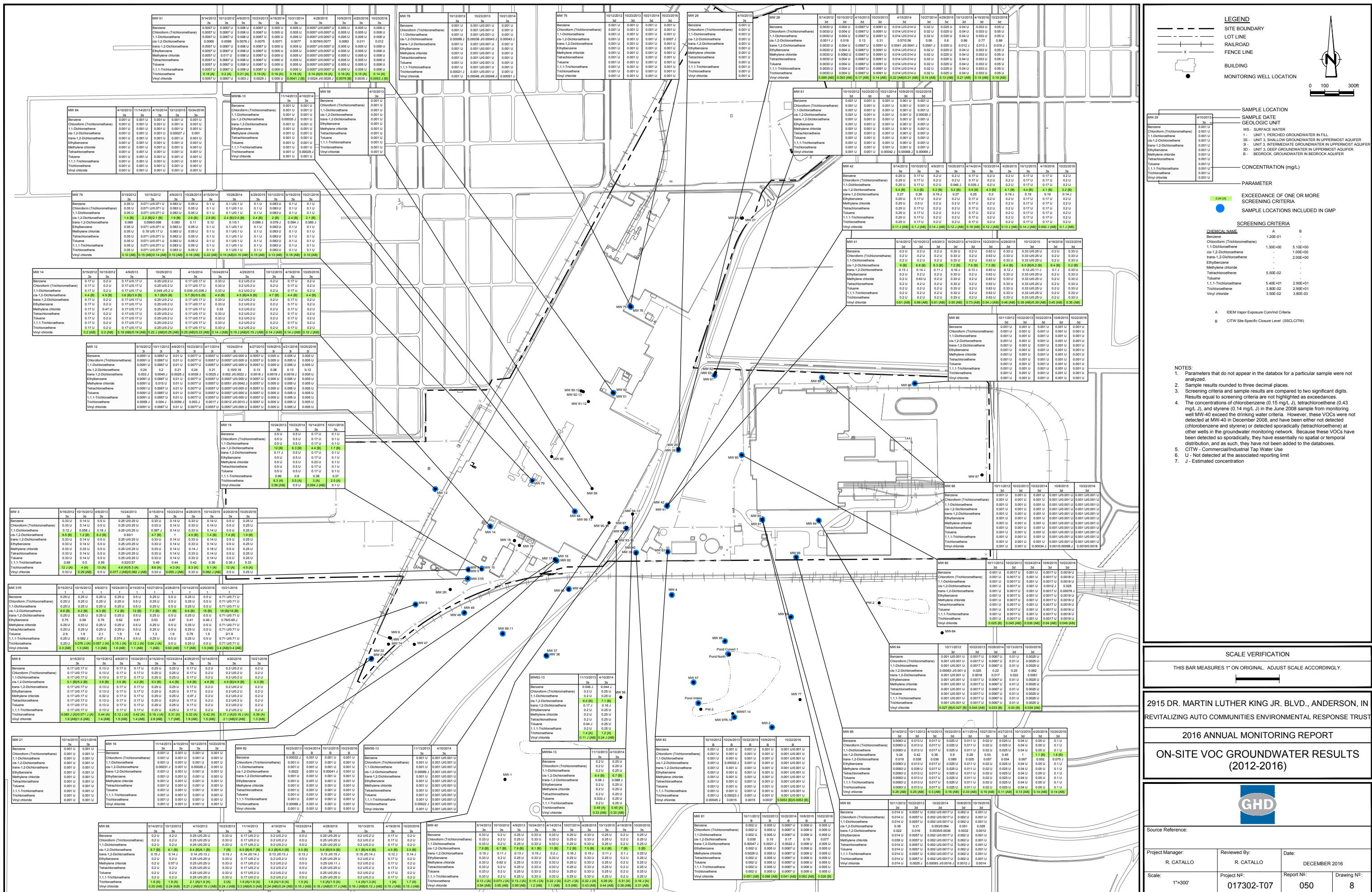












| Pond Month                       | 5/6/2016            | 8/2/2016            | 10/6/2016 | 4/12/2017 | 7/17/2017           | 10/29/2017 | 4/16/2018 | 7/17/2018  | 10/29/2018 | 4/27/2019  | 7/10/2019  | 10/20/2019  | 4/22/2020   | 7/19/2020         | 10/24/2020 |
|----------------------------------|---------------------|---------------------|-----------|-----------|---------------------|------------|-----------|------------|------------|------------|------------|-------------|-------------|-------------------|------------|
|                                  | WS                  | WS                  | WS        | WS        | WS                  | WS         | WS        | WS         | WS         | WS         | WS         | WS          | WS          | WS                | WS         |
| Benzene                          | 0.001 U/001 U       | 0.001 U/001 U       | 0.0029 U  | 0.001 U   | 0.001 U/001 U       | 0.001 U    | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Chlorobenzene (Trichlorobenzene) | 0.001 U/001 U       | 0.001 U/001 U       | 0.001 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| 1,1-Dichloroethene               | 0.001 U/001 U       | 0.001 U/001 U       | 0.001 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| 1,2-Dichloroethene               | 0.0220 U            | 0.0040 U/0.01       | 0.035     | 0.01      | 0.0232 U/0.03       | 0.0063 U   | 0.11 (AR) | 0.25 (AR)  | 0.31 (AR)  | 0.26 (AR)  | 0.09 (AR)  | 0.035       | 0.12 (AR)   | 0.09 (AR)         | 0.1 (AR)   |
| Chloroethene                     | 0.00001 U/0.00001 U | 0.00001 U/0.00001 U | 0.00046 U | 0.0001 U  | 0.00001 U/0.00001 U | 0.00001 U  | 0.00001 U | 0.00001 U  | 0.00001 U  | 0.00001 U  | 0.00001 U  | 0.00001 U   | 0.00001 U   | 0.00001 U         | 0.00001 U  |
| ethylene                         | 0.001 U/001 U       | 0.001 U/001 U       | 0.0029 U  | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Methylene chloride               | 0.001 U/001 U       | 0.001 U/001 U       | 0.004 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Trichloroethene                  | 0.001 U/001 U       | 0.001 U/001 U       | 0.001 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Toluene                          | 0.001 U/001 U       | 0.001 U/001 U       | 0.0029 U  | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| 1,1-Trichloroethane              | 0.001 U/001 U       | 0.001 U/001 U       | 0.001 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Trichloroethane                  | 0.001 U/001 U       | 0.001 U/001 U       | 0.001 U   | 0.001 U   | 0.001 U/001 U       | 0.0033 U   | 0.0033 U  | 0.01 U     | 0.008 U    | 0.008 U    | 0.0033 U   | 0.004 U     | 0.006 U     | 0.0025 U/0.0025 U | 0.033 U    |
| Vinyl chloride                   | 0.014 (AR)          | 0.014 (AR)          | 0.01 (AR) | 0.01 (AR) | 0.014 (AR)          | 0.033 (AR) | 0.09 (AR) | 0.033 (AR) | 0.014 (AR) | 0.019 (AR) | 0.009 (AR) | 0.0077 (AR) | 0.0047 (AR) | 0.0078 (AR)       | 0.004 (AR) |

| WW 58                         | 10/16/2015<br>3d          | 10/29/2015<br>3d | 10/29/2014<br>3d | 10/20/2015<br>3d          | 10/25/2016<br>3d |
|-------------------------------|---------------------------|------------------|------------------|---------------------------|------------------|
| Benzene                       | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Chloroform (Trichloromethane) | 0.005 10.0057 U           | 0.002 U          | 0.003 U          | 0.005 10.005 U            | 0.0 U            |
| 1,1-Dichloroethene            | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| 1,2-Dichloroethene            | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0280 0.028              | 1.1 (ACB)        |
| 1,1,2-Trichloroethene         | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Ethylbenzene                  | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Methylene chloride            | 0.0093 10.012 U           | 0.002 U          | 0.0042 U         | 0.0057 10.005 U           | 0.0 U            |
| Trichloroethene               | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Toluene                       | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| 1,1,1-Trichloroethane         | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Trichloroethane               | 0.005 10.0057 U           | 0.002 U          | 0.0033 U         | 0.0057 10.005 U           | 0.0 U            |
| Vinyl chloride                | 0.16 (ACBCE) 0.16 (ACBCE) | 0.11 (ACBCE)     | 0.06 (ACBCE)     | 0.16 (ACBCE) 0.15 (ACBCE) | 0.065 (ACBCE)    |

| MW97-14                       | 11/24/2014      | 10/20/2015 |
|-------------------------------|-----------------|------------|
|                               | 3d              | 3d         |
| Benzene                       | 0.001 U/0.001 U | 0.001 U    |
| Chloroform (Trichloromethane) | 0.001 U/0.001 U | 0.001 U    |
| 1,1-Dichloroethene            | 0.001 U/0.001 U | 0.001 U    |
| cis-1,2-Dichloroethene        | 0.001 U/0.001 U | 0.001 U    |
| trans-1,2-Dichloroethene      | 0.001 U/0.001 U | 0.001 U    |
| Ethylbenzene                  | 0.001 U/0.001 U | 0.001 U    |
| Methylene chloride            | 0.001 U/0.001 U | 0.001 U    |
| Tetrachloroethene             | 0.001 U/0.001 U | 0.001 U    |
| Toluene                       | 0.001 U/0.001 U | 0.001 U    |
| 1,1,1-Trichloroethane         | 0.001 U/0.001 U | 0.001 U    |
| Trichloroethene               | 0.001 U/0.001 U | 0.001 U    |
| Vinyl chloride                | 0.001 U/0.001 U | 0.001 U    |

| MW-7                          | 10/29/2014<br>3d |
|-------------------------------|------------------|
| Benzene                       | 0.001 U          |
| Chloroform (Trichloromethane) | 0.001 U          |
| 1,1-Dichloroethene            | 0.001 U          |
| cis-1,2-Dichloroethene        | 0.001 U          |
| trans-1,2-Dichloroethene      | 0.001 U          |
| Ethylbenzene                  | 0.001 U          |
| Methylene chloride            | 0.001 U          |
| Tetrachloroethene             | 0.001 U          |
| Toluene                       | 0.001 U          |
| 1,1,1-Trichloroethane         | 0.001 U          |
| Trichloroethene               | 0.001 U          |
| Vinyl chloride                | 0.001 U          |

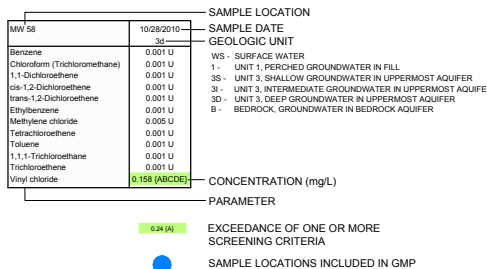
| MW 97R-16                     | 10/25/2016 |
|-------------------------------|------------|
|                               | 3d         |
| Benzene                       | 0.001 U    |
| Chloroform (Trichloromethane) | 0.001 U    |
| 1,1-Dichloroethene            | 0.001 U    |
| cis-1,2-Dichloroethene        | 0.0012     |
| trans-1,2-Dichloroethene      | 0.001 U    |
| Ethylbenzene                  | 0.001 U    |
| Methylene chloride            | 0.001 U    |
| Tetrachloroethene             | 0.001 U    |
| Toluene                       | 0.001 U    |
| 1,1,1-Trichloroethane         | 0.001 U    |
| Trichloroethene               | 0.001 U    |
| Vinyl chloride                | 0.001 U    |

| MW ST                         | 10/16/2012   | 10/23/2012   | 10/23/2012   | 10/23/2012    | 10/24/2012   |
|-------------------------------|--------------|--------------|--------------|---------------|--------------|
|                               | 3d           | 3d           | 3d           | 3d            | 3d           |
| Benzene                       | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Chloroform (Trichloromethane) | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| 1,1-Dichloroethene            | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| cis-1,2-Dichloroethene        | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| trans-1,2-Dichloroethene      | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Ethylbenzene                  | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Methylene chloride            | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Tetrachloroethene             | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Toluene                       | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| trans-1,4-Dichlorobenzene     | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| trans-1,4-Dichlorobenzene     | 0.001 U      | 0.001 U      | 0.001 U      | 0.001 U       | 0.002 U      |
| Vinyl chloride                | 0.002 (ABDE) | 0.002 (ABDE) | 0.013 (ABDE) | 0.0037 (ABDE) | 0.046 (ABDE) |

| Pond Intake                   | 5/6/2012    | 8/2/2012   | 10/6/2012 | 4/12/2013 | 7/17/2013  |
|-------------------------------|-------------|------------|-----------|-----------|------------|
|                               | WS          | WS         | WS        | WS        | WS         |
| Benzene                       | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Chloroform (Trichloromethane) | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1-Dichloroethene            | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| cis-1,2-Dichloroethene        | 0.0063      | 0.00072 J  | 0.0026    | 0.0066    | 0.017      |
| trans-1,2-Dichloroethene      | 0.00027 J   | 0.001 U    | 0.001 U   | 0.00022 J | 0.00062 J  |
| Ethylbenzene                  | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Methylchloroethene            | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Toluene                       | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1,1-Trichloroethane         | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1,2-Trichloroethane         | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Vinyl chloride                | 0.003 J ASD | 0.0048 ASD | 0.00097 J | 0.004 ASD | 0.0048 ASD |

| HW-2                         | 10/16/2012 | 10/29/2013      | 10/29/2014 | 10/19/2015 | 10/24/2016 |
|------------------------------|------------|-----------------|------------|------------|------------|
|                              | 3d         | 3d              | 3d         | 3d         | 3d         |
| Benzene                      | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Chloroform (Trichloroethane) | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| 1,1-Dichloroethene           | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| trans-1,2-Dichloroethene     | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Ethylbenzene                 | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Methylene chloride           | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Tetrachloroethene            | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Isobutene                    | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| 1,1,1-Trichloroethane        | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Trichloroethene              | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |
| Vinyl chloride               | 0.001 U    | 0.001 U/0.001 U | 0.001 U    | 0.001 U    | 0.001 U    |

| Pond Intake                   | 5/6/2012    | 8/2/2012   | 10/6/2012 | 4/12/2013 | 7/17/2013  |
|-------------------------------|-------------|------------|-----------|-----------|------------|
|                               | WS          | WS         | WS        | WS        | WS         |
| Benzene                       | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Chloroform (Trichloromethane) | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1-Dichloroethene            | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| cis-1,2-Dichloroethene        | 0.0063      | 0.00072 J  | 0.0026    | 0.0066    | 0.017      |
| trans-1,2-Dichloroethene      | 0.00027 J   | 0.001 U    | 0.001 U   | 0.00022 J | 0.00062 J  |
| Ethylbenzene                  | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Methylchloroethene            | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Toluene                       | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1,1-Trichloroethane         | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| 1,1,2-Trichloroethane         | 0.001 U     | 0.001 U    | 0.001 U   | 0.001 U   | 0.001 U    |
| Vinyl chloride                | 0.003 J ASD | 0.0048 ASD | 0.00097 J | 0.004 ASD | 0.0048 ASD |

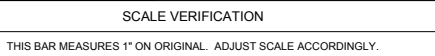


| SCREENING CRITERIA            |          |          |          |          |          |
|-------------------------------|----------|----------|----------|----------|----------|
| CHEMICAL NAME                 | A        | B        | C        | D        | E        |
| Benzene                       | 5.00E-03 | 2.40E-02 | 1.20E-01 |          |          |
| Chloroform (Trichloromethane) | 8.00E-02 |          |          |          |          |
| 1,1-Dichloroethene            | 3.00E-01 | 1.30E+00 | 2.41E+01 | 5.10E+00 |          |
| cis-1,2-Dichloroethene        | 7.80E-02 |          | 1.00E+00 |          |          |
| trans-1,2-Dichloroethene      | 1.00E-01 |          | 1.00E+01 | 2.00E+00 |          |
| Ethylbenzene                  | 7.00E-01 |          |          |          |          |
| Methylene chloride            | 5.00E-02 |          |          |          |          |
| Tetrachloroethene             | 1.00E-01 | 1.10E-02 | 5.00E-02 |          |          |
| Toluene                       | 1.00E+00 |          |          |          |          |
| 1,1,1-Trichloroethane         | 2.00E-01 | 1.30E+01 | 5.40E+01 | 8.19E+02 | 3.80E+01 |
| 1,1,2-Trichloroethane         | 9.00E-03 | 3.00E-02 |          | 1.27E-01 | 2.50E-01 |
| Vinyl chloride                | 2.00E-01 | 2.00E-03 | 3.50E-02 | 4.84E-04 | 2.00E-03 |

- A IDEM Residential Tap Water
- B IDEM Vapor Exp Residential Criteria
- C IDEM Vapor Exp Comm/Ind Criteria
- D RCR Site-Specific Closure Level (SSCLRCR)
- E CITW Site-Specific Closure Level (SSCLCITW)

NOTES:

1. Parameters that do not appear in the databox for a particular sample were not analyzed.
2. Sample results rounded to three decimal places.
3. Screening criteria and sample results are compared to two significant digits. Results equal to screening criteria are not highlighted as exceedances.
4. RCR - Recreator (Resident Swimming Pool)
5. CITW - Commercial/Industrial Tap Water Use
6. U - Not detect at the associated reporting limit
7. J - Estimated concentration



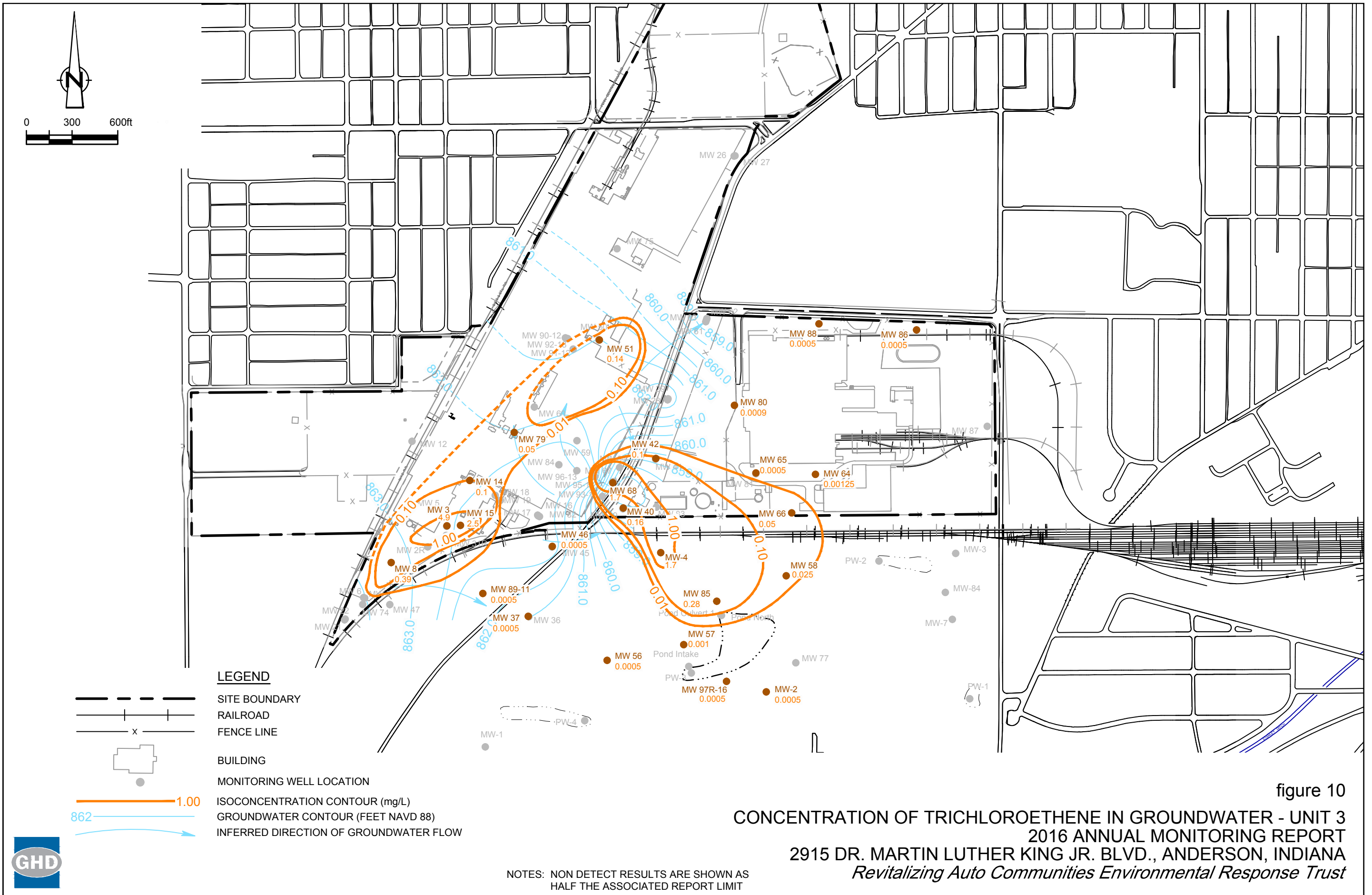
2915 DR. MARTIN LUTHER KING JR. BLVD., ANDERSON, IN  
REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

|                                                               |
|---------------------------------------------------------------|
| 2016 ANNUAL MONITORING REPORT                                 |
| OFF-SITE VOC GROUNDWATER/SURFACE<br>WATER RESULTS (2012-2016) |

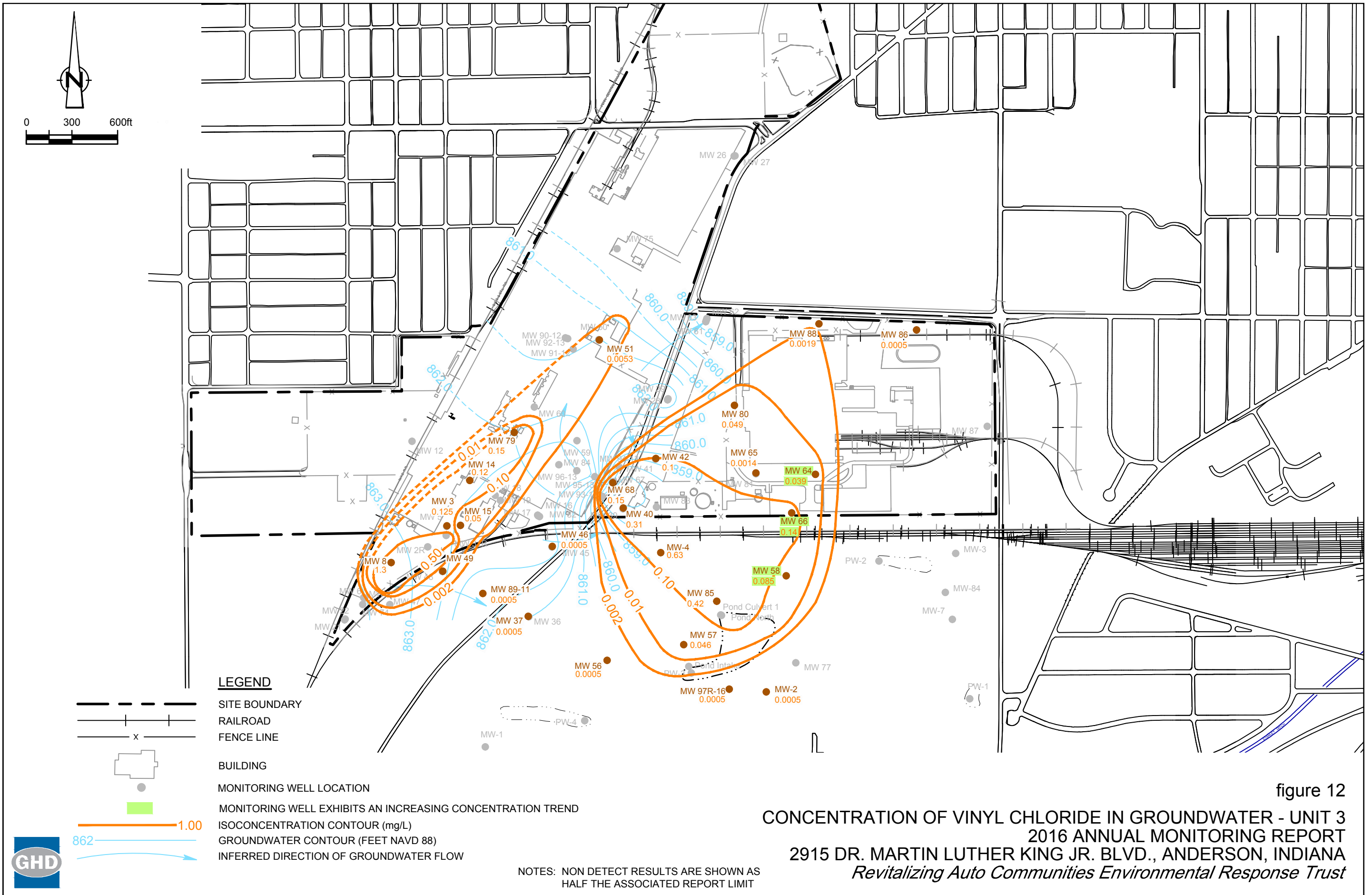


|                                |                            |                        |                  |
|--------------------------------|----------------------------|------------------------|------------------|
| Source Reference:              |                            |                        |                  |
| Project Manager:<br>R. CATALLO | Reviewed By:<br>R. CATALLO | Date:<br>DECEMBER 2016 |                  |
| Scale:<br>1"=300'              | Project N°:<br>017302-T07  | Report N°:<br>050      | Drawing N°:<br>9 |

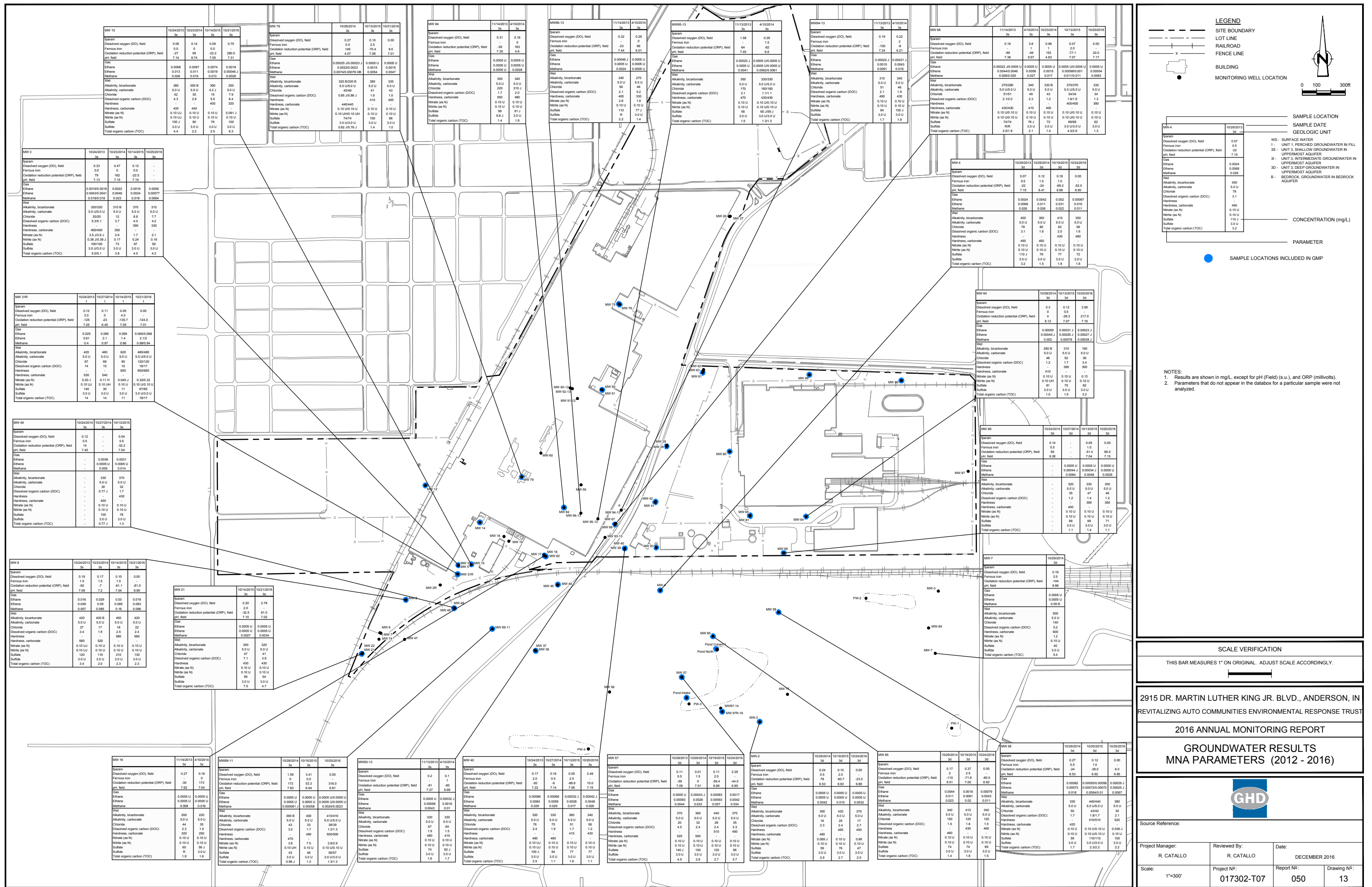












## Tables

Table 1

**Site-Wide Groundwater Monitoring Program  
2016 Annual Monitoring Report  
2915 Dr. Martin Luther King Jr. Boulevard,  
Anderson, Indiana**

| <b>Monitoring<br/>Well<br/>Location</b> | <b>Hydro-<br/>Geologic<br/>Unit</b> | <b>Year<br/>Installed</b> | <b>Plume<br/>Position <sup>(5)</sup></b> | <b>Monitored<br/>3 x Per Year <sup>(6)</sup></b> | <b>Semiannual<br/>Monitoring</b> | <b>Annual<br/>Monitoring</b> |
|-----------------------------------------|-------------------------------------|---------------------------|------------------------------------------|--------------------------------------------------|----------------------------------|------------------------------|
| MW-2                                    | 3d                                  | 2003                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 3                                    | 3s                                  | 1992                      | AOC 1, Source                            |                                                  | X <sup>(7,8)</sup>               |                              |
| MW-4                                    | 3d                                  | 2003                      | WWTP, Tail                               |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 8                                    | 3s                                  | 1993                      | AOC 1, Source                            |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 12                                   | 3i                                  | 1993                      | AOC 1, Tail                              |                                                  | X <sup>(7)</sup>                 |                              |
| MW 14                                   | 3s                                  | 1993                      | AOC 1, Tail                              |                                                  | X <sup>(7)</sup>                 |                              |
| MW 15 <sup>(3)</sup>                    | 3s                                  | 1993                      | AOC 1, Source                            |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 16 <sup>(4)</sup>                    | 3s                                  | 1993                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 21 <sup>(3)</sup>                    | 3s                                  | 2000                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 28                                   | 3d                                  | 2000                      | WWTP, Tail                               |                                                  | X <sup>(7)</sup>                 |                              |
| MW 31R <sup>(1)</sup>                   | 1                                   | 2000                      | AOC 1, Source                            |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 37 <sup>(1)</sup>                    | 3s                                  | 2001                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 40                                   | 3s                                  | 2003                      | WWTP, Source                             |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 41                                   | 3d                                  | 2003                      | WWTP, Source                             |                                                  | X <sup>(7)</sup>                 |                              |
| MW 42                                   | 3s                                  | 2003                      | WWTP, Source                             |                                                  | X <sup>(7)</sup>                 |                              |
| MW 46 <sup>(1)</sup>                    | 3s                                  | 2003                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 49                                   | 3s                                  | 2003                      | AOC 1, Tail                              |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 51                                   | 3s                                  | 2003                      | AOC 1, Tail                              |                                                  | X <sup>(7)</sup>                 |                              |
| MW 56                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 57                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 58                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 61                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 64                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7,8)</sup>           |
| MW 65                                   | 3d                                  | 2004                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 66                                   | 3d                                  | 2004                      | WWTP, Tail                               |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 68                                   | 3s                                  | 2004                      | WWTP, Source                             |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 75                                   | 3d                                  | 2004                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 76                                   | 3s                                  | 2004                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 79                                   | 3s                                  | 2004                      | AOC 1, Tail                              |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 80                                   | 3d                                  | 2005                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 81                                   | B                                   | 2005                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 82                                   | B                                   | 2005                      | AOC 1, Margin                            |                                                  |                                  | X <sup>(7)</sup>             |
| MW 83                                   | B                                   | 2005                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 84 <sup>(4)</sup>                    | 3S                                  | 2005                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| MW 85                                   | 3d                                  | 2007                      | WWTP, Tail                               |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 86                                   | 3d                                  | 2010                      | WWTP, Tail                               |                                                  |                                  | X <sup>(7)</sup>             |
| MW 88                                   | 3d                                  | 2010                      | WWTP, Tail                               |                                                  |                                  | X <sup>(7)</sup>             |
| MW 89-11 <sup>(2)</sup>                 | 3s                                  | 2011                      | AOC 1, Tail                              |                                                  | X <sup>(7,8)</sup>               |                              |
| MW 97R-16 <sup>(3)</sup>                | 3d                                  | 2015                      | WWTP, Margin                             |                                                  |                                  | X <sup>(7)</sup>             |
| Pond (Intake)                           | Surface Water                       | N/A                       | Surface Water                            | X <sup>(7)</sup>                                 |                                  |                              |
| Pond (North)                            | Surface Water                       | N/A                       | Surface Water                            | X <sup>(7)</sup>                                 |                                  |                              |

**Notes:**

(1) Well added to the monitoring program based on IDEM review comments 5/2/2008

(2) Well added to the monitoring program based on recommendation letter dated 4/18/2012 and approved by IDEM on 5/11/2012

(3) Well added to the monitoring program based on recommendation from the 2014 Annual Monitoring Report (2/2/2015) and approved by IDEM on 6/1/2015

(4) Well added to the monitoring program based on IDEM review comments 5/7/2015

(5) AOC 1 = VOC plume originating at AOC 1 - South Court

WWTP = VOC plume originating from former WWTP Area

Source = VOC source area well

(6) Locations to be sampled Spring, Summer, and Fall

(7) TCL VOCs: Target Compound List Volatile Organic Compounds

(8) MNA - Monitored Natural Attenuation Parameters collected during the Fall Event (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)

Table 2

**Monitoring Well Construction and Surface Water Benchmark Details**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <b>Monitoring<br/>Well<br/>Location</b> | <b>Hydro-<br/>Geologic<br/>Unit</b> | <b>Northing <sup>(1)</sup></b> | <b>Easting <sup>(1)</sup></b> | <b>Datum<br/>El. <sup>(2,3)</sup></b> | <b>Revised<br/>Datum<br/>El. <sup>(2,3)</sup></b> | <b>Screen<br/>Top <sup>(2)</sup></b> | <b>Screen<br/>Bottom <sup>(2)</sup></b> |
|-----------------------------------------|-------------------------------------|--------------------------------|-------------------------------|---------------------------------------|---------------------------------------------------|--------------------------------------|-----------------------------------------|
| MW 1                                    | 3s                                  | 1761110.3                      | 317311.1                      | 880.70                                | 880.86 <sup>(4)</sup>                             | 864.50                               | 860.21                                  |
| MW 2                                    | 3s                                  | 1761003.2                      | 317244.7                      | 879.70                                |                                                   | 864.75                               | 860.47                                  |
| MW2 R                                   | 3s                                  | 1760999.3                      | 317243.9                      | 879.68                                | 879.25 <sup>(4)</sup>                             | 864.46                               | 860.18                                  |
| MW 3                                    | 3s                                  | 1761137.6                      | 317370.2                      | 880.51                                | 880.41 <sup>(4)</sup>                             | 864.53                               | 860.25                                  |
| MW 4                                    | 3s                                  | 1761089.4                      | 317240.2                      | 880.78                                |                                                   | 865.97                               | 861.48                                  |
| MW 5                                    | 3s                                  | 1761134.5                      | 317368.7                      | 880.54                                |                                                   | 852.93                               | 843.53                                  |
| MW 6                                    | 3s                                  | 1760666.3                      | 316823.5                      | 878.22                                |                                                   | 864.80                               | 855.18                                  |
| MW 7                                    | 3d                                  | 1760663.6                      | 316830.5                      | 878.18                                |                                                   | 835.40                               | 830.82                                  |
| MW 8                                    | 3s                                  | 1760896.0                      | 317004.4                      | 878.41                                |                                                   | 863.33                               | 853.74                                  |
| MW9                                     | 3s                                  | 1761218.5                      | 316990.4                      | 881.65                                |                                                   | 866.31                               | 856.70                                  |
| MW 10                                   | 3s                                  | 1761128.0                      | 317115.5                      | 880.88                                |                                                   | 866.30                               | 856.67                                  |
| MW 11                                   | 3s                                  | 1761699.0                      | 317145.5                      | 882.68                                |                                                   | 861.51                               | 851.88                                  |
| MW 12                                   | 3i                                  | 1761692.8                      | 317141.2                      | 882.78                                |                                                   | 833.84                               | 829.26                                  |
| MW 13                                   | 3s                                  | 1761430.2                      | 317517.7                      | 881.25                                |                                                   | 866.13                               | 856.50                                  |
| MW 14                                   | 3s                                  | 1761435.2                      | 317520.1                      | 881.36                                |                                                   | 852.63                               | 848.06                                  |
| MW 15                                   | 3s                                  | 1761140.7                      | 317459.5                      | 879.67                                |                                                   | 864.76                               | 855.13                                  |
| MW 16                                   | 3s                                  | 1761203.4                      | 317969.5                      | 878.65                                | 879.83 <sup>(4)</sup>                             | 864.01                               | 854.40                                  |
| MW 17                                   | 3s                                  | 1761207.9                      | 317966.4                      | 878.30                                | 879.86 <sup>(4)</sup>                             | 853.30                               | 848.72                                  |
| MW 18                                   | 3s                                  | 1761337.0                      | 317687.7                      | 878.88                                |                                                   | 858.88                               | 854.15                                  |
| MW 19                                   | 3s                                  | 1761304.0                      | 317721.7                      | 878.54                                |                                                   | 858.75                               | 854.04                                  |
| MW 20                                   | 3s                                  | 1761098.7                      | 317705.5                      | 877.70                                |                                                   | 852.50                               | 847.76                                  |
| MW 21                                   | 3s                                  | 1760520.1                      | 316698.0                      | 878.74                                |                                                   | 850.92                               | 846.20                                  |
| MW 22                                   | 3s                                  | 1760525.5                      | 316702.1                      | 879.11                                |                                                   | 861.67                               | 856.92                                  |
| MW 23                                   | 3s                                  | 1761096.0                      | 317715.2                      | 877.68                                |                                                   | 860.71                               | 855.97                                  |
| MW 24                                   | 3d                                  | 1762007.5                      | 317041.2                      | 882.77                                |                                                   | 803.78                               | 794.03                                  |
| MW 25                                   | 3s                                  | 1762008.7                      | 317047.0                      | 882.85                                |                                                   | 853.75                               | 844.00                                  |
| MW 26                                   | 3d                                  | 1763564.6                      | 319256.7                      | 883.09                                |                                                   | 840.65                               | 830.82                                  |
| MW 27                                   | 1                                   | 1763566.5                      | 319262.7                      | 883.04                                |                                                   | 853.15                               | 848.42                                  |
| MW 28                                   | 3d                                  | 1761964.9                      | 318819.0                      | 877.44                                |                                                   | 834.40                               | 824.66                                  |
| MW 29                                   | 3s                                  | 1761971.1                      | 318822.0                      | 877.53                                |                                                   | 862.21                               | 852.49                                  |
| MW 30                                   | 1                                   | 1760992.0                      | 317335.2                      | 878.50                                |                                                   | 868.64                               | 863.95                                  |
| MW 31                                   | 1                                   | 1761074.5                      | 317365.6                      | 879.22                                |                                                   | 872.17                               | 867.91                                  |
| MW 31R                                  | 1                                   | 1761074.5                      | 317365.6                      | 879.71                                |                                                   | 871.58                               | 866.90                                  |
| MW 32                                   | 1                                   | 1760855.5                      | 316937.0                      | 878.88                                |                                                   | 871.99                               | 867.71                                  |
| MW 33                                   | 1                                   | 1760961.5                      | 316889.2                      | 880.01                                |                                                   | 873.05                               | 868.76                                  |
| MW 34                                   | 1                                   | 1761281.2                      | 316498.1                      | 883.67                                |                                                   | 858.38                               | 849.03                                  |
| MW 35                                   | 3d                                  | 1761273.9                      | 316512.3                      | 883.96                                |                                                   | 828.90                               | 819.56                                  |
| MW 36                                   | 3d                                  | 1760540.9                      | 317908.8                      | 870.09                                |                                                   | 850.97                               | 846.24                                  |
| MW 37                                   | 3s                                  | 1760543.9                      | 317904.2                      | 869.95                                |                                                   | 860.74                               | 856.00                                  |
| MW 38                                   | 3d                                  | 1760964.00                     | 317719.32                     | 877.65                                |                                                   | 846.42                               | 836.74                                  |
| MW 39                                   | 3d                                  | 1761249.83                     | 318526.24                     | 879.51                                |                                                   | 836.29                               | 826.56                                  |
| MW 40                                   | 3s                                  | 1761254.51                     | 318528.40                     | 879.51                                |                                                   | 851.37                               | 841.64                                  |
| MW 41                                   | 3d                                  | 1761575.05                     | 318740.73                     | 878.58                                |                                                   | 839.63                               | 834.92                                  |
| MW 42                                   | 3s                                  | 1761579.24                     | 318742.21                     | 878.54                                |                                                   | 854.93                               | 845.20                                  |
| MW 43                                   | 3d                                  | 1762141.24                     | 318947.24                     | 876.00                                |                                                   | 818.86                               | 814.13                                  |
| MW 44                                   | 3s                                  | 1762145.28                     | 318948.82                     | 876.02                                |                                                   | 853.74                               | 844.02                                  |
| MW 45                                   | 3d                                  | 1760998.51                     | 318060.78                     | 873.72                                |                                                   | 833.77                               | 824.04                                  |
| MW 46                                   | 3s                                  | 1761002.51                     | 318062.71                     | 873.64                                |                                                   | 859.63                               | 854.92                                  |
| MW 47                                   | 3s                                  | 1760620.47                     | 316995.56                     | 880.27                                |                                                   | 856.99                               | 852.27                                  |
| MW 48                                   | 3d                                  | 1760837.68                     | 317340.18                     | 877.96                                |                                                   | 838.96                               | 834.25                                  |
| MW 49                                   | 3s                                  | 1760839.93                     | 317343.16                     | 877.93                                |                                                   | 855.69                               | 845.98                                  |
| MW 50                                   | 3d                                  | 1762359.73                     | 318367.08                     | 878.27                                |                                                   | 839.92                               | 835.20                                  |
| MW 51                                   | 3s                                  | 1762357.18                     | 318371.66                     | 878.19                                |                                                   | 855.93                               | 851.20                                  |
| MW 52                                   | 3d                                  | 1761696.65                     | 317137.65                     | 882.69                                |                                                   | 797.11                               | 787.39                                  |
| MW 53                                   | 3d                                  | 1761894.20                     | 317087.64                     | 881.43                                |                                                   | 758.27                               | 748.62                                  |
| MW 54                                   | 3d                                  | 1761482.29                     | 316871.62                     | 880.37                                |                                                   | 820.55                               | 810.82                                  |
| MW 55                                   | 3s                                  | 1761482.41                     | 316867.16                     | 880.28                                |                                                   | 851.42                               | 841.69                                  |
| MW 56                                   | 3d                                  | 1760254.76                     | 318422.25                     | 859.32                                |                                                   | 847.93                               | 838.27                                  |
| MW 57                                   | 3d                                  | 1760357.35                     | 318925.21                     | 862.52                                |                                                   | 842.68                               | 833.38                                  |
| MW 58                                   | 3d                                  | 1760809.76                     | 319598.52                     | 861.46                                |                                                   | 854.35                               | 849.69                                  |
| MW 59                                   | 3s                                  | 1761696.70                     | 318223.89                     | 882.00                                |                                                   | 852.77                               | 848.03                                  |

Table 2

**Monitoring Well Construction and Surface Water Benchmark Details**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <b>Monitoring<br/>Well<br/>Location</b> | <b>Hydro-<br/>Geologic<br/>Unit</b> | <b>Northing <sup>(1)</sup></b> | <b>Easting <sup>(1)</sup></b> | <b>Datum<br/>El. <sup>(2,3)</sup></b> | <b>Revised<br/>Datum<br/>El. <sup>(2,3)</sup></b> | <b>Screen<br/>Top <sup>(2)</sup></b> | <b>Screen<br/>Bottom <sup>(2)</sup></b> |
|-----------------------------------------|-------------------------------------|--------------------------------|-------------------------------|---------------------------------------|---------------------------------------------------|--------------------------------------|-----------------------------------------|
| MW 60                                   | 3s                                  | 1761917.38                     | 317944.64                     | 881.77                                |                                                   | 847.95                               | 843.24                                  |
| MW 61                                   | 3d                                  | 1762477.48                     | 319069.90                     | 876.57                                |                                                   | 823.11                               | 813.40                                  |
| MW 62                                   | B                                   | 1762498.26                     | 319076.96                     | 876.70                                |                                                   | 783.65                               | 773.95                                  |
| MW 63                                   | 3s                                  | 1762488.77                     | 319074.19                     | 876.53                                |                                                   | 846.17                               | 841.45                                  |
| MW 64                                   | 3d                                  | 1761475.47                     | 319789.86                     | 863.97                                |                                                   | 853.22                               | 843.56                                  |
| MW 65                                   | 3d                                  | 1761484.84                     | 319399.81                     | 864.22                                |                                                   | 853.47                               | 843.80                                  |
| MW 66                                   | 3d                                  | 1761222.31                     | 319634.36                     | 861.67                                |                                                   | 853.73                               | 844.02                                  |
| MW 67                                   | 3d                                  | 1761427.43                     | 318463.83                     | 877.03                                |                                                   | 835.69                               | 831.02                                  |
| MW 68                                   | 3s                                  | 1761420.80                     | 318459.32                     | 876.98                                |                                                   | 846.75                               | 842.09                                  |
| MW 69                                   | 3d                                  | 1760874.10                     | 316649.68                     | 882.08                                |                                                   | 833.90                               | 829.23                                  |
| MW 70                                   | 3s                                  | 1760874.50                     | 316644.87                     | 881.82                                |                                                   | 849.98                               | 840.32                                  |
| MW 71                                   | B                                   | 1762665.14                     | 317640.98                     | 878.16                                |                                                   | 761.95                               | 752.31                                  |
| MW 72                                   | 3s                                  | 1762672.70                     | 317638.05                     | 877.74                                |                                                   | 847.86                               | 838.06                                  |
| MW 73                                   | 3d                                  | 1762677.33                     | 317644.90                     | 877.96                                |                                                   | 797.57                               | 787.91                                  |
| MW 74                                   | B                                   | 1760621.78                     | 316817.18                     | 881.10                                |                                                   | 818.81                               | 809.07                                  |
| MW 75                                   | 3d                                  | 1762950.00                     | 318486.45                     | 881.42                                | 882.23 <sup>(5)</sup>                             | 801.31                               | 791.63                                  |
| MW 76                                   | 3s                                  | 1762951.84                     | 318492.81                     | 881.11                                |                                                   | 831.97                               | 822.34                                  |
| MW 77                                   | B                                   | 1760238.33                     | 319661.11                     | 862.77                                |                                                   | 851.67                               | 842.04                                  |
| MW 78                                   | 3s                                  | 1761873.71                     | 317734.00                     | 882.25                                |                                                   | 855.48                               | 850.75                                  |
| MW 79                                   | 3s                                  | 1761750.49                     | 317811.99                     | 881.92                                |                                                   | 841.69                               | 836.96                                  |
| MW 80                                   | 3d                                  | 1761928.33                     | 319258.30                     | 865.49                                |                                                   | 841.54                               | 836.84                                  |
| MW 81                                   | B                                   | 1761479.01                     | 319399.60                     | 864.38                                |                                                   | 839.58                               | 829.88                                  |
| MW 82                                   | B                                   | 1761198.31                     | 317978.59                     | 878.55                                | 879.70 <sup>(4)</sup>                             | 782.27                               | 772.54                                  |
| MW 83                                   | B                                   | 1761260.12                     | 318746.50                     | 876.23                                |                                                   | 801.58                               | 791.93                                  |
| MW 84                                   | 3s                                  | 1761539.65                     | 318105.07                     | 881.95                                |                                                   | 848.97                               | 844.25                                  |
| MW 85                                   | 3d                                  | 1760642.54                     | 319141.95                     | 866.11                                |                                                   | 851.62                               | 842.11                                  |
| MW 86                                   | 3d                                  | 1762422.91                     | 320453.85                     | 859.12                                |                                                   | 841.15                               | 836.67                                  |
| MW 87                                   | 3d                                  | 1761790.75                     | 320918.50                     | 861.51                                |                                                   | 848.40                               | 843.91                                  |
| MW 88                                   | 3d                                  | 1762463.35                     | 319813.49                     | 859.59                                |                                                   | 829.41                               | 819.91                                  |
| MW 89-11                                | 3s                                  | 1760693.90                     | 317605.91                     | 875.39                                |                                                   | 865.74                               | 855.74                                  |
| MW 90-12                                | 1                                   | 1762368.16                     | 318146.02                     | 884.31                                |                                                   | 878.01                               | 873.01                                  |
| MW91-12                                 | 1                                   | 1762277.18                     | 318106.74                     | 884.50                                |                                                   | 877.30                               | 872.30                                  |
| MW 92-13                                | 3s                                  | 1762364.98                     | 318152.94                     | 884.31                                |                                                   | 853.21                               | 848.21                                  |
| MW 93-13                                | 3s                                  | 1761325.52                     | 318397.91                     | 880.71                                |                                                   | 848.09                               | 843.09                                  |
| MW 94-13                                | 3s                                  | 1761506.98                     | 318516.06                     | 880.77                                |                                                   | 843.09                               | 838.09                                  |
| MW 95-13                                | 3s                                  | 1761465.96                     | 318360.70                     | 884.13                                |                                                   | 856.53                               | 851.53                                  |
| MW 96-13                                | 3s                                  | 1761495.10                     | 318257.10                     | 884.18                                |                                                   | 854.14                               | 849.14                                  |
| MW 97-14                                | 3d                                  | 1760141.03                     | 319196.24                     | 860.14                                |                                                   | 849.35                               | 844.35                                  |
| MW 97R-16                               | 3d                                  | 1760065.02                     | 319224.15                     | 864.87                                |                                                   | 852.54                               | 847.54                                  |
| ER-1                                    | 1                                   | 1761864.90                     | 317412.04                     | 881.93                                |                                                   | 868.16                               | 858.16                                  |
| ER-2                                    | 1                                   | 1761856.43                     | 317394.55                     | 881.96                                |                                                   | 872.19                               | 862.19                                  |
| ER-3                                    | 1                                   | 1761856.37                     | 317361.47                     | 882.09                                |                                                   | 872.28                               | 862.28                                  |
| <b>Meadowbrook Golf Course Wells</b>    |                                     |                                |                               |                                       |                                                   |                                      |                                         |
| MW-1                                    | 3d                                  | 1759686.91                     | 317622.12                     | 859.18                                |                                                   | 855.67                               | 847.67                                  |
| MW-2                                    | 3d                                  | 1760047.06                     | 319467.27                     | 860.08                                |                                                   | 857.31                               | 851.31                                  |
| MW-3                                    | 3d                                  | 1760956.57                     | 320710.96                     | 862.68                                |                                                   | 860.06                               | 851.36                                  |
| MW-4                                    | 3d                                  | 1760961.86                     | 318774.81                     | 861.67                                |                                                   | 859.08                               | 839.08                                  |
| MW-5                                    | 3d                                  | 1760305.51                     | 320618.11                     | 871.01                                |                                                   | 866.49                               | 853.49                                  |
| MW-6                                    | 3d                                  | 1760511.36                     | 320752.07                     | 868.92                                |                                                   | 862.30                               | 844.30                                  |
| MW-7                                    | 3d                                  | 1760523.65                     | 320689.67                     | 869.69                                |                                                   | 864.01                               | 844.01                                  |
| <b>Surface Water</b>                    |                                     |                                |                               |                                       |                                                   |                                      |                                         |
| TBM-1                                   | 3d                                  | 1759953.34                     | 320818.16                     | 862.50                                |                                                   | NA                                   | NA                                      |
| TBM-2                                   | 3d                                  | 1760924.00                     | 320538.74                     | 860.41                                |                                                   | NA                                   | NA                                      |
| TBM-3                                   | 3d                                  | 1760214.40                     | 318958.42                     | 858.97                                |                                                   | NA                                   | NA                                      |
| TBM-4                                   | 3d                                  | 1759888.87                     | 318295.42                     | 860.51                                |                                                   | NA                                   | NA                                      |
| TBM-5                                   | 3d                                  | 1759672.93                     | 318693.89                     | 857.49                                |                                                   | NA                                   | NA                                      |
| TBM-6                                   | 3d                                  | 1759806.90                     | 319657.43                     | 857.82                                |                                                   | NA                                   | NA                                      |
| Culvert 1                               | 3d                                  | 1760552.00                     | 319168.00                     | 857.79                                |                                                   | NA                                   | NA                                      |

**Notes:**

(1) Coordinates are Indiana State Plane Coordinate System, 1301 East, NAD 83, US Survey Feet.

(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.

(3) Datum for elevation and depth is marked on top of PVC riser pipe.

(4) Survey revised in 2010

(5) Survey revised in 2016

NM - Not Measured

NA - Not Applicable



Table 3

**Groundwater Elevation Data 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Monitoring Well<br>Location | Hydro-<br>Geologic<br>Unit | Riser<br>Elevation<br>(f NAVD 88) | 7-Oct-15                      |                                         | 18-Apr-16                     |                                         | 18-Oct-16                     |                                         |
|-----------------------------|----------------------------|-----------------------------------|-------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|
|                             |                            |                                   | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) |
| MW2 R                       | 3s                         | 879.25                            | -                             | -                                       | -                             | -                                       | 16.44                         | 862.81                                  |
| MW 3                        | 3s                         | 880.41                            | 17.97                         | 862.44                                  | 14.91                         | 865.50                                  | 17.78                         | 862.63                                  |
| MW 5                        | 3s                         | 880.54                            | 17.94                         | 862.60                                  | -                             | -                                       | 17.75                         | 862.79                                  |
| MW 6                        | 3s                         | 878.22                            | 15.08                         | 863.14                                  | -                             | -                                       | 14.70                         | 863.52                                  |
| MW 7                        | 3d                         | 878.18                            | 15.08                         | 863.10                                  | -                             | -                                       | 14.70                         | 863.48                                  |
| MW 8                        | 3s                         | 878.41                            | 15.52                         | 862.89                                  | 12.00                         | 866.41                                  | 15.22                         | 863.19                                  |
| MW 12                       | 3i                         | 882.78                            | 19.70                         | 863.08                                  | 16.74                         | 866.04                                  | 19.62                         | 863.16                                  |
| MW 14                       | 3s                         | 881.36                            | 19.12                         | 862.24                                  | 16.21                         | 865.15                                  | 18.96                         | 862.40                                  |
| MW 15                       | 3s                         | 879.67                            | 17.38                         | 862.29                                  | 14.41                         | 865.26                                  | 17.19                         | 862.48                                  |
| MW 16                       | 3s                         | 879.83                            | 16.85                         | 862.98                                  | 14.65                         | 865.18                                  | 16.86                         | 862.97                                  |
| MW 17                       | 3s                         | 879.86                            | 16.96                         | 862.90                                  | -                             | -                                       | 16.86                         | 863.00                                  |
| MW 18                       | 3s                         | 878.88                            | 22.25                         | 856.63                                  | -                             | -                                       | 22.01                         | 856.87                                  |
| MW 19                       | 3s                         | 878.54                            | 5.05                          | 873.49                                  | -                             | -                                       | 5.09                          | 873.45                                  |
| MW 21                       | 3s                         | 878.74                            | 15.78                         | 862.96                                  | 11.25                         | 867.49                                  | 14.90                         | 863.84                                  |
| MW 22                       | 3s                         | 879.11                            | 16.17                         | 862.94                                  | -                             | -                                       | 15.29                         | 863.82                                  |
| MW 26                       | 3d                         | 883.09                            | 26.02                         | 857.07                                  | 24.55                         | 858.54                                  | 25.82                         | 857.27                                  |
| MW 27                       | 1                          | 883.04                            | 23.18                         | 859.86                                  | -                             | -                                       | 22.54                         | 860.50                                  |
| MW 28                       | 3d                         | 877.44                            | 19.92                         | 857.52                                  | 18.61                         | 858.83                                  | 19.69                         | 857.75                                  |
| MW 29                       | 3s                         | 877.53                            | 14.88                         | 862.65                                  | -                             | -                                       | 15.06                         | 862.47                                  |
| MW 31R                      | 1                          | 879.71                            | 8.58                          | 871.13                                  | 6.54                          | 873.17                                  | 7.74                          | 871.97                                  |
| MW 36                       | 3d                         | 870.09                            | 11.05                         | 859.04                                  | -                             | -                                       | 10.89                         | 859.20                                  |
| MW 37                       | 3s                         | 869.95                            | 8.79                          | 861.16                                  | 6.63                          | 863.32                                  | 8.43                          | 861.52                                  |
| MW 39                       | 3d                         | 879.51                            | 21.63                         | 857.88                                  | -                             | -                                       | 21.39                         | 858.12                                  |
| MW 40                       | 3s                         | 879.51                            | 21.65                         | 857.86                                  | 20.34                         | 859.17                                  | 21.42                         | 858.09                                  |
| MW 41                       | 3d                         | 878.58                            | 25.13                         | 853.45                                  | 23.88                         | 854.70                                  | 25.49                         | 853.09                                  |
| MW 42                       | 3s                         | 878.54                            | 25.25                         | 853.29                                  | 23.98                         | 854.56                                  | 25.07                         | 853.47                                  |
| MW 45                       | 3d                         | 873.72                            | 14.71                         | 859.01                                  | 13.07                         | 860.65                                  | 15.52                         | 858.20                                  |
| MW 46                       | 3s                         | 873.64                            | 10.92                         | 862.72                                  | 8.56                          | 865.08                                  | 10.79                         | 862.85                                  |
| MW 47                       | 3s                         | 880.27                            | 18.12                         | 862.15                                  | -                             | -                                       | 17.03                         | 863.24                                  |
| MW 49                       | 3s                         | 877.93                            | 15.50                         | 862.43                                  | 12.25                         | 865.68                                  | -                             | -                                       |
| MW 51                       | 3s                         | 878.19                            | 16.62                         | 861.57                                  | 15.07                         | 863.12                                  | 16.67                         | 861.52                                  |
| MW 56                       | 3d                         | 859.32                            | 2.23                          | 857.09                                  | 1.65                          | 857.67                                  | 2.10                          | 857.22                                  |
| MW 57                       | 3d                         | 862.52                            | 5.56                          | 856.96                                  | 6.97                          | 855.55                                  | 5.35                          | 857.17                                  |
| MW 58                       | 3d                         | 861.46                            | 4.61                          | 856.85                                  | 4.59                          | 856.87                                  | 5.15                          | 856.31                                  |
| MW 59                       | 3s                         | 882.00                            | -                             | -                                       | -                             | -                                       | 26.12                         | 855.88                                  |
| MW 60                       | 3s                         | 881.77                            | 20.25                         | 861.52                                  | -                             | -                                       | 20.11                         | 861.66                                  |
| MW 61                       | 3d                         | 876.57                            | 19.35                         | 857.22                                  | 18.02                         | 858.55                                  | 19.13                         | 857.44                                  |
| MW 62                       | B                          | 876.70                            | 18.80                         | 857.90                                  | 17.01                         | 859.69                                  | 18.60                         | 858.10                                  |
| MW 63                       | 3s                         | 876.53                            | 18.05                         | 858.48                                  | 16.82                         | 859.71                                  | 17.95                         | 858.58                                  |
| MW 64                       | 3d                         | 863.97                            | 7.08                          | 856.89                                  | 6.15                          | 857.82                                  | 6.86                          | 857.11                                  |
| MW 65                       | 3d                         | 864.22                            | 7.11                          | 857.11                                  | 6.04                          | 858.18                                  | 8.86                          | 855.36                                  |
| MW 66                       | 3d                         | 861.67                            | 4.73                          | 856.94                                  | 3.91                          | 857.76                                  | 4.53                          | 857.14                                  |
| MW 67                       | 3d                         | 877.03                            | 19.12                         | 857.91                                  | -                             | -                                       | 18.93                         | 858.10                                  |
| MW 68                       | 3s                         | 876.98                            | 18.90                         | 858.08                                  | 17.52                         | 859.46                                  | 18.67                         | 858.31                                  |
| MW 74                       | B                          | 881.10                            | 17.31                         | 863.79                                  | -                             | -                                       | 16.64                         | 864.46                                  |
| MW 75                       | 3d                         | 882.23                            | -                             | -                                       | -                             | -                                       | 22.24                         | 859.99                                  |
| MW 76                       | 3s                         | 881.11                            | -                             | -                                       | -                             | -                                       | -                             | -                                       |
| MW 77                       | B                          | 862.77                            | 5.92                          | 856.85                                  | -                             | -                                       | 5.81                          | 856.96                                  |
| MW 79                       | 3s                         | 881.92                            | 20.07                         | 861.85                                  | 17.43                         | 864.49                                  | 19.91                         | 862.01                                  |
| MW 80                       | 3d                         | 865.49                            | 8.52                          | 856.97                                  | 7.43                          | 858.06                                  | 8.23                          | 857.26                                  |
| MW 81                       | B                          | 864.38                            | 7.30                          | 857.08                                  | 6.33                          | 858.05                                  | 7.12                          | 857.26                                  |
| MW 82                       | B                          | 879.70                            | 16.78                         | 862.92                                  | 13.30                         | 866.40                                  | 16.31                         | 863.39                                  |
| MW 83                       | B                          | 876.23                            | 18.95                         | 857.28                                  | 17.99                         | 858.24                                  | 18.70                         | 857.53                                  |
| MW 84                       | 3s                         | 881.95                            | 19.17                         | 862.78                                  | 17.43                         | 864.52                                  | 19.03                         | 862.92                                  |
| MW 85                       | 3d                         | 866.11                            | 9.11                          | 857.00                                  | 8.54                          | 857.57                                  | 9.02                          | 857.09                                  |
| MW 86                       | 3d                         | 859.12                            | 3.51                          | 855.61                                  | 2.29                          | 856.83                                  | 3.15                          | 855.97                                  |
| MW 87                       | 3d                         | 861.51                            | 3.10                          | 858.41                                  | 1.70                          | 859.81                                  | 2.07                          | 859.44                                  |
| MW 88                       | 3d                         | 859.59                            | 3.32                          | 856.27                                  | 2.25                          | 857.34                                  | 3.02                          | 856.57                                  |
| MW 89-11                    | 3s                         | 875.39                            | 13.38                         | 862.01                                  | 10.40                         | 864.99                                  | 13.12                         | 862.27                                  |
| MW 90-12                    | 1                          | 884.31                            | 9.83                          | 874.48                                  | -                             | -                                       | 8.79                          | 875.52                                  |
| MW91-12                     | 1                          | 884.50                            | 10.32                         | 874.18                                  | 6.23                          | 878.27                                  | 8.63                          | 875.87                                  |
| MW 92-13                    | 3s                         | 884.31                            | 23.05                         | 861.26                                  | 21.02                         | 863.29                                  | 23.00                         | 861.31                                  |
| MW 93-13                    | 3s                         | 880.71                            | 22.65                         | 858.06                                  | -                             | -                                       | 22.41                         | 858.30                                  |
| MW 94-13                    | 3s                         | 880.77                            | 22.74                         | 858.03                                  | -                             | -                                       | 22.51                         | 858.26                                  |
| MW 95-13                    | 3s                         | 884.13                            | 21.92                         | 862.21                                  | -                             | -                                       | 21.78                         | 862.35                                  |

Table 3

**Groundwater Elevation Data 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Monitoring Well<br>Location   | Hydro-<br>Geologic<br>Unit | Riser<br>Elevation<br>(f NAVD 88) | 7-Oct-15                      |                                         | 18-Apr-16                     |                                         | 18-Oct-16                     |                                         |
|-------------------------------|----------------------------|-----------------------------------|-------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|
|                               |                            |                                   | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) | Depth to<br>Water<br>(f btor) | Groundwater<br>Elevation<br>(f NAVD 88) |
| MW 96-13                      | 3s                         | 884.18                            | 21.24                         | 862.94                                  | -                             | -                                       | 21.23                         | 862.95                                  |
| MW 97-14                      | 3d                         | 860.14                            | 3.00                          | 857.14                                  | 2.54                          | 857.60                                  | -                             | -                                       |
| MW 97R-16                     | 3d                         | 864.87                            | -                             | -                                       | -                             | -                                       | 7.87                          | 857.00                                  |
| Meadowbrook Golf Course Wells |                            |                                   |                               |                                         |                               |                                         |                               |                                         |
| MW-1                          | 3d                         | 859.18                            | 1.36                          | 857.82                                  | -                             | -                                       | 1.15                          | 858.03                                  |
| MW-2                          | 3d                         | 860.08                            | 3.21                          | 856.87                                  | 2.60                          | 857.48                                  | 3.02                          | 857.06                                  |
| MW-3                          | 3d                         | 862.68                            | 3.27                          | 859.41                                  | -                             | -                                       | 2.72                          | 859.96                                  |
| MW-4                          | 3d                         | 861.67                            | 4.40                          | 857.27                                  | 3.50                          | 858.17                                  | 4.20                          | 857.47                                  |
| MW-7                          | 3d                         | 869.69                            | 10.20                         | 859.49                                  | -                             | -                                       | 9.48                          | 860.21                                  |
| Pond (North)                  | Surface Water              | 857.79                            | 1.00                          | 856.79                                  | -                             | -                                       | 0.72                          | 857.07                                  |

**Notes:**

- (1) btor - below top of riser (i.e., reference elevation).  
(2) Elevation based on level survey relative to USGS Monument PID LA1429 = 882.61 NAVD88.  
(3) Datum for elevation and depth is marked on top of PVC riser pipe.  
(4) Blank table entries indicate that reference location was not installed at the time measurements were taken. A dash (-) indicates that the location was not measured.

Table 4

**Sample Key**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Sample Location</i> | <i>Sample Identification</i> | <i>Sample Date</i> | <i>Time</i> | <i>Matrix</i> | <i>Sample Type</i> | <i>Parent Sample</i> | <i>TCL VOCs</i> | <i>MNA Parameters</i> |
|------------------------|------------------------------|--------------------|-------------|---------------|--------------------|----------------------|-----------------|-----------------------|
| MW-2                   | GW-102416-TW-029             | 10/24/16           | 10:00       | GW            | N                  |                      | X               | X                     |
| MW 3                   | GW 042016-SM-011             | 04/20/16           | 9:23        | GW            | N                  | --                   | X               |                       |
| MW 3                   | GW-102516-TW-041             | 10/25/16           | 18:40       | GW            | N                  |                      | X               | X                     |
| MW-4                   | GW-042216-SM-022             | 04/22/16           | 8:57        | GW            | N                  | --                   | X               |                       |
| MW-4                   | GW-102416-TW-031             | 10/24/16           | 12:35       | GW            | N                  |                      | X               | X                     |
| MW 8                   | GW-042016-SM-008             | 04/20/16           | 8:02        | GW            | N                  | --                   | X               |                       |
| MW 8                   | GW-042016-SM-009             | 04/20/16           | 8:05        | GW            | FD                 | GW-042016-SM-008     | X               |                       |
| MW 8                   | GW-102116-TW-011             | 10/21/16           | 18:00       | GW            | N                  |                      | X               | X                     |
| MW 12                  | GW 042116-SM-016             | 04/21/16           | 8:13        | GW            | N                  | --                   | X               |                       |
| MW 12                  | GW-102516-TW-035             | 10/25/16           | 9:20        | GW            | N                  |                      | X               |                       |
| MW 14                  | GW-041916-SM-001             | 04/19/16           | 8:07        | GW            | N                  | --                   | X               |                       |
| MW 14                  | GW-102516-TW-036             | 10/25/16           | 10:40       | GW            | N                  |                      | X               |                       |
| MW 15                  | GW-102116-TW-009             | 10/21/16           | 14:00       | GW            | N                  |                      | X               | X                     |
| MW 16                  | GW-102316-TW-026             | 10/23/16           | 16:10       | GW            | N                  |                      | X               |                       |
| MW 21                  | GW-102116-TW-010             | 10/21/16           | 16:30       | GW            | N                  |                      | X               | X                     |
| MW 28                  | GW-041916-SM-007             | 04/19/16           | 12:13       | GW            | N                  | --                   | X               |                       |
| MW 28                  | GW-102216-TW-019             | 10/22/16           | 17:10       | GW            | N                  |                      | X               |                       |
| MW 31R                 | GW 042016-SM-010             | 04/20/16           | 8:47        | GW            | N                  | --                   | X               |                       |
| MW 31R                 | GW-102116-TW-007             | 10/21/16           | 11:45       | GW            | N                  | --                   | X               | X                     |
| MW 31R                 | GW-102116-TW-008             | 10/21/16           | 11:45       | GW            | FD                 | GW-102116-TW-007     | X               | X                     |
| MW 37                  | GW-102316-TW-024             | 10/23/16           | 13:20       | GW            | N                  |                      | X               |                       |
| MW 40                  | GW-041916-SM-004             | 04/19/16           | 10:17       | GW            | N                  | --                   | X               |                       |
| MW 40                  | GW-102016-TW-004             | 10/20/16           | 13:20       | GW            | N                  | --                   | X               | X                     |
| MW 41                  | GW-041916-SM-006             | 04/19/16           | 11:27       | GW            | N                  | --                   | X               |                       |
| MW 41                  | GW-102316-TW-021             | 10/23/16           | 9:15        | GW            | N                  |                      | X               |                       |
| MW 42                  | GW-041916-SM-005             | 04/19/16           | 10:53       | GW            | N                  | --                   | X               |                       |
| MW 42                  | GW-102316-TW-022             | 10/23/16           | 10:30       | GW            | N                  |                      | X               |                       |
| MW 46                  | GW-102316-TW-028             | 10/23/16           | 18:40       | GW            | N                  |                      | X               |                       |
| MW 49                  | GW 042116-SM-018             | 04/21/16           | 9:47        | GW            | N                  | --                   | X               |                       |
| MW 51                  | GW 042016-SM-012             | 04/20/16           | 10:07       | GW            | N                  | --                   | X               |                       |
| MW 51                  | GW-102316-TW-027             | 10/23/16           | 17:30       | GW            | N                  |                      | X               |                       |
| MW 56                  | GW-102416-TW-030             | 10/24/16           | 11:30       | GW            | N                  |                      | X               |                       |
| MW 57                  | GW-102416-TW-033             | 10/24/16           | 15:20       | GW            | N                  |                      | X               | X                     |
| MW 58                  | GW-102516-TW-038             | 10/25/16           | 14:10       | GW            | N                  |                      | X               | X                     |
| MW 61                  | GW-102216-TW-020             | 10/22/16           | 18:30       | GW            | N                  |                      | X               |                       |
| MW 64                  | GW-102016-TW-002             | 10/20/16           | 9:40        | GW            | N                  | --                   | X               | X                     |
| MW 65                  | GW-101916-TW-001             | 10/19/16           | 16:30       | GW            | N                  | --                   | X               |                       |
| MW 66                  | GW 042016-SM-013             | 04/20/16           | 11:07       | GW            | N                  | --                   | X               |                       |
| MW 66                  | GW-102016-TW-003             | 10/20/16           | 11:20       | GW            | N                  | --                   | X               | X                     |
| MW 68                  | GW-041916-SM-003             | 04/19/16           | 9:33        | GW            | N                  | --                   | X               |                       |
| MW 68                  | GW-102016-TW-005             | 10/20/16           | 14:50       | GW            | N                  | --                   | X               | X                     |
| MW 75                  | GW-102316-TW-023             | 10/23/16           | 11:45       | GW            | N                  |                      | X               |                       |
| MW 79                  | GW-041916-SM-002             | 04/19/16           | 8:48        | GW            | N                  | --                   | X               |                       |
| MW79                   | GW-102116-TW-006             | 10/21/16           | 9:35        | GW            | N                  | --                   | X               | X                     |
| MW 80                  | GW-102216-TW-016             | 10/22/16           | 13:35       | GW            | N                  |                      | X               |                       |
| MW 81                  | GW-102216-TW-012             | 10/22/16           | 9:45        | GW            | N                  |                      | X               |                       |
| MW 82                  | GW-102316-TW-025             | 10/23/16           | 15:15       | GW            | N                  |                      | X               |                       |
| MW 83                  | GW-102216-TW-017             | 10/22/16           | 15:30       | GW            | N                  |                      | X               |                       |
| MW 83                  | GW-102216-TW-018             | 10/22/16           | 15:30       | GW            | FD                 | GW-102216-TW-017     | X               |                       |
| MW 84                  | GW-102416-TW-034             | 10/24/16           | 18:25       | GW            | N                  |                      | X               |                       |
| MW 85                  | GW-102416-TW-032             | 10/24/16           | 14:00       | GW            | N                  |                      | X               | X                     |
| MW 85                  | GW-042216-SM-023             | 04/22/16           | 9:47        | GW            | N                  | --                   | X               |                       |
| MW 85                  | GW-042216-SM-024             | 04/22/16           | 9:50        | GW            | FD                 | GW-042216-SM-023     | X               |                       |
| MW 86                  | GW-102216-TW-013             | 10/22/16           | 11:00       | GW            | N                  |                      | X               |                       |
| MW 88                  | GW-102216-TW-014             | 10/22/16           | 12:10       | GW            | N                  |                      | X               |                       |
| MW 88                  | GW-102216-TW-015             | 10/22/16           | 12:10       | GW            | FD                 | GW-102216-TW-014     | X               |                       |
| MW 89-11               | GW 042016-SM-014             | 04/20/16           | 12:37       | GW            | N                  | --                   | X               |                       |
| MW 89-11               | GW 042016-SM-015             | 04/20/16           | 12:40       | GW            | FD                 | GW 042016-SM-014     | X               |                       |
| MW 89-11               | GW-102516-TW-039             | 10/25/16           | 15:55       | GW            | N                  |                      | X               | X                     |
| MW 89-11               | GW-102516-TW-040             | 10/25/16           | 15:55       | GW            | FD                 | GW-102516-TW-039     | X               | X                     |

Table 4

**Sample Key**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Sample Location</i> | <i>Sample Identification</i> | <i>Sample Date</i> | <i>Time</i> | <i>Matrix</i> | <i>Sample Type</i> | <i>Parent Sample</i> | <i>TCL VOCs</i> | <i>MNA Parameters</i> |
|------------------------|------------------------------|--------------------|-------------|---------------|--------------------|----------------------|-----------------|-----------------------|
| MW 97R-16              | GW-102516-TW-037             | 10/25/16           | 12:50       | GW            | N                  |                      | X               |                       |
| Pond (Intake)          | SW-042216-SM-002             | 04/22/16           | 9:23        | SW            | N                  | --                   | X               |                       |
| Pond (Intake)          | SW-071916-TP-001             | 07/19/16           | 9:45        | SW            | N                  |                      | X               |                       |
| Pond (Intake)          | SW-102416-TW-001             | 10/24/16           | 16:15       | SW            | N                  |                      | X               |                       |
| Pond (Intake)          | SW-102416-TW-002             | 10/24/16           | 16:15       | SW            | FD                 | SW-102416-TW-001     | X               |                       |
| Pond (North)           | SW-042216-SM-001             | 04/22/16           | 9:20        | SW            | N                  | --                   | X               |                       |
| Pond (North)           | SW-071916-TP-002             | 07/19/16           | 9:55        | SW            | N                  |                      | X               |                       |
| Pond (North)           | SW-071916-TP-003             | 07/19/16           | 10:00       | SW            | FD                 | SW-071916-TP-002     | X               |                       |
| Pond (North)           | SW-102416-TW-003             | 10/24/16           | 16:25       | SW            | N                  |                      | X               |                       |
| Equipment Blank        | RB-042016-001                | 04/20/16           | 8:15        | EB            | EB                 | --                   | X               |                       |
| Equipment Blank        | EB-102116-TW-001             | 10/21/16           | 17:10       | EB            | EB                 |                      | X               |                       |
| Equipment Blank        | EB-1023160TW-002             | 10/23/16           | 13:50       | EB            | EB                 |                      | X               |                       |
| Equipment Blank        | EB-102516-TW-003             | 10/25/16           | 17:05       | EB            | EB                 |                      | X               |                       |
| Trip Blank             | TB-042116-SM-001             | 04/21/16           | 13:00       | TB            | TB                 | --                   | X               |                       |
| Trip Blank             | TB-042216-SM-002             | 04/22/16           | 10:00       | TB            | TB                 | --                   | X               |                       |
| Trip Blank             | TB-071916-TP-001             | 07/19/16           | 10:10       | TB            | TB                 |                      | X               |                       |
| Trip Blank             | TB-102016-TW-001             | 10/20/16           | --          | TB            | TB                 | --                   | X               |                       |
| Trip Blank             | TB-102116-TW-002             | 10/21/16           | --          | TB            | TB                 |                      | X               |                       |
| Trip Blank             | TB-102216-TW-003             | 10/22/16           | --          | TB            | TB                 |                      | X               |                       |
| Trip Blank             | TB-102516-TW-004             | 10/25/16           | --          | TB            | TB                 |                      | X               |                       |

**Notes:**

X - Sample collected and analyzed at the laboratory for the noted parameters

GW - Groundwater

SW - Surface Water

TB - Trip Blank

EB - Equipment Blank

N - Normal

FD - Field Duplicate

N/A - Not Applicable

MNA - Monitored Natural Attenuation (Dissolved Gases, Sulfide, Alkalinity, Hardness, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC), Chloride, Sulfate, Nitrate, Nitrite, Manganese)

TCL VOCs - Target Compound List Volatile Organic Compounds

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i>                                                                                                             | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW-2            | 10/24/2016  | 9:19                    | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:30                    | 18.93                                                                                                                                   | 0.940                           | 0.00               | 25.20                      | 6.87                 | 77.0                |
|                 |             | 9:35                    | 18.99                                                                                                                                   | 0.920                           | 0.00               | 13.50                      | 6.89                 | 48.0                |
|                 |             | 9:40                    | 18.90                                                                                                                                   | 0.940                           | 0.00               | 10.60                      | 6.86                 | 37.0                |
|                 |             | 9:45                    | 19.10                                                                                                                                   | 0.910                           | 0.00               | 2.60                       | 6.88                 | -5.0                |
|                 |             | 9:50                    | 19.03                                                                                                                                   | 0.988                           | 0.00               | 6.70                       | 6.90                 | -18.0               |
|                 |             | 9:55                    | 19.08                                                                                                                                   | 0.984                           | 0.00               | 5.60                       | 6.88                 | -23.0               |
| MW 3            | 4/20/2016   | 8:55                    | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:10                    | 12.79                                                                                                                                   | 0.730                           | 0.20               | 11.90                      | 7.35                 | 47.5                |
|                 |             | 9:15                    | 12.70                                                                                                                                   | 0.730                           | 0.19               | 4.99                       | 7.34                 | 49.7                |
|                 |             | 9:20                    | 12.69                                                                                                                                   | 0.730                           | 0.19               | 4.71                       | 7.34                 | 50.3                |
| MW 3            | 10/25/2016  | 17:50<br>18:40          | Horiba malfunctioned during well purging activities. Well was purged for 50 minutes, which is consistent with previous sampling events. |                                 |                    |                            |                      |                     |
| MW-4            | 4/22/2016   | 8:30                    | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:45                    | 11.27                                                                                                                                   | 1.060                           | 0.10               | 23.20                      | 7.27                 | -47.6               |
|                 |             | 8:50                    | 11.29                                                                                                                                   | 1.050                           | 0.10               | 24.80                      | 7.26                 | -47.6               |
|                 |             | 8:55                    | 11.28                                                                                                                                   | 1.050                           | 0.10               | 23.90                      | 7.26                 | -47.2               |
| MW-4            | 10/24/2016  | 11:56                   | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 12:10                   | 17.22                                                                                                                                   | 1.030                           | 0.00               | 127.00                     | 6.88                 | 22.0                |
|                 |             | 12:15                   | 16.87                                                                                                                                   | 1.030                           | 0.00               | 73.40                      | 6.86                 | -39.0               |
|                 |             | 12:20                   | 17.30                                                                                                                                   | 1.030                           | 0.00               | 75.30                      | 6.92                 | -49.0               |
|                 |             | 12:25                   | 17.31                                                                                                                                   | 1.030                           | 0.00               | 75.70                      | 6.90                 | -52.0               |
| MW 8            | 4/20/2016   | 7:35                    | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 7:50                    | 11.00                                                                                                                                   | 1.210                           | 0.08               | 7.39                       | 7.32                 | -65.1               |
|                 |             | 7:55                    | 11.25                                                                                                                                   | 1.210                           | 0.08               | 3.75                       | 7.31                 | -64.8               |
|                 |             | 8:00                    | 11.24                                                                                                                                   | 1.200                           | 0.08               | 3.56                       | 7.31                 | -64.1               |
| MW 8            | 10/21/2016  | 17:18                   | --                                                                                                                                      | --                              | --                 | --                         | --                   | --                  |
|                 |             | 17:30                   | 14.61                                                                                                                                   | 1.070                           | 0.00               | 146.00                     | 7.02                 | -41.0               |
|                 |             | 17:35                   | 14.74                                                                                                                                   | 1.090                           | 0.00               | 83.50                      | 7.05                 | -64.0               |
|                 |             | 17:40                   | 14.38                                                                                                                                   | 1.120                           | 0.00               | 30.60                      | 7.02                 | -74.0               |
|                 |             | 17:45                   | 14.37                                                                                                                                   | 1.120                           | 0.00               | 30.10                      | 7.04                 | -78.0               |
|                 |             | 17:50                   | 14.35                                                                                                                                   | 1.130                           | 0.00               | 21.10                      | 7.01                 | -79.0               |
|                 |             | 17:55                   | 14.25                                                                                                                                   | 1.130                           | 0.00               | 10.60                      | 6.99                 | -80.0               |
|                 |             | 18:00                   | 14.22                                                                                                                                   | 1.130                           | 0.00               | 9.90                       | 6.99                 | -81.0               |



Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 12           | 4/21/2016   | 7:45                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:00                    | 14.37                       | 0.860                           | 1.44               | 13.30                      | 7.31                 | -43.4               |
|                 |             | 8:05                    | 14.36                       | 0.860                           | 1.43               | 16.80                      | 7.30                 | -51.5               |
|                 |             | 8:10                    | 14.36                       | 0.860                           | 1.42               | 15.70                      | 7.31                 | -52.2               |
| MW 12           | 10/25/2016  | 8:39                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:50                    | 14.58                       | 0.985                           | 0.00               | 141.00                     | 7.00                 | 96.0                |
|                 |             | 8:55                    | 14.56                       | 0.987                           | 0.00               | 40.50                      | 6.99                 | 35.0                |
|                 |             | 9:00                    | 14.68                       | 0.989                           | 0.00               | 31.20                      | 6.99                 | -14.0               |
|                 |             | 9:05                    | 14.72                       | 0.990                           | 0.00               | 23.00                      | 6.97                 | -49.0               |
|                 |             | 9:10                    | 14.66                       | 0.993                           | 0.00               | 15.40                      | 6.98                 | -67.0               |
|                 |             | 9:15                    | 14.51                       | 0.995                           | 0.00               | 5.30                       | 6.98                 | -78.0               |
|                 |             | 9:20                    | 14.53                       | 0.995                           | 0.00               | 3.70                       | 6.97                 | -83.0               |
| MW 14           | 4/19/2016   | 7:40                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 7:55                    | 12.32                       | 0.890                           | 0.16               | 12.30                      | 7.25                 | -57.3               |
|                 |             | 8:00                    | 12.35                       | 0.890                           | 0.15               | 8.71                       | 7.24                 | -56.4               |
|                 |             | 8:05                    | 12.37                       | 0.890                           | 0.14               | 4.92                       |                      | -56.2               |
| MW 14           | 10/25/2016  | 10:02                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:15                   | 13.88                       | 0.932                           | 1.48               | 38.60                      | 6.97                 | 36.0                |
|                 |             | 10:20                   | 14.15                       | 0.919                           | 1.08               | 25.50                      | 6.99                 | 8.0                 |
|                 |             | 10:25                   | 14.01                       | 0.952                           | 0.89               | 23.20                      | 6.98                 | -17.0               |
|                 |             | 10:30                   | 13.91                       | 0.959                           | 0.65               | 17.30                      | 6.97                 | -27.0               |
|                 |             | 10:35                   | 13.94                       | 0.958                           | 0.40               | 15.80                      | 6.97                 | -33.0               |
|                 |             | 10:40                   | 13.98                       | 0.958                           | 0.31               | 13.90                      | 6.97                 | -36.0               |
| MW 15           | 10/21/2016  | 13:15                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 13:25                   | 15.70                       | 0.734                           | 3.58               | 362.00                     | 7.44                 | 291.0               |
|                 |             | 13:30                   | 16.20                       | 0.737                           | 1.81               | 46.00                      | 7.36                 | 290.0               |
|                 |             | 13:35                   | 16.11                       | 0.749                           | 2.23               | 30.40                      | 7.43                 | 281.0               |
|                 |             | 13:40                   | 15.47                       | 0.763                           | 1.18               | 2.30                       | 7.30                 | 288.0               |
|                 |             | 13:45                   | 15.68                       | 0.769                           | 0.79               | 0.00                       | 7.32                 | 281.0               |
|                 |             | 13:50                   | 15.57                       | 0.771                           | 0.70               | 0.00                       | 7.31                 | 280.0               |
| MW 16           | 10/23/2016  | 15:32                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:45                   | 15.69                       | 0.773                           | 2.60               | 8.40                       | 7.32                 | 270.0               |
|                 |             | 15:50                   | 15.87                       | 0.775                           | 2.34               | 2.30                       | 7.33                 | 260.0               |
|                 |             | 15:55                   | 16.27                       | 0.781                           | 2.18               | 0.00                       | 7.37                 | 251.0               |
|                 |             | 16:00                   | 17.43                       | 0.764                           | 2.23               | 0.80                       | 7.41                 | 241.0               |
|                 |             | 16:05                   | 17.39                       | 0.767                           | 1.95               | 1.90                       | 7.43                 | 238.0               |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 21           | 10/21/2016  | 15:35                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:50                   | 13.06                       | 0.947                           | 3.99               | 93.10                      | 7.02                 | 96.0                |
|                 |             | 15:55                   | 12.92                       | 0.944                           | 3.72               | 40.80                      | 6.99                 | 92.0                |
|                 |             | 16:00                   | 12.91                       | 0.941                           | 3.36               | 17.80                      | 6.99                 | 87.0                |
|                 |             | 16:05                   | 12.85                       | 0.939                           | 3.06               | 4.30                       | 6.99                 | 83.0                |
|                 |             | 16:10                   | 12.97                       | 0.938                           | 2.78               | 0.00                       | 7.02                 | 81.0                |
| MW 28           | 4/19/2016   | 11:45                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 12:00                   | 18.03                       | 0.390                           | 7.35               | 65.20                      | 7.96                 | 58.7                |
|                 |             | 12:05                   | 17.95                       | 0.420                           | 7.36               | 19.60                      | 7.85                 | 52.2                |
|                 |             | 12:10                   | 17.96                       | 0.400                           | 7.36               | 20.20                      | 7.80                 | 51.7                |
| MW 28           | 10/22/2016  | 16:15                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 16:30                   | 17.11                       | 0.990                           | 0.90               | 612.00                     | 6.97                 | 76.0                |
|                 |             | 16:35                   | 16.99                       | 0.990                           | 0.00               | 423.00                     | 6.97                 | -39.0               |
|                 |             | 16:40                   | 16.98                       | 1.010                           | 0.00               | 390.00                     | 6.99                 | -60.0               |
|                 |             | 16:45                   | 16.89                       | 1.030                           | 0.00               | 128.00                     | 7.00                 | -73.0               |
|                 |             | 16:50                   | 16.93                       | 1.030                           | 0.00               | 78.70                      | 7.00                 | -79.0               |
|                 |             | 16:55                   | 16.98                       | 1.040                           | 0.00               | 47.30                      | 7.02                 | -84.0               |
|                 |             | 17:00                   | 17.06                       | 1.050                           | 0.00               | 39.40                      | 7.02                 | -87.0               |
|                 |             | 17:05                   | 17.00                       | 1.050                           | 0.00               | 37.90                      | 7.03                 | -89.0               |
| MW 31R          | 4/20/2016   | 8:20                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:35                    | 12.12                       | 1.240                           | 0.09               | 7.37                       | 7.30                 | -64.6               |
|                 |             | 8:40                    | 12.16                       | 1.240                           | 0.09               | 5.11                       | 7.31                 | -70.7               |
|                 |             | 8:45                    | 12.19                       | 1.240                           | 0.09               | 4.39                       | 7.30                 | -71.6               |
| MW 31R          | 10/21/2016  | 11:02                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 11:10                   | 17.21                       | 1.530                           | 0.00               | 30.90                      | 6.94                 | -67.0               |
|                 |             | 11:15                   | 17.41                       | 1.510                           | 0.00               | 0.00                       | 6.94                 | -87.0               |
|                 |             | 11:20                   | 17.46                       | 1.500                           | 0.00               | 0.00                       | 6.94                 | -108.0              |
|                 |             | 11:25                   | 17.14                       | 1.490                           | 0.00               | 0.00                       | 6.94                 | -112.0              |
|                 |             | 11:30                   | 17.46                       | 1.480                           | 0.00               | 0.00                       | 6.98                 | -118.0              |
|                 |             | 11:35                   | 17.64                       | 1.510                           | 0.00               | 0.00                       | 7.00                 | -121.0              |
|                 |             | 11:40                   | 17.32                       | 1.490                           | 0.00               | 0.00                       | 6.98                 | -123.0              |
|                 |             | 11:45                   | 17.41                       | 1.500                           | 0.00               | 0.00                       | 7.01                 | -124.0              |
| MW 37           | 10/23/2016  | 12:33                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 12:45                   | 19.29                       | 0.794                           | 3.98               | 202.00                     | 7.10                 | 312.0               |
|                 |             | 12:50                   | 18.38                       | 0.796                           | 2.30               | 99.70                      | 7.02                 | 317.0               |
|                 |             | 12:55                   | 19.05                       | 0.801                           | 2.02               | 59.10                      | 7.07                 | 313.0               |
|                 |             | 13:00                   | 19.51                       | 0.804                           | 1.94               | 45.90                      | 7.09                 | 311.0               |
|                 |             | 13:05                   | 19.98                       | 0.797                           | 1.52               | 36.10                      | 7.10                 | 312.0               |
|                 |             | 13:10                   | 19.29                       | 0.800                           | 0.43               | 32.10                      | 7.09                 | 312.0               |
|                 |             | 13:15                   | 18.99                       | 0.796                           | 0.15               | 33.50                      | 7.11                 | 311.0               |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 40           | 4/19/2016   | 9:50                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:05                   | 15.16                       | 0.920                           | 0.18               | 16.30                      | 7.23                 | -47.5               |
|                 |             | 10:10                   | 15.39                       | 0.910                           | 0.19               | 15.70                      | 7.22                 | -45.2               |
|                 |             | 10:15                   | 15.23                       | 0.910                           | 0.19               | 14.60                      | 7.21                 | -45.4               |
| MW 40           | 10/20/2016  | 13:33                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 13:40                   | 14.67                       | 1.000                           | 4.09               | 7.50                       | 7.07                 | 73.0                |
|                 |             | 13:45                   | 14.67                       | 0.970                           | 3.29               | 5.50                       | 7.12                 | 28.0                |
|                 |             | 13:50                   | 14.95                       | 0.970                           | 2.87               | 5.40                       | 7.12                 | 29.0                |
|                 |             | 13:55                   | 14.91                       | 0.960                           | 2.59               | 4.80                       | 7.12                 | 9.0                 |
|                 |             | 14:00                   | 14.84                       | 0.970                           | 2.49               | 5.00                       | 7.15                 | 10.0                |
| MW 41           | 4/19/2016   | 11:00                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 11:15                   | 16.14                       | 0.940                           | 0.24               | 3.65                       | 7.22                 | -65.3               |
|                 |             | 11:20                   | 16.24                       | 0.940                           | 0.23               | 2.51                       | 7.22                 | -65.5               |
|                 |             | 11:25                   | 16.26                       | 0.940                           | 0.23               | 2.19                       | 7.22                 | -65.6               |
| MW 41           | 10/23/2016  | 8:33                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:45                    | 15.46                       | 0.903                           | 2.48               | 0.00                       | 7.26                 | 308.0               |
|                 |             | 8:50                    | 15.67                       | 0.930                           | 2.10               | 0.00                       | 7.10                 | 152.0               |
|                 |             | 8:55                    | 15.64                       | 0.970                           | 1.82               | 5.10                       | 7.09                 | 77.0                |
|                 |             | 9:00                    | 15.78                       | 0.990                           | 1.58               | 7.10                       | 7.09                 | 28.0                |
|                 |             | 9:05                    | 16.02                       | 1.000                           | 1.37               | 6.90                       | 7.08                 | -17.0               |
|                 |             | 9:10                    | 16.18                       | 1.000                           | 1.14               | 5.90                       | 7.09                 | -50.0               |
|                 |             | 9:15                    | 16.32                       | 1.000                           | 0.91               | 4.00                       | 7.08                 | -65.0               |
|                 |             | 9:20                    | 16.39                       | 1.000                           | 0.82               | 6.80                       | 7.11                 | -71.0               |
| MW 42           | 4/19/2016   | 10:25                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:40                   | 15.44                       | 0.840                           | 0.20               | 8.97                       | 7.24                 | 31.6                |
|                 |             | 10:45                   | 15.44                       | 0.840                           | 0.19               | 5.11                       | 7.23                 | 27.4                |
|                 |             | 10:50                   | 15.48                       | 0.840                           | 0.19               | 3.83                       | 7.23                 | 27.6                |
| MW 42           | 10/23/2016  | 9:47                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:00                   | 16.27                       | 1.010                           | 3.63               | 0.20                       | 7.03                 | 76.0                |
|                 |             | 10:05                   | 16.53                       | 1.030                           | 3.00               | 0.00                       | 7.05                 | 8.0                 |
|                 |             | 10:10                   | 16.73                       | 1.030                           | 2.64               | 0.40                       | 7.03                 | -7.0                |
|                 |             | 10:15                   | 16.56                       | 1.030                           | 2.28               | 0.00                       | 7.03                 | -29.0               |
|                 |             | 10:20                   | 16.63                       | 1.030                           | 1.85               | 0.00                       | 7.04                 | -38.0               |
|                 |             | 10:25                   | 16.60                       | 1.030                           | 1.78               | 0.00                       | 7.05                 | -42.0               |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 46           | 10/23/2016  | 17:57                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 18:10                   | 16.08                       | 0.960                           | 0.00               | 231.00                     | 6.88                 | 317.0               |
|                 |             | 18:15                   | 16.35                       | 0.960                           | 0.00               | 56.20                      | 6.91                 | 307.0               |
|                 |             | 18:20                   | 16.49                       | 0.960                           | 0.00               | 47.00                      | 6.91                 | 306.0               |
|                 |             | 18:25                   | 16.58                       | 0.960                           | 0.00               | 38.60                      | 6.93                 | 302.0               |
|                 |             | 18:30                   | 15.99                       | 0.970                           | 0.00               | 21.20                      | 6.91                 | 300.0               |
|                 |             | 18:35                   | 15.67                       | 0.980                           | 0.00               | 8.20                       | 6.89                 | 295.0               |
|                 |             | 18:40                   | 15.64                       | 0.980                           | 0.00               | 7.20                       | 6.89                 | 294.0               |
| MW 49           | 4/21/2016   | 9:00                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:35                    | 12.86                       | 0.840                           | 0.07               | 9.70                       | 7.28                 | 4.1                 |
|                 |             | 9:40                    | 12.86                       | 0.840                           | 0.06               | 6.86                       | 7.27                 | 4.3                 |
|                 |             | 9:45                    | 12.87                       | 0.840                           | 0.06               | 4.92                       | 7.27                 | 4.4                 |
| MW 51           | 4/20/2016   | 9:40                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:55                    | 14.18                       | 0.950                           | 0.18               | 11.60                      | 7.31                 | 64.4                |
|                 |             | 10:00                   | 14.13                       | 0.950                           | 0.18               | 8.91                       | 7.31                 | 64.2                |
|                 |             | 10:05                   | 14.11                       | 0.950                           | 0.18               | 7.77                       | 7.31                 | 63.8                |
| MW 51           | 10/23/2016  | 16:57                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 17:10                   | 16.92                       | 1.000                           | 4.46               | 188.00                     | 7.02                 | 269.0               |
|                 |             | 17:15                   | 16.54                       | 1.010                           | 0.00               | 11.90                      | 7.03                 | 240.0               |
|                 |             | 17:20                   | 16.66                       | 1.030                           | 0.00               | 12.70                      | 7.06                 | 230.0               |
|                 |             | 17:25                   | 16.81                       | 1.020                           | 0.00               | 14.80                      | 7.11                 | 224.0               |
| MW 56           | 10/24/2016  | 10:43                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:55                   | 16.80                       | 0.941                           | 0.40               | >800                       | 7.04                 | -47.0               |
|                 |             | 11:00                   | 15.93                       | 0.946                           | 0.00               | 679.00                     | 7.01                 | -73.0               |
|                 |             | 11:05                   | 16.20                       | 0.943                           | 0.00               | 316.00                     | 7.03                 | -79.0               |
|                 |             | 11:10                   | 16.50                       | 0.941                           | 0.00               | 171.00                     | 7.05                 | -82.0               |
|                 |             | 11:15                   | 16.39                       | 0.941                           | 0.00               | 159.00                     | 7.07                 | -87.0               |
|                 |             | 11:20                   | 15.50                       | 0.944                           | 0.00               | 141.00                     | 7.01                 | -87.0               |
|                 |             | 11:25                   | 15.57                       | 0.944                           | 0.00               | 138.00                     | 7.04                 | -88.0               |
| MW 57           | 10/24/2016  | 14:40                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 14:50                   | 17.30                       | 1.080                           | 3.01               | 24.10                      | 6.74                 | 94.0                |
|                 |             | 14:55                   | 17.32                       | 1.060                           | 3.09               | 20.90                      | 6.73                 | 58.0                |
|                 |             | 15:00                   | 17.33                       | 1.070                           | 2.97               | 21.90                      | 6.75                 | 23.0                |
|                 |             | 15:05                   | 17.24                       | 1.070                           | 2.64               | 28.40                      | 6.80                 | -27.0               |
|                 |             | 15:10                   | 17.33                       | 1.070                           | 2.47               | 26.40                      | 6.81                 | -38.0               |
|                 |             | 15:15                   | 17.43                       | 1.060                           | 2.29               | 29.10                      | 6.85                 | -44.0               |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 58           | 10/25/2016  | 13:19                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 13:30                   | 16.54                       | 1.030                           | 2.83               | 558.00                     | 6.84                 | 154.0               |
|                 |             | 13:35                   | 16.71                       | 1.030                           | 0.00               | 225.00                     | 6.82                 | 163.0               |
|                 |             | 13:40                   | 16.88                       | 1.030                           | 0.00               | 39.50                      | 6.86                 | 104.0               |
|                 |             | 13:45                   | 16.88                       | 1.030                           | 0.00               | 35.50                      | 6.84                 | 70.0                |
|                 |             | 13:50                   | 16.82                       | 1.030                           | 0.00               | 26.80                      | 6.83                 | 52.0                |
|                 |             | 13:55                   | 16.80                       | 1.030                           | 0.00               | 21.60                      | 6.84                 | 27.0                |
|                 |             | 14:00                   | 17.04                       | 1.030                           | 0.00               | 19.90                      | 6.86                 | 8.0                 |
|                 |             | 14:05                   | 16.99                       | 1.030                           | 0.00               | 17.30                      | 6.85                 | 6.0                 |
| MW 61           | 10/22/2016  | 17:42                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 17:55                   | 15.67                       | 1.070                           | 1.72               | 4.60                       | 6.96                 | 5.0                 |
|                 |             | 18:00                   | 15.71                       | 1.070                           | 2.20               | 4.40                       | 6.97                 | -39.0               |
|                 |             | 18:05                   | 15.70                       | 1.070                           | 0.95               | 6.00                       | 6.98                 | -65.0               |
|                 |             | 18:10                   | 15.62                       | 1.070                           | 0.66               | 5.90                       | 6.99                 | -72.0               |
|                 |             | 18:15                   | 15.61                       | 1.070                           | 0.61               | 6.40                       | 7.00                 | -73.0               |
| MW 64           | 10/20/2016  | 9:03                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:10                    | 17.42                       | 0.747                           | 4.84               | 183.00                     | 7.22                 | 263.0               |
|                 |             | 9:15                    | 17.53                       | 0.723                           | 4.28               | 72.20                      | 7.21                 | 239.0               |
|                 |             | 9:20                    | 17.50                       | 0.746                           | 4.08               | 47.20                      | 7.20                 | 234.0               |
|                 |             | 9:25                    | 17.56                       | 0.733                           | 3.64               | 25.60                      | 7.18                 | 224.0               |
|                 |             | 9:30                    | 17.45                       | 0.723                           | 3.51               | 22.40                      | 7.20                 | 223.0               |
|                 |             | 9:35                    | 17.48                       | 0.775                           | 3.11               | 18.40                      | 7.19                 | 218.0               |
|                 |             | 9:40                    | 17.48                       | 0.771                           | 3.09               | 17.30                      | 7.19                 | 217.0               |
| MW 65           | 10/19/2016  | 15:43                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:50                   | 18.27                       | 0.908                           | 0.00               | >800                       | 6.88                 | 141.0               |
|                 |             | 15:55                   | 18.20                       | 0.906                           | 0.00               | 339.00                     | 6.99                 | 106.0               |
|                 |             | 16:05                   | 17.97                       | 0.909                           | 0.00               | 600.00                     | 7.02                 | 90.0                |
|                 |             | 16:10                   | 18.20                       | 0.907                           | 0.00               | 83.10                      | 7.03                 | 77.0                |
|                 |             | 16:15                   | 17.99                       | 0.907                           | 0.00               | 58.10                      | 7.14                 | 67.0                |
|                 |             | 16:20                   | 18.03                       | 0.907                           | 0.00               | 27.60                      | 7.16                 | 59.0                |
|                 |             | 16:25                   | 18.01                       | 0.906                           | 0.00               | 23.70                      | 7.16                 | 54.0                |
|                 |             | 16:30                   | 18.08                       | 0.905                           | 0.00               | 20.00                      | 7.19                 | 49.0                |
| MW 66           | 4/20/2016   | 10:35                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:50                   | 12.48                       | 0.870                           | 0.33               | 60.30                      | 7.32                 | -21.0               |
|                 |             | 10:55                   | 11.80                       | 0.820                           | 0.09               | 31.30                      | 7.31                 | -22.0               |
|                 |             | 11:00                   | 11.71                       | 0.820                           | 0.09               | 29.50                      | 7.31                 | -22.7               |
|                 |             | 11:05                   | 11.68                       | 0.820                           | 0.09               | 30.20                      | 7.31                 | -22.6               |



Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 66           | 10/20/2016  | 10:40                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:45                   | 15.65                       | 0.900                           | 9.89               | 43.00                      | 7.13                 | 128.0               |
|                 |             | 10:50                   | 16.58                       | 0.898                           | 0.00               | 19.40                      | 7.11                 | 102.0               |
|                 |             | 10:55                   | 16.74                       | 0.904                           | 0.00               | 11.00                      | 7.07                 | 94.0                |
|                 |             | 11:00                   | 16.99                       | 0.899                           | 0.00               | 7.20                       | 7.03                 | 75.0                |
|                 |             | 11:10                   | 16.85                       | 0.899                           | 0.00               | 4.30                       | 7.13                 | 67.0                |
|                 |             | 11:15                   | 16.75                       | 0.899                           | 0.00               | 3.20                       | 7.15                 | 66.0                |
| MW 68           | 4/19/2016   | 9:05                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:20                    | 14.85                       | 0.850                           | 0.46               | 3.94                       | 7.23                 | -32.8               |
|                 |             | 9:25                    | 14.89                       | 0.850                           | 0.45               | 3.15                       | 7.23                 | -34.6               |
|                 |             | 9:30                    | 14.44                       | 0.850                           | 0.44               | 2.48                       | 7.23                 | -34.4               |
| MW 68           | 10/20/2016  | 15:05                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:10                   | 14.61                       | 0.874                           | 0.00               | 175.10                     | 7.10                 | 156.0               |
|                 |             | 15:15                   | 14.78                       | 0.874                           | 0.00               | 98.40                      | 7.13                 | 114.0               |
|                 |             | 15:20                   | 14.89                       | 0.874                           | 0.00               | 55.30                      | 7.14                 | 82.0                |
|                 |             | 15:25                   | 14.87                       | 0.873                           | 0.00               | 44.10                      | 7.13                 | 69.0                |
|                 |             | 15:30                   | 14.92                       | 0.875                           | 0.00               | 45.90                      | 7.14                 | 44.0                |
|                 |             | 15:35                   | 14.77                       | 0.883                           | 0.00               | 40.10                      | 7.14                 | 24.0                |
|                 |             | 15:40                   | 14.88                       | 0.882                           | 0.00               | 36.10                      | 7.16                 | 21.0                |
| MW 75           | 10/23/2016  | 15:45                   | 14.81                       | 0.879                           | 0.00               | 30.10                      | 7.17                 | 20.0                |
|                 |             | 11:00                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 11:15                   | 16.82                       | 0.625                           | 4.79               | 12.20                      | 7.77                 | 238.0               |
|                 |             | 11:20                   | 16.95                       | 0.659                           | 4.49               | 6.20                       | 7.42                 | -1.0                |
|                 |             | 11:25                   | 17.12                       | 0.678                           | 4.34               | 4.40                       | 7.41                 | -63.0               |
|                 |             | 11:30                   | 17.05                       | 0.702                           | 4.05               | 3.60                       | 7.35                 | -100.0              |
|                 |             | 11:35                   | 17.05                       | 0.709                           | 3.81               | 5.50                       | 7.37                 | -112.0              |
| MW 79           | 4/19/2016   | 11:40                   | 17.10                       | 0.716                           | 3.60               | 1.90                       | 7.36                 | -117.0              |
|                 |             | 8:20                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 8:35                    | 13.43                       | 0.850                           | 0.95               | 13.20                      | 7.28                 | -10.2               |
|                 |             | 8:40                    | 13.45                       | 0.850                           | 0.78               | 5.74                       | 7.24                 | -15.1               |
| MW 79           | 10/21/2016  | 8:45                    | 13.46                       | 0.850                           | 0.75               | 3.79                       | 7.23                 | -15.6               |
|                 |             | 8:52                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:00                    | 13.66                       | 0.973                           | 3.99               | 289.00                     | 6.93                 | 117.0               |
|                 |             | 9:05                    | 13.65                       | 0.971                           | 3.57               | 175.00                     | 6.95                 | 76.0                |
|                 |             | 9:10                    | 13.76                       | 0.972                           | 3.23               | 126.00                     | 6.99                 | 68.0                |
|                 |             | 9:20                    | 13.86                       | 0.971                           | 0.00               | 25.20                      | 7.01                 | 28.0                |
|                 |             | 9:25                    | 13.80                       | 0.971                           | 0.00               | 19.60                      | 7.04                 | 14.0                |
|                 |             | 9:30                    | 13.91                       | 0.970                           | 0.00               | 9.80                       | 7.02                 | 10.0                |
|                 |             | 9:35                    | 13.87                       | 0.970                           | 0.00               | 8.20                       | 7.01                 | 8.0                 |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 80           | 10/22/2016  | 13:15                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 13:20                   | 18.48                       | 1.230                           | 2.94               | 72.30                      | 6.97                 | 26.0                |
|                 |             | 13:25                   | 18.44                       | 1.240                           | 2.54               | 33.80                      | 7.00                 | -15.0               |
|                 |             | 13:30                   | 18.80                       | 1.250                           | 2.18               | 5.80                       | 7.01                 | -35.0               |
|                 |             | 13:35                   | 18.18                       | 1.250                           | 1.31               | 10.10                      | 6.98                 | -46.0               |
|                 |             | 13:40                   | 18.23                       | 1.250                           | 0.99               | 6.50                       | 6.97                 | -49.0               |
|                 |             | 13:45                   | 18.41                       | 1.250                           | 0.77               | 0.00                       | 6.98                 | -52.0               |
| MW 81           | 10/22/2016  | 9:07                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:20                    | 15.56                       | 0.794                           | 4.61               | 78.10                      | 7.31                 | 284.0               |
|                 |             | 9:25                    | 15.73                       | 0.790                           | 4.40               | 28.50                      | 7.30                 | 278.0               |
|                 |             | 9:30                    | 15.67                       | 0.788                           | 4.11               | 18.70                      | 7.31                 | 269.0               |
|                 |             | 9:35                    | 15.64                       | 0.794                           | 3.72               | 8.50                       | 7.29                 | 259.0               |
|                 |             | 9:40                    | 15.75                       | 0.798                           | 3.52               | 0.10                       | 7.29                 | 255.0               |
| MW 82           | 10/23/2016  | 14:25                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 14:40                   | 15.59                       | 0.926                           | 5.20               | 3.30                       | 7.07                 | 276.0               |
|                 |             | 14:45                   | 15.55                       | 0.941                           | 4.33               | 9.00                       | 7.05                 | 159.0               |
|                 |             | 14:50                   | 16.17                       | 0.945                           | 4.05               | 8.90                       | 7.13                 | 68.0                |
|                 |             | 14:55                   | 15.48                       | 0.949                           | 3.67               | 9.50                       | 7.10                 | -9.0                |
|                 |             | 15:00                   | 15.83                       | 0.950                           | 3.28               | 10.00                      | 7.14                 | -60.0               |
|                 |             | 15:05                   | 14.92                       | 0.962                           | 0.00               | 11.10                      | 7.13                 | -78.0               |
|                 |             | 15:10                   | 15.01                       | 0.954                           | 0.00               | 12.40                      | 7.14                 | -83.0               |
| MW 83           | 10/22/2016  | 14:53                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:05                   | 15.80                       | 0.906                           | 0.00               | 48.70                      | 7.04                 | 19.0                |
|                 |             | 15:10                   | 16.16                       | 0.950                           | 0.00               | 24.20                      | 7.03                 | -12.0               |
|                 |             | 15:15                   | 15.70                       | 0.950                           | 0.43               | 14.30                      | 7.05                 | -50.0               |
|                 |             | 15:20                   | 15.96                       | 0.960                           | 0.58               | 4.40                       | 7.08                 | -66.0               |
|                 |             | 15:25                   | 16.09                       | 0.950                           | 0.34               | 5.90                       | 7.08                 | -71.0               |
| MW 84           | 10/24/2016  | 17:25                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 17:40                   | 14.97                       | 1.190                           | 4.50               | 229.00                     | 7.02                 | 138.0               |
|                 |             | 17:45                   | 15.51                       | 1.270                           | 0.45               | 297.00                     | 7.11                 | 141.0               |
|                 |             | 17:50                   | 15.54                       | 1.260                           | 0.00               | 333.00                     | 7.07                 | 110.0               |
|                 |             | 17:55                   | 15.18                       | 1.260                           | 0.00               | 187.00                     | 7.03                 | 103.0               |
|                 |             | 18:00                   | 15.37                       | 1.260                           | 0.00               | 204.00                     | 7.06                 | 99.0                |
|                 |             | 18:05                   | 15.40                       | 1.250                           | 0.00               | 212.00                     | 7.01                 | 97.0                |
|                 |             | 18:10                   | 15.09                       | 1.270                           | 0.00               | 133.00                     | 7.11                 | 96.0                |
|                 |             | 18:15                   | 14.99                       | 1.270                           | 0.00               | 76.30                      | 7.08                 | 97.0                |
|                 |             | 18:20                   | 14.93                       | 1.270                           | 0.00               | 58.10                      | 7.06                 | 83.0                |
|                 |             | 18:25                   | 14.80                       | 1.260                           | 0.00               | 35.50                      | 7.09                 | 79.0                |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 85           | 4/22/2016   | 9:15                    | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 9:30                    | 13.49                       | 1.190                           | 0.08               | 19.10                      | 7.45                 | -43.1               |
|                 |             | 9:35                    | 12.49                       | 1.190                           | 0.04               | 17.10                      | 7.26                 | -42.6               |
|                 |             | 9:40                    | 12.48                       | 1.190                           | 0.04               | 15.70                      | 7.26                 | -42.1               |
|                 |             | 9:45                    | 12.47                       | 1.190                           | 0.04               | 12.20                      | 7.26                 | -42.3               |
| MW 85           | 10/24/2016  | 13:13                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 13:30                   | 16.28                       | 1.240                           | 0.00               | 806.00                     | 6.89                 | -47.0               |
|                 |             | 13:35                   | 16.22                       | 1.230                           | 0.00               | 376.00                     | 6.93                 | -69.0               |
|                 |             | 13:40                   | 16.35                       | 1.230                           | 0.00               | 269.00                     | 6.94                 | -72.0               |
|                 |             | 13:45                   | 16.77                       | 1.260                           | 0.00               | 128.00                     | 6.97                 | -79.0               |
|                 |             | 13:50                   | 16.30                       | 1.270                           | 0.00               | 112.00                     | 6.94                 | -80.0               |
|                 |             | 13:55                   | 15.53                       | 1.250                           | 0.00               | 80.60                      | 6.94                 | -80.0               |
|                 |             | 14:00                   | 15.63                       | 1.240                           | 0.00               | 76.60                      | 6.92                 | -80.0               |
| MW 86           | 10/22/2016  | 10:28                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 10:40                   | 16.10                       | 1.110                           | 0.00               | 264.00                     | 6.93                 | -12.0               |
|                 |             | 10:45                   | 16.31                       | 1.110                           | 0.00               | 55.80                      | 6.99                 | -28.0               |
|                 |             | 10:50                   | 16.00                       | 1.100                           | 0.00               | 29.80                      | 6.95                 | -37.0               |
|                 |             | 10:55                   | 15.70                       | 1.100                           | 0.00               | 7.90                       | 6.95                 | -46.0               |
|                 |             | 11:00                   | 15.91                       | 1.090                           | 0.00               | 7.40                       | 6.97                 | -49.0               |
| MW 88           | 10/22/2016  | 11:35                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 11:50                   | 17.57                       | 1.280                           | 2.00               | 13.00                      | 7.00                 | 29.0                |
|                 |             | 11:55                   | 17.28                       | 1.300                           | 1.80               | 8.10                       | 6.97                 | -27.0               |
|                 |             | 12:00                   | 17.65                       | 1.290                           | 1.66               | 4.70                       | 7.02                 | -42.0               |
|                 |             | 12:05                   | 17.40                       | 1.290                           | 1.56               | 10.70                      | 6.97                 | -54.0               |
|                 |             | 12:10                   | 17.21                       | 1.290                           | 1.48               | 5.10                       | 6.98                 | -63.0               |
|                 |             | 12:15                   | 17.41                       | 1.280                           | 1.42               | 5.40                       | 6.99                 | -66.0               |
| MW 89-11        | 4/20/2016   | 12:10                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 12:24                   | 13.86                       | 1.070                           | 0.13               | 13.70                      | 7.07                 | 79.0                |
|                 |             | 12:30                   | 13.74                       | 1.070                           | 0.12               | 6.81                       | 7.07                 | 78.1                |
|                 |             | 12:35                   | 13.74                       | 1.050                           | 0.12               | 4.98                       | 7.07                 | 76.9                |
| MW 89-11        | 10/25/2016  | 15:04                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 15:15                   | 15.42                       | 1.100                           | 0.00               | 515.00                     | 6.75                 | 335.0               |
|                 |             | 15:20                   | 15.58                       | 1.100                           | 0.61               | 437.00                     | 6.79                 | 221.0               |
|                 |             | 15:25                   | 15.70                       | 1.080                           | 0.57               | 329.00                     | 6.76                 | 327.0               |
|                 |             | 15:30                   | 15.80                       | 1.070                           | 0.43               | 128.00                     | 6.78                 | 323.0               |
|                 |             | 15:40                   | 15.72                       | 1.060                           | 0.00               | 109.00                     | 6.79                 | 321.0               |
|                 |             | 15:45                   | 15.61                       | 1.069                           | 0.00               | 42.10                      | 6.79                 | 319.0               |
|                 |             | 15:50                   | 15.64                       | 1.050                           | 0.00               | 23.70                      | 6.80                 | 318.0               |
|                 |             | 15:55                   | 15.65                       | 1.050                           | 0.00               | 13.30                      | 6.81                 | 316.0               |
|                 |             | 16:00                   | 15.64                       | 1.050                           | 0.00               | 12.10                      | 6.81                 | 316.0               |

Table 5

**Well Stabilization Parameters - April and October 2016**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <i>Location</i> | <i>Date</i> | <i>Time<br/>(24 hr)</i> | <i>Temperature<br/>(°C)</i> | <i>Conductivity<br/>(mS/cm)</i> | <i>DO<br/>mg/L</i> | <i>Turbidity<br/>(NTU)</i> | <i>pH<br/>(s.u.)</i> | <i>ORP<br/>(mV)</i> |
|-----------------|-------------|-------------------------|-----------------------------|---------------------------------|--------------------|----------------------------|----------------------|---------------------|
| MW 97R-16       | 10/25/2016  | 11:58                   | --                          | --                              | --                 | --                         | --                   | --                  |
|                 |             | 12:10                   | 16.82                       | 1.260                           | 0.00               | >800                       | 6.72                 | 114.0               |
|                 |             | 12:15                   | 16.99                       | 1.270                           | 0.00               | 562.00                     | 6.72                 | 73.0                |
|                 |             | 12:20                   | 16.90                       | 1.270                           | 0.00               | 320.00                     | 6.72                 | 55.0                |
|                 |             | 12:25                   | 17.03                       | 1.280                           | 0.00               | 176.00                     | 6.72                 | 16.0                |
|                 |             | 12:30                   | 17.07                       | 1.280                           | 0.00               | 131.00                     | 6.73                 | -20.0               |
|                 |             | 12:35                   | 17.10                       | 1.280                           | 0.00               | 111.00                     | 6.72                 | -35.0               |
|                 |             | 12:40                   | 17.16                       | 1.280                           | 0.00               | 98.10                      | 6.72                 | -42.0               |
|                 |             | 12:45                   | 16.94                       | 1.250                           | 0.00               | 96.40                      | 6.72                 | -46.0               |

**Notes:**

|       |                               |
|-------|-------------------------------|
| mg/L  | milligram per litre           |
| mS/cm | millisiemens per centimetre   |
| mV    | millivolts                    |
| s.u.  | Standard Units                |
| °C    | degrees Celsius               |
| NTU   | Nephelometric Turbidity Units |

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

**Sample Location:****Sample ID:****Sample Date:****Geologic Unit:****Parameters:****Units**

| <b>MW-2</b>             | <b>MW 3</b>             | <b>MW 3</b>             | <b>MW-4</b>             | <b>MW-4</b>             | <b>MW 8</b>             |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>GW-102416-TW-029</b> | <b>GW-042016-SM-011</b> | <b>GW-102516-TW-041</b> | <b>GW-042216-SM-022</b> | <b>GW-102416-TW-031</b> | <b>GW-042016-SM-008</b> |
| <b>10/24/2016</b>       | <b>4/20/2016</b>        | <b>10/25/2016</b>       | <b>4/22/2016</b>        | <b>10/24/2016</b>       | <b>4/20/2016</b>        |
| <b>3d</b>               | <b>3s</b>               | <b>3s</b>               | <b>3d</b>               | <b>3d</b>               | <b>3s</b>               |

**Volatile Organic Compounds**

|                                                      |      |         |        |        |        |        |        |
|------------------------------------------------------|------|---------|--------|--------|--------|--------|--------|
| Acetone                                              | mg/L | 0.01 U  | 0.47 J | 2.5 U  | 5 U    | 5.6 U  | 2 U    |
| Benzene                                              | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Bromodichloromethane                                 | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Bromoform                                            | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Bromomethane (Methyl bromide)                        | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L | 0.01 U  | 5 U    | 2.5 U  | 5 U    | 5.6 U  | 2 U    |
| Carbon disulfide                                     | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Carbon tetrachloride                                 | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Chlorobenzene                                        | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Chloroethane                                         | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Chloroform (Trichloromethane)                        | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Chloromethane (Methyl chloride)                      | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Dibromochloromethane                                 | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 1,1-Dichloroethane                                   | mg/L | 0.001 U | 0.25 J | 0.11 J | 0.29 J | 0.33 J | 0.2 U  |
| 1,2-Dichloroethane                                   | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 1,1-Dichloroethene                                   | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| cis-1,2-Dichloroethene                               | mg/L | 0.001 U | 7.4    | 1.9    | 9.4    | 7.9    | 4.9    |
| trans-1,2-Dichloroethene                             | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.23 J | 0.2 J  | 0.2 U  |
| 1,2-Dichloropropane                                  | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| cis-1,3-Dichloropropene                              | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| trans-1,3-Dichloropropene                            | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Ethylbenzene                                         | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 2-Hexanone                                           | mg/L | 0.01 U  | 5 U    | 2.5 U  | 5 U    | 5.6 U  | 2 U    |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L | 0.01 U  | 5 U    | 2.5 U  | 5 U    | 5.6 U  | 2 U    |
| Methylene chloride                                   | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Styrene                                              | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 1,1,2,2-Tetrachloroethane                            | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Tetrachloroethene                                    | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Toluene                                              | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| 1,1,1-Trichloroethane                                | mg/L | 0.001 U | 0.39 J | 0.33   | 0.5 U  | 0.56 U | 0.2 U  |
| 1,1,2-Trichloroethane                                | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.5 U  | 0.56 U | 0.2 U  |
| Trichloroethene                                      | mg/L | 0.001 U | 12     | 4.9    | 0.8    | 1.7    | 0.17 J |
| Vinyl chloride                                       | mg/L | 0.001 U | 0.5 U  | 0.25 U | 0.53   | 0.63   | 2.1    |
| Xylenes (total)                                      | mg/L | 0.002 U | 1 U    | 0.5 U  | 1 U    | 1.1 U  | 0.4 U  |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <b>Sample Location:</b>                              |              | <b>MW 8</b>             | <b>MW 8</b>             | <b>MW 12</b>            | <b>MW 12</b>            | <b>MW 14</b>            | <b>MW 14</b>            |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample ID:</b>                                    |              | <b>GW-042016-SM-009</b> | <b>GW-102116-TW-011</b> | <b>GW-042116-SM-016</b> | <b>GW-102516-TW-035</b> | <b>GW-041916-SM-001</b> | <b>GW-102516-TW-036</b> |
| <b>Sample Date:</b>                                  |              | <b>4/20/2016</b>        | <b>10/21/2016</b>       | <b>4/21/2016</b>        | <b>10/25/2016</b>       | <b>4/19/2016</b>        | <b>10/25/2016</b>       |
| <b>Geologic Unit:</b>                                |              | <b>3s</b>               | <b>3s</b>               | <b>3i</b>               | <b>3i</b>               | <b>3s</b>               | <b>3s</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> | <b>(Duplicate)</b>      |                         |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 2 U                     | 2 U                     | 0.05 U                  | 0.05 U                  | 1.7 U                   | 2 U                     |
| Benzene                                              | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Bromodichloromethane                                 | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Bromoform                                            | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 2 U                     | 2 U                     | 0.05 U                  | 0.05 U                  | 1.7 U                   | 2 U                     |
| Carbon disulfide                                     | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Carbon tetrachloride                                 | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Chlorobenzene                                        | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Chloroethane                                         | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Chloroform (Trichloromethane)                        | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Dibromochloromethane                                 | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,1-Dichloroethane                                   | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,2-Dichloroethane                                   | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,1-Dichloroethene                                   | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| cis-1,2-Dichloroethene                               | mg/L         | 4.9                     | 4.3                     | 0.13                    | 0.12                    | 4.4                     | 4.4                     |
| trans-1,2-Dichloroethene                             | mg/L         | 0.2 U                   | 0.2 U                   | 0.0018 J                | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,2-Dichloropropane                                  | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| cis-1,3-Dichloropropene                              | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| trans-1,3-Dichloropropene                            | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Ethylbenzene                                         | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 2-Hexanone                                           | mg/L         | 2 U                     | 2 U                     | 0.05 U                  | 0.05 U                  | 1.7 U                   | 2 U                     |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 2 U                     | 2 U                     | 0.05 U                  | 0.05 U                  | 1.7 U                   | 2 U                     |
| Methylene chloride                                   | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Styrene                                              | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Tetrachloroethene                                    | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Toluene                                              | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,1,1-Trichloroethane                                | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| 1,1,2-Trichloroethane                                | mg/L         | 0.2 U                   | 0.2 U                   | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Trichloroethene                                      | mg/L         | 0.16 J                  | 0.39                    | 0.005 U                 | 0.005 U                 | 0.17 U                  | 0.2 U                   |
| Vinyl chloride                                       | mg/L         | 2                       | 1.3                     | 0.005 U                 | 0.005 U                 | 0.14 J                  | 0.12 J                  |
| Xylenes (total)                                      | mg/L         | 0.4 U                   | 0.4 U                   | 0.01 U                  | 0.01 U                  | 0.33 U                  | 0.4 U                   |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.



Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**Anderson, Indiana**

| <b>Sample Location:</b>                              | <b>MW 15</b>            | <b>MW 16</b>            | <b>MW 21</b>            | <b>MW 28</b>            | <b>MW 28</b>            | <b>MW 31R</b>           |
|------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample ID:</b>                                    | <b>GW-102116-TW-009</b> | <b>GW-102316-TW-026</b> | <b>GW-102116-TW-010</b> | <b>GW-041916-SM-007</b> | <b>GW-102216-TW-019</b> | <b>GW-042016-SM-010</b> |
| <b>Sample Date:</b>                                  | <b>10/21/2016</b>       | <b>10/23/2016</b>       | <b>10/21/2016</b>       | <b>4/19/2016</b>        | <b>10/22/2016</b>       | <b>4/20/2016</b>        |
| <b>Geologic Unit:</b>                                | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               | <b>3d</b>               | <b>3d</b>               | <b>1</b>                |
| <b>Parameters:</b>                                   | <b>Units</b>            |                         |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L                    | 1 U                     | 0.01 U                  | 0.01 U                  | 0.33 U                  | 0.5 U                   |
| Benzene                                              | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Bromodichloromethane                                 | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Bromoform                                            | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Bromomethane (Methyl bromide)                        | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L                    | 1 U                     | 0.01 U                  | 0.01 U                  | 0.33 U                  | 0.5 U                   |
| Carbon disulfide                                     | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Carbon tetrachloride                                 | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Chlorobenzene                                        | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Chloroethane                                         | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Chloroform (Trichloromethane)                        | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Chloromethane (Methyl chloride)                      | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Dibromochloromethane                                 | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,1-Dichloroethane                                   | mg/L                    | 0.053 J                 | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,2-Dichloroethane                                   | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,1-Dichloroethene                                   | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| cis-1,2-Dichloroethene                               | mg/L                    | 1.7                     | 0.001 U                 | 0.001 U                 | 0.77                    | 0.86                    |
| trans-1,2-Dichloroethene                             | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.013 J                 | 0.016 J                 |
| 1,2-Dichloropropane                                  | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| cis-1,3-Dichloropropene                              | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| trans-1,3-Dichloropropene                            | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Ethylbenzene                                         | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 2-Hexanone                                           | mg/L                    | 1 U                     | 0.01 U                  | 0.01 U                  | 0.33 U                  | 0.5 U                   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L                    | 1 U                     | 0.01 U                  | 0.01 U                  | 0.33 U                  | 0.5 U                   |
| Methylene chloride                                   | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Styrene                                              | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,1,2,2-Tetrachloroethane                            | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Tetrachloroethene                                    | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Toluene                                              | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,1,1-Trichloroethane                                | mg/L                    | 0.37                    | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| 1,1,2-Trichloroethane                                | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Trichloroethene                                      | mg/L                    | 2.5                     | 0.001 U                 | 0.001 U                 | 0.033 U                 | 0.05 U                  |
| Vinyl chloride                                       | mg/L                    | 0.1 U                   | 0.001 U                 | 0.001 U                 | 0.15                    | 0.19                    |
| Xylenes (total)                                      | mg/L                    | 0.2 U                   | 0.002 U                 | 0.002 U                 | 0.067 U                 | 0.1 U                   |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**Anderson, Indiana**

| <b>Sample Location:</b>                              |              | <b>MW 31R</b>           | <b>MW 31R</b>           | <b>MW 37</b>            | <b>MW 40</b>            | <b>MW 40</b>            | <b>MW 41</b>            |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample ID:</b>                                    |              | <b>GW-102116-TW-007</b> | <b>GW-102116-TW-008</b> | <b>GW-102316-TW-024</b> | <b>GW-041916-SM-004</b> | <b>GW-102016-TW-004</b> | <b>GW-041916-SM-006</b> |
| <b>Sample Date:</b>                                  |              | <b>10/21/2016</b>       | <b>10/21/2016</b>       | <b>10/23/2016</b>       | <b>4/19/2016</b>        | <b>10/20/2016</b>       | <b>4/19/2016</b>        |
| <b>Geologic Unit:</b>                                |              | <b>1</b>                | <b>1</b>                | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               | <b>3d</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> |                         | <b>(Duplicate)</b>      |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 7.1 U                   | 7.1 U                   | 0.01 U                  | 2 U                     | 2.5 U                   | 2 U                     |
| Benzene                                              | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Bromodichloromethane                                 | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Bromoform                                            | mg/L         | 0.5 J                   | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 7.1 U                   | 7.1 U                   | 0.01 U                  | 2 U                     | 2.5 U                   | 2 U                     |
| Carbon disulfide                                     | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Carbon tetrachloride                                 | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Chlorobenzene                                        | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Chloroethane                                         | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Chloroform (Trichloromethane)                        | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Dibromochloromethane                                 | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 1,1-Dichloroethane                                   | mg/L         | 0.43 J                  | 0.43 J                  | 0.001 U                 | 0.23                    | 0.16 J                  | 0.2 U                   |
| 1,2-Dichloroethane                                   | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 1,1-Dichloroethene                                   | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| cis-1,2-Dichloroethene                               | mg/L         | 18                      | 18                      | 0.001 U                 | 7                       | 5                       | 6.4                     |
| trans-1,2-Dichloroethene                             | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.1 J                   | 0.25 U                  | 0.1 J                   |
| 1,2-Dichloropropane                                  | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| cis-1,3-Dichloropropene                              | mg/L         | 0.39 J                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| trans-1,3-Dichloropropene                            | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Ethylbenzene                                         | mg/L         | 0.76                    | 0.69 J                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 2-Hexanone                                           | mg/L         | 7.1 U                   | 7.1 U                   | 0.01 U                  | 2 U                     | 2.5 U                   | 2 U                     |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 7.1 U                   | 7.1 U                   | 0.01 U                  | 2 U                     | 2.5 U                   | 2 U                     |
| Methylene chloride                                   | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Styrene                                              | mg/L         | 0.16 J                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Tetrachloroethene                                    | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Toluene                                              | mg/L         | 2                       | 1.9                     | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 1,1,1-Trichloroethane                                | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| 1,1,2-Trichloroethane                                | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.2 U                   | 0.25 U                  | 0.2 U                   |
| Trichloroethene                                      | mg/L         | 0.71 U                  | 0.71 U                  | 0.001 U                 | 0.31                    | 0.16 J                  | 0.2 U                   |
| Vinyl chloride                                       | mg/L         | 3.4                     | 3.4                     | 0.001 U                 | 0.36                    | 0.31                    | 0.45                    |
| Xylenes (total)                                      | mg/L         | 1.9                     | 1.7                     | 0.002 U                 | 0.4 U                   | 0.5 U                   | 0.4 U                   |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**Anderson, Indiana**

| <b>Sample Location:</b>                              |              | <b>MW 41</b>            | <b>MW 42</b>            | <b>MW 42</b>            | <b>MW 46</b>            | <b>MW 49</b>            | <b>MW 51</b>            |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample ID:</b>                                    |              | <b>GW-102316-TW-021</b> | <b>GW-041916-SM-005</b> | <b>GW-102316-TW-022</b> | <b>GW-102316-TW-028</b> | <b>GW-042116-SM-018</b> | <b>GW-042016-SM-012</b> |
| <b>Sample Date:</b>                                  |              | <b>10/23/2016</b>       | <b>4/19/2016</b>        | <b>10/23/2016</b>       | <b>10/23/2016</b>       | <b>4/21/2016</b>        | <b>4/20/2016</b>        |
| <b>Geologic Unit:</b>                                |              | <b>3d</b>               | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> |                         |                         |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 3.3 U                   | 1.7 U                   | 2 U                     | 0.01 U                  | 0.33 U                  | 0.05 U                  |
| Benzene                                              | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Bromodichloromethane                                 | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Bromoform                                            | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 3.3 U                   | 1.7 U                   | 2 U                     | 0.01 U                  | 0.33 U                  | 0.05 U                  |
| Carbon disulfide                                     | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Carbon tetrachloride                                 | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Chlorobenzene                                        | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Chloroethane                                         | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Chloroform (Trichloromethane)                        | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Dibromochloromethane                                 | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,1-Dichloroethane                                   | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,2-Dichloroethane                                   | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,1-Dichloroethene                                   | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| cis-1,2-Dichloroethene                               | mg/L         | 5.2                     | 4.1                     | 3.2                     | 0.001 U                 | 0.83                    | 0.011                   |
| trans-1,2-Dichloroethene                             | mg/L         | 0.33 U                  | 0.19                    | 0.14 J                  | 0.001 U                 | 0.02 J                  | 0.005 U                 |
| 1,2-Dichloropropane                                  | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| cis-1,3-Dichloropropene                              | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| trans-1,3-Dichloropropene                            | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Ethylbenzene                                         | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 2-Hexanone                                           | mg/L         | 3.3 U                   | 1.7 U                   | 2 U                     | 0.01 U                  | 0.33 U                  | 0.05 U                  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 3.3 U                   | 1.7 U                   | 2 U                     | 0.01 U                  | 0.33 U                  | 0.05 U                  |
| Methylene chloride                                   | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Styrene                                              | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Tetrachloroethene                                    | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Toluene                                              | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,1,1-Trichloroethane                                | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| 1,1,2-Trichloroethane                                | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.005 U                 |
| Trichloroethene                                      | mg/L         | 0.33 U                  | 0.17 U                  | 0.2 U                   | 0.001 U                 | 0.033 U                 | 0.15                    |
| Vinyl chloride                                       | mg/L         | 0.35                    | 0.092 J                 | 0.1 J                   | 0.001 U                 | 0.011 J                 | 0.0035 J                |
| Xylenes (total)                                      | mg/L         | 0.67 U                  | 0.33 U                  | 0.4 U                   | 0.002 U                 | 0.067 U                 | 0.01 U                  |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**Anderson, Indiana**

|                                                      |              |                         |                         |                         |                         |                         |                         |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample Location:</b>                              |              | <b>MW 51</b>            | <b>MW 56</b>            | <b>MW 57</b>            | <b>MW 58</b>            | <b>MW 61</b>            | <b>MW 64</b>            |
| <b>Sample ID:</b>                                    |              | <b>GW-102316-TW-027</b> | <b>GW-102416-TW-030</b> | <b>GW-102416-TW-033</b> | <b>GW-102516-TW-038</b> | <b>GW-102216-TW-020</b> | <b>GW-102016-TW-002</b> |
| <b>Sample Date:</b>                                  |              | <b>10/23/2016</b>       | <b>10/24/2016</b>       | <b>10/24/2016</b>       | <b>10/25/2016</b>       | <b>10/22/2016</b>       | <b>10/20/2016</b>       |
| <b>Geologic Unit:</b>                                |              | <b>3s</b>               | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> |                         |                         |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 0.08 U                  | 0.01 U                  | 0.02 U                  | 0.5 U                   | 0.01 U                  | 0.025 U                 |
| Benzene                                              | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Bromodichloromethane                                 | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Bromoform                                            | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 0.08 U                  | 0.01 U                  | 0.02 U                  | 0.5 U                   | 0.01 U                  | 0.025 U                 |
| Carbon disulfide                                     | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Carbon tetrachloride                                 | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Chlorobenzene                                        | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Chloroethane                                         | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Chloroform (Trichloromethane)                        | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Dibromochloromethane                                 | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 1,1-Dichloroethane                                   | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.035 J                 | 0.001 U                 | 0.0044                  |
| 1,2-Dichloroethane                                   | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 1,1-Dichloroethene                                   | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| cis-1,2-Dichloroethene                               | mg/L         | 0.012                   | 0.001 U                 | 0.0042                  | 1.1                     | 0.00035 J               | 0.062                   |
| trans-1,2-Dichloroethene                             | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.025 J                 | 0.001 U                 | 0.0061                  |
| 1,2-Dichloropropane                                  | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| cis-1,3-Dichloropropene                              | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| trans-1,3-Dichloropropene                            | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Ethylbenzene                                         | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 2-Hexanone                                           | mg/L         | 0.08 U                  | 0.01 U                  | 0.02 U                  | 0.5 U                   | 0.01 U                  | 0.025 U                 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 0.08 U                  | 0.01 U                  | 0.02 U                  | 0.5 U                   | 0.01 U                  | 0.025 U                 |
| Methylene chloride                                   | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Styrene                                              | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Tetrachloroethene                                    | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Toluene                                              | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 1,1,1-Trichloroethane                                | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| 1,1,2-Trichloroethane                                | mg/L         | 0.008 U                 | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Trichloroethene                                      | mg/L         | 0.14                    | 0.001 U                 | 0.002 U                 | 0.05 U                  | 0.001 U                 | 0.0025 U                |
| Vinyl chloride                                       | mg/L         | 0.0053 J                | 0.001 U                 | 0.046                   | 0.085                   | 0.00069 J               | 0.039                   |
| Xylenes (total)                                      | mg/L         | 0.016 U                 | 0.002 U                 | 0.004 U                 | 0.1 U                   | 0.002 U                 | 0.005 U                 |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| <b>Sample Location:</b>                              |              | <b>MW 65</b>            | <b>MW 66</b>            | <b>MW 66</b>            | <b>MW 68</b>            | <b>MW 68</b>            | <b>MW 75</b>            |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample ID:</b>                                    |              | <b>GW-101916-TW-001</b> | <b>GW-042016-SM-013</b> | <b>GW-102016-TW-003</b> | <b>GW-041916-SM-003</b> | <b>GW-102016-TW-005</b> | <b>GW-102316-TW-023</b> |
| <b>Sample Date:</b>                                  |              | <b>10/19/2016</b>       | <b>4/20/2016</b>        | <b>10/20/2016</b>       | <b>4/19/2016</b>        | <b>10/20/2016</b>       | <b>10/23/2016</b>       |
| <b>Geologic Unit:</b>                                |              | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               | <b>3s</b>               | <b>3s</b>               | <b>3d</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> |                         |                         |                         |                         |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 0.01 U                  | 0.5 U                   | 1 U                     | 1.7 U                   | 2 U                     | 0.01 U                  |
| Benzene                                              | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Bromodichloromethane                                 | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Bromoform                                            | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 0.01 U                  | 0.5 U                   | 1 U                     | 1.7 U                   | 2 U                     | 0.01 U                  |
| Carbon disulfide                                     | mg/L         | 0.00057 J               | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Carbon tetrachloride                                 | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Chlorobenzene                                        | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Chloroethane                                         | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Chloroform (Trichloromethane)                        | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Dibromochloromethane                                 | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 1,1-Dichloroethane                                   | mg/L         | 0.0016                  | 0.05                    | 0.083 J                 | 0.12 J                  | 0.16 J                  | 0.001 U                 |
| 1,2-Dichloroethane                                   | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 1,1-Dichloroethene                                   | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| cis-1,2-Dichloroethene                               | mg/L         | 0.028                   | 1.1                     | 1.8                     | 4.5                     | 3.5                     | 0.0007 J                |
| trans-1,2-Dichloroethene                             | mg/L         | 0.0012                  | 0.052                   | 0.075 J                 | 0.12 J                  | 0.14 J                  | 0.001 U                 |
| 1,2-Dichloropropane                                  | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| cis-1,3-Dichloropropene                              | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| trans-1,3-Dichloropropene                            | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Ethylbenzene                                         | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 2-Hexanone                                           | mg/L         | 0.01 U                  | 0.5 U                   | 1 U                     | 1.7 U                   | 2 U                     | 0.01 U                  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 0.01 U                  | 0.5 U                   | 1 U                     | 1.7 U                   | 2 U                     | 0.01 U                  |
| Methylene chloride                                   | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Styrene                                              | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Tetrachloroethene                                    | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Toluene                                              | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 1,1,1-Trichloroethane                                | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| 1,1,2-Trichloroethane                                | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 0.17 U                  | 0.2 U                   | 0.001 U                 |
| Trichloroethene                                      | mg/L         | 0.001 U                 | 0.05 U                  | 0.1 U                   | 1                       | 1.7                     | 0.001 U                 |
| Vinyl chloride                                       | mg/L         | 0.0014                  | 0.14                    | 0.14                    | 0.15 J                  | 0.15 J                  | 0.001 U                 |
| Xylenes (total)                                      | mg/L         | 0.002 U                 | 0.1 U                   | 0.2 U                   | 0.33 U                  | 0.4 U                   | 0.002 U                 |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Sample Location:                                     |      | MW 79            | MW 79            | MW 80            | MW 81            | MW 82            | MW 83            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample ID:                                           |      | GW-041916-SM-002 | GW-102116-TW-006 | GW-102216-TW-016 | GW-102216-TW-012 | GW-102316-TW-025 | GW-102216-TW-017 |
| Sample Date:                                         |      | 4/19/2016        | 10/21/2016       | 10/22/2016       | 10/22/2016       | 10/23/2016       | 10/22/2016       |
| Geologic Unit:                                       |      | 3s               | 3s               | 3d               | B                | B                | B                |
| Parameters:                                          |      | Units            |                  |                  |                  |                  |                  |
| Volatile Organic Compounds                           |      |                  |                  |                  |                  |                  |                  |
| Acetone                                              | mg/L | 1 U              | 1 U              | 0.018 U          | 0.05 U           | 0.01 U           | 0.01 U           |
| Benzene                                              | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Bromodichloromethane                                 | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Bromoform                                            | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Bromomethane (Methyl bromide)                        | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L | 1 U              | 1 U              | 0.018 U          | 0.05 U           | 0.01 U           | 0.01 U           |
| Carbon disulfide                                     | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Carbon tetrachloride                                 | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Chlorobenzene                                        | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Chloroethane                                         | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Chloroform (Trichloromethane)                        | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Chloromethane (Methyl chloride)                      | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Dibromochloromethane                                 | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,1-Dichloroethane                                   | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.0017 J         | 0.001 U          | 0.001 U          |
| 1,2-Dichloroethane                                   | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,1-Dichloroethene                                   | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| cis-1,2-Dichloroethene                               | mg/L | 2.4              | 2.1              | 0.025            | 0.077            | 0.001 U          | 0.001 U          |
| trans-1,2-Dichloroethene                             | mg/L | 0.094 J          | 0.085 J          | 0.00078 J        | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,2-Dichloropropane                                  | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| cis-1,3-Dichloropropene                              | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| trans-1,3-Dichloropropene                            | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Ethylbenzene                                         | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 2-Hexanone                                           | mg/L | 1 U              | 1 U              | 0.018 U          | 0.05 U           | 0.01 U           | 0.01 U           |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L | 1 U              | 1 U              | 0.018 U          | 0.05 U           | 0.01 U           | 0.01 U           |
| Methylene chloride                                   | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Styrene                                              | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,1,2,2-Tetrachloroethane                            | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Tetrachloroethene                                    | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Toluene                                              | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,1,1-Trichloroethane                                | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| 1,1,2-Trichloroethane                                | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Trichloroethene                                      | mg/L | 0.1 U            | 0.1 U            | 0.0018 U         | 0.005 U          | 0.001 U          | 0.001 U          |
| Vinyl chloride                                       | mg/L | 0.18             | 0.15             | 0.049            | 0.026            | 0.001 U          | 0.0053           |
| Xylenes (total)                                      | mg/L | 0.2 U            | 0.2 U            | 0.0036 U         | 0.01 U           | 0.002 U          | 0.002 U          |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.



Table 6

**Summary of Groundwater Analytical Data - VOCs**  
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**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

|                                                      |              |                         |                         |                         |                         |                         |                         |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample Location:</b>                              |              | <b>MW 83</b>            | <b>MW 84</b>            | <b>MW 85</b>            | <b>MW 85</b>            | <b>MW 85</b>            | <b>MW 86</b>            |
| <b>Sample ID:</b>                                    |              | <b>GW-102216-TW-018</b> | <b>GW-102416-TW-034</b> | <b>GW-042216-SM-023</b> | <b>GW-042216-SM-024</b> | <b>GW-102416-TW-032</b> | <b>GW-102216-TW-013</b> |
| <b>Sample Date:</b>                                  |              | <b>10/22/2016</b>       | <b>10/24/2016</b>       | <b>4/22/2016</b>        | <b>4/22/2016</b>        | <b>10/24/2016</b>       | <b>10/22/2016</b>       |
| <b>Geologic Unit:</b>                                |              | <b>B</b>                | <b>3s</b>               | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               | <b>3d</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> | <b>(Duplicate)</b>      |                         |                         | <b>(Duplicate)</b>      |                         |                         |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 0.01 U                  | 0.01 U                  | 5 U                     | 5 U                     | 5.6 U                   | 0.01 U                  |
| Benzene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Bromodichloromethane                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Bromoform                                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 0.01 U                  | 0.01 U                  | 5 U                     | 5 U                     | 5.6 U                   | 0.01 U                  |
| Carbon disulfide                                     | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Carbon tetrachloride                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Chlorobenzene                                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Chloroethane                                         | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Chloroform (Trichloromethane)                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Dibromochloromethane                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 1,1-Dichloroethane                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.31 J                  | 0.33 J                  | 0.34 J                  | 0.001 U                 |
| 1,2-Dichloroethane                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 1,1-Dichloroethene                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| cis-1,2-Dichloroethene                               | mg/L         | 0.001 U                 | 0.001                   | 9.9                     | 10                      | 8.4                     | 0.001 U                 |
| trans-1,2-Dichloroethene                             | mg/L         | 0.001 U                 | 0.001 U                 | 0.23 J                  | 0.26 J                  | 0.26 J                  | 0.001 U                 |
| 1,2-Dichloropropane                                  | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| cis-1,3-Dichloropropene                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| trans-1,3-Dichloropropene                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Ethylbenzene                                         | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 2-Hexanone                                           | mg/L         | 0.01 U                  | 0.01 U                  | 5 U                     | 5 U                     | 5.6 U                   | 0.01 U                  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 0.01 U                  | 0.01 U                  | 5 U                     | 5 U                     | 5.6 U                   | 0.01 U                  |
| Methylene chloride                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Styrene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Tetrachloroethene                                    | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Toluene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 1,1,1-Trichloroethane                                | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| 1,1,2-Trichloroethane                                | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Trichloroethene                                      | mg/L         | 0.001 U                 | 0.001 U                 | 0.5 U                   | 0.5 U                   | 0.56 U                  | 0.001 U                 |
| Vinyl chloride                                       | mg/L         | 0.0053                  | 0.001 U                 | 0.34 J                  | 0.35 J                  | 0.42 J                  | 0.001 U                 |
| Xylenes (total)                                      | mg/L         | 0.002 U                 | 0.002 U                 | 1 U                     | 1 U                     | 1.1 U                   | 0.002 U                 |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

|                                                      |              |                         |                         |                         |                         |                         |                         |
|------------------------------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Sample Location:</b>                              |              | <b>MW 88</b>            | <b>MW 88</b>            | <b>MW89-11</b>          | <b>MW89-11</b>          | <b>MW89-11</b>          | <b>MW89-11</b>          |
| <b>Sample ID:</b>                                    |              | <b>GW-102216-TW-014</b> | <b>GW-102216-TW-015</b> | <b>GW-042016-SM-014</b> | <b>GW-042016-SM-015</b> | <b>GW-102516-TW-039</b> | <b>GW-102516-TW-040</b> |
| <b>Sample Date:</b>                                  |              | <b>10/22/2016</b>       | <b>10/22/2016</b>       | <b>4/20/2016</b>        | <b>4/20/2016</b>        | <b>10/25/2016</b>       | <b>10/25/2016</b>       |
| <b>Geologic Unit:</b>                                |              | <b>3d</b>               | <b>3d</b>               | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               | <b>3s</b>               |
| <b>Parameters:</b>                                   | <b>Units</b> |                         | <b>(Duplicate)</b>      |                         | <b>(Duplicate)</b>      |                         | <b>(Duplicate)</b>      |
| <b>Volatile Organic Compounds</b>                    |              |                         |                         |                         |                         |                         |                         |
| Acetone                                              | mg/L         | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  |
| Benzene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Bromodichloromethane                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Bromoform                                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Bromomethane (Methyl bromide)                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L         | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  |
| Carbon disulfide                                     | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Carbon tetrachloride                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Chlorobenzene                                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Chloroethane                                         | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Chloroform (Trichloromethane)                        | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Chloromethane (Methyl chloride)                      | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Dibromochloromethane                                 | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,1-Dichloroethane                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,2-Dichloroethane                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,1-Dichloroethene                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| cis-1,2-Dichloroethene                               | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.0003 J                | 0.001 U                 |
| trans-1,2-Dichloroethene                             | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,2-Dichloropropane                                  | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| cis-1,3-Dichloropropene                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| trans-1,3-Dichloropropene                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Ethylbenzene                                         | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 2-Hexanone                                           | mg/L         | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L         | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  | 0.01 U                  |
| Methylene chloride                                   | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Styrene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,1,2,2-Tetrachloroethane                            | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Tetrachloroethene                                    | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Toluene                                              | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| 1,1,1-Trichloroethane                                | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.0019                  | 0.0019                  |
| 1,1,2-Trichloroethane                                | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Trichloroethene                                      | mg/L         | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Vinyl chloride                                       | mg/L         | 0.0019                  | 0.0018                  | 0.001 U                 | 0.001 U                 | 0.001 U                 | 0.001 U                 |
| Xylenes (total)                                      | mg/L         | 0.002 U                 | 0.002 U                 | 0.002 U                 | 0.002 U                 | 0.002 U                 | 0.002 U                 |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 6

**Summary of Groundwater Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

**Sample Location:** MW97R-16  
**Sample ID:** GW-102516-TW-037  
**Sample Date:** 10/25/2016  
**Geologic Unit:** 3d  
**Parameters:** Units

**Volatile Organic Compounds**

|                                                      |      |         |
|------------------------------------------------------|------|---------|
| Acetone                                              | mg/L | 0.01 U  |
| Benzene                                              | mg/L | 0.001 U |
| Bromodichloromethane                                 | mg/L | 0.001 U |
| Bromoform                                            | mg/L | 0.001 U |
| Bromomethane (Methyl bromide)                        | mg/L | 0.001 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L | 0.01 U  |
| Carbon disulfide                                     | mg/L | 0.001 U |
| Carbon tetrachloride                                 | mg/L | 0.001 U |
| Chlorobenzene                                        | mg/L | 0.001 U |
| Chloroethane                                         | mg/L | 0.001 U |
| Chloroform (Trichloromethane)                        | mg/L | 0.001 U |
| Chloromethane (Methyl chloride)                      | mg/L | 0.001 U |
| Dibromochloromethane                                 | mg/L | 0.001 U |
| 1,1-Dichloroethane                                   | mg/L | 0.001 U |
| 1,2-Dichloroethane                                   | mg/L | 0.001 U |
| 1,1-Dichloroethene                                   | mg/L | 0.001 U |
| cis-1,2-Dichloroethene                               | mg/L | 0.0012  |
| trans-1,2-Dichloroethene                             | mg/L | 0.001 U |
| 1,2-Dichloropropane                                  | mg/L | 0.001 U |
| cis-1,3-Dichloropropene                              | mg/L | 0.001 U |
| trans-1,3-Dichloropropene                            | mg/L | 0.001 U |
| Ethylbenzene                                         | mg/L | 0.001 U |
| 2-Hexanone                                           | mg/L | 0.01 U  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L | 0.01 U  |
| Methylene chloride                                   | mg/L | 0.001 U |
| Styrene                                              | mg/L | 0.001 U |
| 1,1,2,2-Tetrachloroethane                            | mg/L | 0.001 U |
| Tetrachloroethene                                    | mg/L | 0.001 U |
| Toluene                                              | mg/L | 0.001 U |
| 1,1,1-Trichloroethane                                | mg/L | 0.001 U |
| 1,1,2-Trichloroethane                                | mg/L | 0.001 U |
| Trichloroethene                                      | mg/L | 0.001 U |
| Vinyl chloride                                       | mg/L | 0.001 U |
| Xylenes (total)                                      | mg/L | 0.002 U |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 7

**Summary of Surface Water Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

**Sample Location:****Sample ID:****Sample Date:****Parameters:****Units**

**Pond Intake**  
**SW-042216-SM-002**  
**4/22/2016**

**Pond Intake**  
**SW-071916-TP-001**  
**7/19/2016**

**Pond Intake**  
**SW-102416-TW-001**  
**10/24/2016**

**Pond Intake**  
**SW-102416-TW-002**  
**10/24/2016**  
**(Duplicate)**

**Pond North**  
**SW-042216-SM-001**  
**4/22/2016**

**Pond North**  
**SW-071916-TP-002**  
**7/19/2016**

**Volatile Organic Compounds**

|                                                      |      |          |          |          |          |          |          |
|------------------------------------------------------|------|----------|----------|----------|----------|----------|----------|
| Acetone                                              | mg/L | 0.025 U  | 0.017 U  | 0.018 U  | 0.02 U   | 0.05 U   | 0.025 U  |
| Benzene                                              | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Bromodichloromethane                                 | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Bromoform                                            | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Bromomethane (Methyl bromide)                        | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L | 0.025 U  | 0.017 U  | 0.018 U  | 0.02 U   | 0.05 U   | 0.025 U  |
| Carbon disulfide                                     | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Carbon tetrachloride                                 | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Chlorobenzene                                        | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Chloroethane                                         | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Chloroform (Trichloromethane)                        | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Chloromethane (Methyl chloride)                      | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Dibromochloromethane                                 | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 1,1-Dichloroethane                                   | mg/L | 0.0034   | 0.0028   | 0.0018   | 0.0018 J | 0.0059   | 0.0045   |
| 1,2-Dichloroethane                                   | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 1,1-Dichloroethene                                   | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| cis-1,2-Dichloroethene                               | mg/L | 0.077    | 0.055    | 0.036    | 0.034    | 0.12     | 0.09     |
| trans-1,2-Dichloroethene                             | mg/L | 0.003    | 0.0016 J | 0.001 J  | 0.0009 J | 0.0053   | 0.003    |
| 1,2-Dichloropropane                                  | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| cis-1,3-Dichloropropene                              | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| trans-1,3-Dichloropropene                            | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Ethylbenzene                                         | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 2-Hexanone                                           | mg/L | 0.025 U  | 0.017 U  | 0.018 U  | 0.02 U   | 0.05 U   | 0.025 U  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L | 0.025 U  | 0.017 U  | 0.018 U  | 0.02 U   | 0.05 U   | 0.025 U  |
| Methylene chloride                                   | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.0053 U | 0.0025 U |
| Styrene                                              | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 1,1,2,2-Tetrachloroethane                            | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Tetrachloroethene                                    | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Toluene                                              | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 1,1,1-Trichloroethane                                | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| 1,1,2-Trichloroethane                                | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Trichloroethene                                      | mg/L | 0.0025 U | 0.0017 U | 0.0018 U | 0.002 U  | 0.005 U  | 0.0025 U |
| Vinyl chloride                                       | mg/L | 0.0044   | 0.0049   | 0.0031   | 0.0029   | 0.0078   | 0.0064   |
| Xylenes (total)                                      | mg/L | 0.005 U  | 0.0033 U | 0.0036 U | 0.004 U  | 0.01 U   | 0.005 U  |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 7

**Summary of Surface Water Analytical Data - VOCs**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

**Sample Location:****Sample ID:****Sample Date:****Parameters:**

|              |                         |                         |
|--------------|-------------------------|-------------------------|
|              | <b>Pond North</b>       | <b>Pond North</b>       |
|              | <b>SW-071916-TP-003</b> | <b>SW-102416-TW-003</b> |
|              | <b>7/19/2016</b>        | <b>10/24/2016</b>       |
| <b>Units</b> | <b>(Duplicate)</b>      |                         |

**Volatile Organic Compounds**

|                                                      |      |          |         |
|------------------------------------------------------|------|----------|---------|
| Acetone                                              | mg/L | 0.025 U  | 0.33 U  |
| Benzene                                              | mg/L | 0.0025 U | 0.033 U |
| Bromodichloromethane                                 | mg/L | 0.0025 U | 0.033 U |
| Bromoform                                            | mg/L | 0.0025 U | 0.033 U |
| Bromomethane (Methyl bromide)                        | mg/L | 0.0025 U | 0.033 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | mg/L | 0.025 U  | 0.33 U  |
| Carbon disulfide                                     | mg/L | 0.0025 U | 0.033 U |
| Carbon tetrachloride                                 | mg/L | 0.0025 U | 0.033 U |
| Chlorobenzene                                        | mg/L | 0.0025 U | 0.033 U |
| Chloroethane                                         | mg/L | 0.0025 U | 0.033 U |
| Chloroform (Trichloromethane)                        | mg/L | 0.0025 U | 0.033 U |
| Chloromethane (Methyl chloride)                      | mg/L | 0.0025 U | 0.033 U |
| Dibromochloromethane                                 | mg/L | 0.0025 U | 0.033 U |
| 1,1-Dichloroethane                                   | mg/L | 0.0041   | 0.026 J |
| 1,2-Dichloroethane                                   | mg/L | 0.0025 U | 0.033 U |
| 1,1-Dichloroethene                                   | mg/L | 0.0025 U | 0.033 U |
| cis-1,2-Dichloroethene                               | mg/L | 0.081    | 0.5     |
| trans-1,2-Dichloroethene                             | mg/L | 0.0027   | 0.021 J |
| 1,2-Dichloropropane                                  | mg/L | 0.0025 U | 0.033 U |
| cis-1,3-Dichloropropene                              | mg/L | 0.0025 U | 0.033 U |
| trans-1,3-Dichloropropene                            | mg/L | 0.0025 U | 0.033 U |
| Ethylbenzene                                         | mg/L | 0.0025 U | 0.033 U |
| 2-Hexanone                                           | mg/L | 0.025 U  | 0.33 U  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | mg/L | 0.025 U  | 0.33 U  |
| Methylene chloride                                   | mg/L | 0.0025 U | 0.033 U |
| Styrene                                              | mg/L | 0.0025 U | 0.033 U |
| 1,1,2,2-Tetrachloroethane                            | mg/L | 0.0025 U | 0.033 U |
| Tetrachloroethene                                    | mg/L | 0.0025 U | 0.033 U |
| Toluene                                              | mg/L | 0.0025 U | 0.033 U |
| 1,1,1-Trichloroethane                                | mg/L | 0.0025 U | 0.033 U |
| 1,1,2-Trichloroethane                                | mg/L | 0.0025 U | 0.033 U |
| Trichloroethene                                      | mg/L | 0.0025 U | 0.033 U |
| Vinyl chloride                                       | mg/L | 0.0062   | 0.033 U |
| Xylenes (total)                                      | mg/L | 0.005 U  | 0.067 U |

**Notes:**

mg/L - milligram per litre

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Table 8

**Preliminary Screening for Anaerobic Biodegradation Process  
2016 Annual Monitoring Report  
2915 Dr. Martin Luther King Jr. Boulevard,  
Anderson, Indiana**

| <i>Analysis</i>              | <i>Concentration in Most Contaminated Zone</i>   | <i>Value</i> | <i>AOC 1- South Court Plume</i> | <i>Former WWTP Plume</i> |
|------------------------------|--------------------------------------------------|--------------|---------------------------------|--------------------------|
| Oxygen*                      | <0.5 mg/L<br>>5mg/L                              | 3<br>-3      | 3                               | 3                        |
| Nitrate*                     | < 1 mg/L                                         | 2            | 2                               | 2                        |
| Ferrous Iron*                | > 1 mg/L                                         | 3            | 3                               | 3                        |
| Sulfate*                     | <20 mg/L                                         | 2            | 0                               | 0                        |
| Sulfide*                     | >1mg/L                                           | 3            | 0                               | 0                        |
| Methane*                     | <0.5 mg/L<br>>0.5mg/L                            | 0<br>3       | 0                               | 0                        |
| ORP*                         | <50 mV<br><-100mV                                | 1<br>2       | 1                               | 1                        |
| pH*                          | 5 < pH < 9<br>5 > pH >9                          | 0<br>-2      | 0                               | 0                        |
| TOC                          | > 20 mg/L                                        | 2            | 0                               | 0                        |
| Temperature*                 | >20°C                                            | 1            | 0                               | 0                        |
| Alkalinity                   | >2x background                                   | 1            | 0                               | 0                        |
| Chloride*                    | >2x background                                   | 2            | 0                               | 2                        |
| BTEX*                        | >0.1 mg/L                                        | 2            | 0                               | 0                        |
| TCE*                         | Material released<br>Daughter product of PCE     | 0<br>2       | 0                               | 0                        |
| DCE*                         | Material released<br>Daughter product of TCE/TCA | 0<br>2       | 2                               | 2                        |
| VC*                          | Material released<br>Daughter product of DCE     | 0<br>2       | 2                               | 2                        |
| 1,1,1-TCA*                   | Material released                                | 0            | 0                               | 0                        |
| DCA                          | Daughter product of TCA                          | 2            | 2                               | 2                        |
| Chloroethane*                | Daughter product of DCA or VC                    | 2            | 0                               | 0                        |
| Ethene/Ethane                | >0.01mg/L<br>>0.1 mg/L                           | 2<br>3       | 2                               | 2                        |
| <b>Total Points Awarded:</b> |                                                  |              | <b>17</b>                       | <b>19</b>                |

**Notes:**

\* required

Score interpretation:

Score 0 to 5 means there is inadequate evidence for anaerobic biodegradation

Score 6 to 14 means there is limited evidence for anaerobic biodegradation

Score 15 to 20 means there is adequate evidence for anaerobic biodegradation

Score &gt; 20 means there is strong evidence for anaerobic biodegradation (U.S. EPA, 1998)

**Reference:**

U.S. EPA. 1998. Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, Office of Research and Development, Washington, DC. EPA/600/R-98/128. September, 1998.

Table 9

**Trend Test Summary**  
**2016 Annual Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Location             | Date Range   | Analyte                         |                   |                                 |
|----------------------|--------------|---------------------------------|-------------------|---------------------------------|
|                      |              | TCE                             | cis-1,2-DCE       | Vinyl chloride                  |
| MW-2                 | 2007 -- 2016 | --                              | --                | --                              |
| MW 3                 | 2005 -- 2016 | NT or Decreasing                | NT or Decreasing  | NT or Decreasing <sup>(1)</sup> |
| MW-4                 | 2005 -- 2016 | --                              | NT or Decreasing  | NT or Decreasing                |
| MW 8                 | 2005 -- 2016 | NT or Decreasing                | NT or Decreasing  | NT or Decreasing                |
| MW 12                | 2005 -- 2016 | NT or Decreasing                | NT or Decreasing  | --                              |
| MW 14                | 2005 -- 2016 | --                              | NT or Decreasing  | NT or Decreasing                |
| MW 15 <sup>(2)</sup> | 2005 -- 2016 | NT or Decreasing                | NT or Decreasing  | NT or Decreasing                |
| MW 16                | 2005 -- 2016 | --                              | --                | --                              |
| MW 21 <sup>(2)</sup> | 2005 -- 2016 | --                              | --                | --                              |
| MW 28                | 2005 -- 2016 | --                              | --                | <b>Increasing</b>               |
| MW 31R               | 2005 -- 2016 | NT or Decreasing <sup>(1)</sup> | NT or Decreasing  | NT or Decreasing                |
| MW 37                | 2005 -- 2016 | --                              | --                | --                              |
| MW 40                | 2005 -- 2016 | --                              | NT or Decreasing  | NT or Decreasing                |
| MW 41                | 2005 -- 2016 | --                              | NT or Decreasing  | <b>Increasing</b>               |
| MW 42                | 2005 -- 2016 | --                              | NT or Decreasing  | NT or Decreasing                |
| MW 46                | 2005 -- 2016 | --                              | --                | --                              |
| MW 49                | 2005 -- 2016 | --                              | <b>Increasing</b> | NT or Decreasing                |
| MW 51                | 2008 -- 2016 | NT or Decreasing                | NT or Decreasing  | --                              |
| MW 56                | 2005 -- 2016 | --                              | --                | --                              |
| MW 57                | 2005 -- 2016 | --                              | --                | --                              |
| MW 58                | 2005 -- 2016 | --                              | --                | <b>Increasing</b>               |
| MW 61                | 2005 -- 2016 | --                              | --                | --                              |
| MW 64                | 2005 -- 2016 | --                              | --                | <b>Increasing</b>               |
| MW 65                | 2005 -- 2016 | --                              | NT or Decreasing  | NT or Decreasing                |
| MW 66                | 2005 -- 2016 | --                              | --                | <b>Increasing</b>               |
| MW 68                | 2005 -- 2016 | <b>Increasing</b>               | NT or Decreasing  | NT or Decreasing                |
| MW 75                | 2005 -- 2016 | --                              | --                | --                              |
| MW 76                | 2005 -- 2014 | --                              | --                | --                              |
| MW 79                | 2005 -- 2016 | --                              | <b>Increasing</b> | NT or Decreasing                |
| MW 80                | 2005 -- 2016 | --                              | --                | NT or Decreasing                |
| MW 81                | 2005 -- 2016 | --                              | --                | <b>Increasing</b>               |
| MW 82                | 2005 -- 2016 | --                              | --                | --                              |
| MW 83                | 2005 -- 2016 | --                              | --                | --                              |
| MW 84                | 2005 -- 2016 | --                              | --                | --                              |
| MW 85                | 2008 -- 2016 | --                              | --                | NT or Decreasing                |
| MW 86                | 2010 -- 2016 | --                              | --                | --                              |
| MW 88                | 2010 -- 2016 | --                              | --                | --                              |
| MW 89-11             | 2011 -- 2016 | --                              | --                | --                              |
| MW97R-16             | 2016 -- 2016 | --                              | --                | --                              |
| Pond Intake          | 2005 -- 2016 | --                              | --                | --                              |
| Pond North           | 2005 -- 2016 | --                              | --                | --                              |

**Notes:**

<sup>(1)</sup> Trend test was calculated using detected values only, due to elevated detection limits for non-detects.

<sup>(2)</sup> Due to changes in sampling frequency, earlier data were combined into annual averages.

Due a gap in the monitoring record, the assumption of data equally spaced through time was not met. Therefore supplementary tests were performed (see text for details).

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects) or insufficient data.

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found.

Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Well MW 76 was not sampled during the 2016 monitoring event.



# Appendices

# Appendix A

## MW 97R-16 Stratigraphic and Instrumentation Log



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: MLK BLVD

PROJECT NUMBER: 17302

CLIENT: RACER TRUST

LOCATION: FORMER ANDERSON GUIDE FACILITY

HOLE DESIGNATION: MW 97R-16

DATE COMPLETED: May 23, 2016

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: S. Melecosky

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                                   | ELEV.<br>ft      | MONITORING WELL                  | SAMPLE |          |         |          |           |
|-----------------|-----------------------------------------------------------------------|------------------|----------------------------------|--------|----------|---------|----------|-----------|
|                 |                                                                       |                  |                                  | NUMBER | INTERVAL | REC (%) | N' VALUE | PID (ppm) |
|                 | GROUND SURFACE<br>TOP OF RISER                                        | 865.04<br>864.87 |                                  |        |          |         |          |           |
|                 | TOPSOIL                                                               |                  |                                  |        |          |         |          |           |
| 2               | CL-CLAY, with sand, firm, low plasticity, gray, moist                 | 864.24           | FLUSHMOUNT CASING<br>CONCRETE    | 1      |          | 100     |          | 0         |
| 4               | - with silt at 4.8ft BGS                                              |                  | 2" PVC WELL                      |        |          |         |          | 0         |
| 6               |                                                                       |                  |                                  |        |          |         |          |           |
| 8               | ML-SILT, trace clay, low plasticity, brown, moist                     | 858.74           | BENTONITE                        | 2      |          | 100     |          | 0         |
| 10              | SP-SAND, trace gravel, loose, medium grained, well sorted, brown, wet | 856.24           |                                  |        |          |         |          | 0         |
| 12              |                                                                       |                  |                                  |        |          |         |          | 0         |
| 14              | - grey at 13.1ft BGS                                                  |                  | No. 2 SAND<br>2" PVC WELL SCREEN | 3      |          | 100     |          | 0         |

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017302-T08-SC-2016.GPJ CRA\_CORP.GDT 1/4/17



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: MLK BLVD

PROJECT NUMBER: 17302

CLIENT: RACER TRUST

LOCATION: FORMER ANDERSON GUIDE FACILITY

HOLE DESIGNATION: MW 97R-16

DATE COMPLETED: May 23, 2016

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: S. Melecosky

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS                    | ELEV.<br>ft | MONITORING WELL | SAMPLE |          |         |          |           |
|-----------------|--------------------------------------------------------|-------------|-----------------|--------|----------|---------|----------|-----------|
|                 |                                                        |             |                 | NUMBER | INTERVAL | REC (%) | N' VALUE | PID (ppm) |
| 18              |                                                        |             |                 |        |          |         |          | 0         |
|                 |                                                        |             |                 | 4      | 64       |         |          |           |
|                 |                                                        |             |                 |        |          |         |          | 0         |
| 20              | CL-CLAY, trace silt, firm, low plasticity, gray, moist | 845.84      |                 |        |          |         |          |           |
|                 | END OF BOREHOLE @ 20.0ft BGS                           | 845.04      |                 |        |          |         |          |           |
| 22              |                                                        |             |                 |        |          |         |          |           |
| 24              |                                                        |             |                 |        |          |         |          |           |
| 26              |                                                        |             |                 |        |          |         |          |           |
| 28              |                                                        |             |                 |        |          |         |          |           |
| 30              |                                                        |             |                 |        |          |         |          |           |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017302-T08-SC-2016.GPJ CRA\_CORP.GDT 1/4/17

## Appendix B

# Laboratory Analytical Reports

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-63789-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

5/4/2016 2:05:51 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| 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.                                                                    |
| E         | Result exceeded calibration range.                                                                             |
| F2        | MS/MSD RPD exceeds control limits                                                                              |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

**Job ID: 240-63789-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-63789-1

#### Comments

Moved chromium to SSOW T011 at the request of GHD. A revised COC was provided on April 22, 2016.

#### Receipt

The samples were received on 4/22/2016 7:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

#### GC/MS VOA

Method(s) 8260B: The following sample was submitted for volatile analysis with insufficient preservation (pH>2): GW-041916-SM-006 (240-63789-6).

Method(s) 8260B: The laboratory control sample (LCS) for 228368 recovered outside control limits for the following analyte(s): Bromomethane. Bromomethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

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

#### VOA Prep

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-63789-1   | GW-041916-SM-001 | Water  | 04/19/16 08:07 | 04/22/16 07:55 |
| 240-63789-2   | GW-041916-SM-002 | Water  | 04/19/16 08:48 | 04/22/16 07:55 |
| 240-63789-3   | GW-041916-SM-003 | Water  | 04/19/16 09:33 | 04/22/16 07:55 |
| 240-63789-4   | GW-041916-SM-004 | Water  | 04/19/16 10:17 | 04/22/16 07:55 |
| 240-63789-5   | GW-041916-SM-005 | Water  | 04/19/16 10:53 | 04/22/16 07:55 |
| 240-63789-6   | GW-041916-SM-006 | Water  | 04/19/16 11:27 | 04/22/16 07:55 |
| 240-63789-7   | GW-041916-SM-007 | Water  | 04/19/16 12:13 | 04/22/16 07:55 |
| 240-63789-8   | GW-042016-SM-008 | Water  | 04/20/16 08:02 | 04/22/16 07:55 |
| 240-63789-9   | GW-042016-SM-009 | Water  | 04/20/16 08:05 | 04/22/16 07:55 |
| 240-63789-10  | RB-042016-SM-001 | Water  | 04/20/16 08:15 | 04/22/16 07:55 |
| 240-63789-11  | GW-042016-SM-010 | Water  | 04/20/16 08:47 | 04/22/16 07:55 |
| 240-63789-12  | GW-042016-SM-011 | Water  | 04/20/16 09:23 | 04/22/16 07:55 |
| 240-63789-13  | GW-042016-SM-012 | Water  | 04/20/16 10:07 | 04/22/16 07:55 |
| 240-63789-14  | GW-042016-SM-013 | Water  | 04/20/16 11:07 | 04/22/16 07:55 |
| 240-63789-15  | GW-042016-SM-014 | Water  | 04/20/16 12:37 | 04/22/16 07:55 |
| 240-63789-16  | GW-042016-SM-015 | Water  | 04/20/16 12:40 | 04/22/16 07:55 |
| 240-63789-17  | RB-042016-SM-002 | Water  | 04/20/16 12:50 | 04/22/16 07:55 |
| 240-63789-18  | GW-042116-SM-016 | Water  | 04/21/16 08:13 | 04/22/16 07:55 |
| 240-63789-20  | GW-042116-SM-018 | Water  | 04/21/16 09:47 | 04/22/16 07:55 |
| 240-63789-24  | TB-042116-SM-001 | Water  | 04/21/16 13:00 | 04/22/16 07:55 |

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

## Client Sample ID: GW-041916-SM-001

## Lab Sample ID: 240-63789-1

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4400   |           | 170 | 43  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| Vinyl chloride         | 140    | J         | 170 | 48  | ug/L | 166.67  |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-002

## Lab Sample ID: 240-63789-2

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 2400   |           | 100 | 26  | ug/L | 100     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 94     | J         | 100 | 30  | ug/L | 100     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 180    |           | 100 | 29  | ug/L | 100     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-003

## Lab Sample ID: 240-63789-3

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 120    | J         | 170 | 50  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 4500   |           | 170 | 43  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 120    | J         | 170 | 50  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| Trichloroethene          | 1000   |           | 170 | 37  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| Vinyl chloride           | 150    | J         | 170 | 48  | ug/L | 166.67  |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-004

## Lab Sample ID: 240-63789-4

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 230    |           | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 7000   |           | 200 | 52  | ug/L | 200     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 100    | J         | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| Trichloroethene          | 310    |           | 200 | 44  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 360    |           | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-005

## Lab Sample ID: 240-63789-5

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 4100   |           | 170 | 43  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 190    |           | 170 | 50  | ug/L | 166.67  |   | 8260B  | Total/NA  |
| Vinyl chloride           | 92     | J         | 170 | 48  | ug/L | 166.67  |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-006

## Lab Sample ID: 240-63789-6

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 6400   |           | 200 | 52  | ug/L | 200     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 100    | J         | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 450    |           | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-041916-SM-007

## Lab Sample ID: 240-63789-7

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 770    |           | 33 | 8.7 | ug/L | 33.33   |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 13     | J         | 33 | 10  | ug/L | 33.33   |   | 8260B  | Total/NA  |
| Vinyl chloride           | 150    |           | 33 | 9.7 | ug/L | 33.33   |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042016-SM-008

## Lab Sample ID: 240-63789-8

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

## Client Sample ID: GW-042016-SM-008 (Continued)

## Lab Sample ID: 240-63789-8

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4900   |           | 200 | 52  | ug/L | 200     |   | 8260B  | Total/NA  |
| Methylene Chloride     | 120    | J B       | 200 | 66  | ug/L | 200     |   | 8260B  | Total/NA  |
| Trichloroethene        | 170    | J         | 200 | 44  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 2100   |           | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042016-SM-009

## Lab Sample ID: 240-63789-9

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4900   |           | 200 | 52  | ug/L | 200     |   | 8260B  | Total/NA  |
| Methylene Chloride     | 130    | J B       | 200 | 66  | ug/L | 200     |   | 8260B  | Total/NA  |
| Trichloroethene        | 160    | J         | 200 | 44  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 2000   |           | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: RB-042016-SM-001

## Lab Sample ID: 240-63789-10

No Detections.

## Client Sample ID: GW-042016-SM-010

## Lab Sample ID: 240-63789-11

| Analyte                | Result | Qualifier | RL   | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 310    | J         | 500  | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 15000  |           | 500  | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Ethylbenzene           | 460    | J         | 500  | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Methylene Chloride     | 420    | J B       | 500  | 170 | ug/L | 500     |   | 8260B  | Total/NA  |
| Toluene                | 1500   |           | 500  | 120 | ug/L | 500     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 1500   |           | 500  | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| Xylenes, Total         | 1000   |           | 1000 | 260 | ug/L | 500     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042016-SM-011

## Lab Sample ID: 240-63789-12

| Analyte                | Result | Qualifier | RL   | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane  | 390    | J         | 500  | 220 | ug/L | 500     |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 250    | J         | 500  | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| Acetone                | 470    | J         | 5000 | 470 | ug/L | 500     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 7400   |           | 500  | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Methylene Chloride     | 410    | J B       | 500  | 170 | ug/L | 500     |   | 8260B  | Total/NA  |
| Trichloroethene        | 12000  |           | 500  | 110 | ug/L | 500     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042016-SM-012

## Lab Sample ID: 240-63789-13

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 11     |           | 5.0 | 1.3 | ug/L | 5       |   | 8260B  | Total/NA  |
| Methylene Chloride     | 3.0    | J B       | 5.0 | 1.7 | ug/L | 5       |   | 8260B  | Total/NA  |
| Trichloroethene        | 150    |           | 5.0 | 1.1 | ug/L | 5       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 3.5    | J         | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042016-SM-013

## Lab Sample ID: 240-63789-14

| Analyte                | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 50     |           | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 1100   |           | 50 | 13  | ug/L | 50      |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

### Client Sample ID: GW-042016-SM-013 (Continued)

Lab Sample ID: 240-63789-14

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Methylene Chloride       | 31     | J B       | 50 | 17  | ug/L | 50      |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 52     |           | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| Vinyl chloride           | 140    |           | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |

### Client Sample ID: GW-042016-SM-014

Lab Sample ID: 240-63789-15

No Detections.

### Client Sample ID: GW-042016-SM-015

Lab Sample ID: 240-63789-16

No Detections.

### Client Sample ID: RB-042016-SM-002

Lab Sample ID: 240-63789-17

| Analyte | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 2.0    | J         | 10  | 0.94 | ug/L | 1       |   | 8260B  | Total/NA  |
| Toluene | 0.38   | J         | 1.0 | 0.23 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-042116-SM-016

Lab Sample ID: 240-63789-18

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 130    |           | 5.0 | 1.3 | ug/L | 5       |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 1.8    | J         | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-042116-SM-018

Lab Sample ID: 240-63789-20

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 830    |           | 33 | 8.7 | ug/L | 33.33   |   | 8260B  | Total/NA  |
| Methylene Chloride       | 27     | J B       | 33 | 11  | ug/L | 33.33   |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 20     | J         | 33 | 10  | ug/L | 33.33   |   | 8260B  | Total/NA  |
| Vinyl chloride           | 11     | J         | 33 | 9.7 | ug/L | 33.33   |   | 8260B  | Total/NA  |

### Client Sample ID: TB-042116-SM-001

Lab Sample ID: 240-63789-24

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-001

Date Collected: 04/19/16 08:07

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-1

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,1,2,2-Tetrachloroethane   | 170    | U         | 170  | 37  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,1,2-Trichloroethane       | 170    | U         | 170  | 40  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,1-Dichloroethane          | 170    | U         | 170  | 50  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,1-Dichloroethene          | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,2-Dichloroethane          | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 1,2-Dichloropropane         | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 2-Hexanone                  | 1700   | U         | 1700 | 80  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Acetone                     | 1700   | U         | 1700 | 160 | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Benzene                     | 170    | U         | 170  | 58  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Bromoform                   | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Bromomethane                | 170    | U *       | 170  | 73  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Carbon disulfide            | 170    | U         | 170  | 63  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Carbon tetrachloride        | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Chlorobenzene               | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Ethyl Chloride              | 170    | U         | 170  | 53  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Chloroform                  | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Chloromethane               | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| cis-1,2-Dichloroethene      | 4400   |           | 170  | 43  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| cis-1,3-Dichloropropene     | 170    | U         | 170  | 77  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Dichlorobromomethane        | 170    | U         | 170  | 48  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Ethylbenzene                | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 2-Butanone (MEK)            | 1700   | U         | 1700 | 88  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| 4-Methyl-2-pentanone (MIBK) | 1700   | U         | 1700 | 170 | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Methylene Chloride          | 170    | U         | 170  | 55  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Styrene                     | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Tetrachloroethene           | 170    | U         | 170  | 52  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Toluene                     | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| trans-1,2-Dichloroethene    | 170    | U         | 170  | 50  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| trans-1,3-Dichloropropene   | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Trichloroethene             | 170    | U         | 170  | 37  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Vinyl chloride              | 140    | J         | 170  | 48  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Xylenes, Total              | 330    | U         | 330  | 87  | ug/L |   |          | 05/02/16 13:59 | 166.67  |
| Chlorodibromomethane        | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 13:59 | 166.67  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |          | 05/02/16 13:59 | 166.67  |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 61 - 120 |          | 05/02/16 13:59 | 166.67  |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 05/02/16 13:59 | 166.67  |
| Dibromofluoromethane (Surr)  | 95        |           | 79 - 120 |          | 05/02/16 13:59 | 166.67  |

Client Sample ID: GW-041916-SM-002

Date Collected: 04/19/16 08:48

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-2

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 100    | U         | 100 | 44  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 1,1,2,2-Tetrachloroethane | 100    | U         | 100 | 22  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 1,1,2-Trichloroethane     | 100    | U         | 100 | 24  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 1,1-Dichloroethane        | 100    | U         | 100 | 30  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 1,1-Dichloroethene        | 100    | U         | 100 | 45  | ug/L |   |          | 05/02/16 14:22 | 100     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-002

Date Collected: 04/19/16 08:48

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 100       | U         | 100      | 23  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 1,2-Dichloropropane          | 100       | U         | 100      | 25  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 2-Hexanone                   | 1000      | U         | 1000     | 48  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Acetone                      | 1000      | U         | 1000     | 94  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Benzene                      | 100       | U         | 100      | 35  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Bromoform                    | 100       | U         | 100      | 56  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Bromomethane                 | 100       | U *       | 100      | 44  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Carbon disulfide             | 100       | U         | 100      | 38  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Carbon tetrachloride         | 100       | U         | 100      | 43  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Chlorobenzene                | 100       | U         | 100      | 25  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Ethyl Chloride               | 100       | U         | 100      | 32  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Chloroform                   | 100       | U         | 100      | 25  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Chloromethane                | 100       | U         | 100      | 44  | ug/L |   |          | 05/02/16 14:22 | 100     |
| cis-1,2-Dichloroethene       | 2400      |           | 100      | 26  | ug/L |   |          | 05/02/16 14:22 | 100     |
| cis-1,3-Dichloropropene      | 100       | U         | 100      | 46  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Dichlorobromomethane         | 100       | U         | 100      | 29  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Ethylbenzene                 | 100       | U         | 100      | 25  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 2-Butanone (MEK)             | 1000      | U         | 1000     | 53  | ug/L |   |          | 05/02/16 14:22 | 100     |
| 4-Methyl-2-pentanone (MIBK)  | 1000      | U         | 1000     | 99  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Methylene Chloride           | 100       | U         | 100      | 33  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Styrene                      | 100       | U         | 100      | 45  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Tetrachloroethene            | 100       | U         | 100      | 31  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Toluene                      | 100       | U         | 100      | 23  | ug/L |   |          | 05/02/16 14:22 | 100     |
| trans-1,2-Dichloroethene     | 94        | J         | 100      | 30  | ug/L |   |          | 05/02/16 14:22 | 100     |
| trans-1,3-Dichloropropene    | 100       | U         | 100      | 56  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Trichloroethene              | 100       | U         | 100      | 22  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Vinyl chloride               | 180       |           | 100      | 29  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Xylenes, Total               | 200       | U         | 200      | 52  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Chlorodibromomethane         | 100       | U         | 100      | 43  | ug/L |   |          | 05/02/16 14:22 | 100     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |     |      |   |          | 05/02/16 14:22 | 100     |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 61 - 120 |     |      |   |          | 05/02/16 14:22 | 100     |
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |     |      |   |          | 05/02/16 14:22 | 100     |
| Dibromofluoromethane (Surr)  | 96        |           | 79 - 120 |     |      |   |          | 05/02/16 14:22 | 100     |

Client Sample ID: GW-041916-SM-003

Date Collected: 04/19/16 09:33

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,1,1,2-Tetrachloroethane | 170    | U         | 170  | 37  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,1,2-Trichloroethane     | 170    | U         | 170  | 40  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,1-Dichloroethane        | 120    | J         | 170  | 50  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,1-Dichloroethene        | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,2-Dichloroethane        | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 1,2-Dichloropropane       | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 2-Hexanone                | 1700   | U         | 1700 | 80  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Acetone                   | 1700   | U         | 1700 | 160 | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Benzene                   | 170    | U         | 170  | 58  | ug/L |   |          | 05/02/16 14:44 | 166.67  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-003

Date Collected: 04/19/16 09:33

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Bromomethane                | 170    | U *       | 170  | 73  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Carbon disulfide            | 170    | U         | 170  | 63  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Carbon tetrachloride        | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Chlorobenzene               | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Ethyl Chloride              | 170    | U         | 170  | 53  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Chloroform                  | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Chloromethane               | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| cis-1,2-Dichloroethene      | 4500   |           | 170  | 43  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| cis-1,3-Dichloropropene     | 170    | U         | 170  | 77  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Dichlorobromomethane        | 170    | U         | 170  | 48  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Ethylbenzene                | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 2-Butanone (MEK)            | 1700   | U         | 1700 | 88  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| 4-Methyl-2-pentanone (MIBK) | 1700   | U         | 1700 | 170 | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Methylene Chloride          | 170    | U         | 170  | 55  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Styrene                     | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Tetrachloroethene           | 170    | U         | 170  | 52  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Toluene                     | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| trans-1,2-Dichloroethene    | 120    | J         | 170  | 50  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| trans-1,3-Dichloropropene   | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Trichloroethene             | 1000   |           | 170  | 37  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Vinyl chloride              | 150    | J         | 170  | 48  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Xylenes, Total              | 330    | U         | 330  | 87  | ug/L |   |          | 05/02/16 14:44 | 166.67  |
| Chlorodibromomethane        | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 14:44 | 166.67  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 78 - 125 |          | 05/02/16 14:44 | 166.67  |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 61 - 120 |          | 05/02/16 14:44 | 166.67  |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 05/02/16 14:44 | 166.67  |
| Dibromofluoromethane (Surr)  | 95        |           | 79 - 120 |          | 05/02/16 14:44 | 166.67  |

Client Sample ID: GW-041916-SM-004

Date Collected: 04/19/16 10:17

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,1,2,2-Tetrachloroethane | 200    | U         | 200  | 44  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,1,2-Trichloroethane     | 200    | U         | 200  | 48  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,1-Dichloroethane        | 230    |           | 200  | 60  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,1-Dichloroethene        | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,2-Dichloroethane        | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 1,2-Dichloropropane       | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 2-Hexanone                | 2000   | U         | 2000 | 96  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Acetone                   | 2000   | U         | 2000 | 190 | ug/L |   |          | 05/02/16 15:06 | 200     |
| Benzene                   | 200    | U         | 200  | 70  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Bromoform                 | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 15:06 | 200     |
| Bromomethane              | 200    | U *       | 200  | 88  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Carbon disulfide          | 200    | U         | 200  | 76  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Carbon tetrachloride      | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Chlorobenzene             | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 15:06 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-004

Date Collected: 04/19/16 10:17

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Ethyl Chloride              | 200    | U         | 200  | 64  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Chloroform                  | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Chloromethane               | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 15:06 | 200     |
| cis-1,2-Dichloroethene      | 7000   |           | 200  | 52  | ug/L |   |          | 05/02/16 15:06 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 92  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 58  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 15:06 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 110 | ug/L |   |          | 05/02/16 15:06 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 200 | ug/L |   |          | 05/02/16 15:06 | 200     |
| Methylene Chloride          | 200    | U         | 200  | 66  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Styrene                     | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 62  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 15:06 | 200     |
| trans-1,2-Dichloroethene    | 100    | J         | 200  | 60  | ug/L |   |          | 05/02/16 15:06 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 15:06 | 200     |
| Trichloroethene             | 310    |           | 200  | 44  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Vinyl chloride              | 360    |           | 200  | 58  | ug/L |   |          | 05/02/16 15:06 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 100 | ug/L |   |          | 05/02/16 15:06 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 15:06 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 78 - 125 |          | 05/02/16 15:06 | 200     |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 61 - 120 |          | 05/02/16 15:06 | 200     |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 05/02/16 15:06 | 200     |
| Dibromofluoromethane (Surr)  | 97        |           | 79 - 120 |          | 05/02/16 15:06 | 200     |

Client Sample ID: GW-041916-SM-005

Date Collected: 04/19/16 10:53

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-5

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,1,1,2-Tetrachloroethane | 170    | U         | 170  | 37  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,1,2-Trichloroethane     | 170    | U         | 170  | 40  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,1-Dichloroethane        | 170    | U         | 170  | 50  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,1-Dichloroethene        | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,2-Dichloroethane        | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 1,2-Dichloropropane       | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 2-Hexanone                | 1700   | U         | 1700 | 80  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Acetone                   | 1700   | U         | 1700 | 160 | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Benzene                   | 170    | U         | 170  | 58  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Bromoform                 | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Bromomethane              | 170    | U *       | 170  | 73  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Carbon disulfide          | 170    | U         | 170  | 63  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Carbon tetrachloride      | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Chlorobenzene             | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Ethyl Chloride            | 170    | U         | 170  | 53  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Chloroform                | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Chloromethane             | 170    | U         | 170  | 73  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| cis-1,2-Dichloroethene    | 4100   |           | 170  | 43  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| cis-1,3-Dichloropropene   | 170    | U         | 170  | 77  | ug/L |   |          | 05/02/16 15:29 | 166.67  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-005

Date Collected: 04/19/16 10:53

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 170    | U         | 170  | 48  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Ethylbenzene                | 170    | U         | 170  | 42  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 2-Butanone (MEK)            | 1700   | U         | 1700 | 88  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| 4-Methyl-2-pentanone (MIBK) | 1700   | U         | 1700 | 170 | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Methylene Chloride          | 170    | U         | 170  | 55  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Styrene                     | 170    | U         | 170  | 75  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Tetrachloroethene           | 170    | U         | 170  | 52  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Toluene                     | 170    | U         | 170  | 38  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| trans-1,2-Dichloroethene    | 190    |           | 170  | 50  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| trans-1,3-Dichloropropene   | 170    | U         | 170  | 93  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Trichloroethene             | 170    | U         | 170  | 37  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Vinyl chloride              | 92     | J         | 170  | 48  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Xylenes, Total              | 330    | U         | 330  | 87  | ug/L |   |          | 05/02/16 15:29 | 166.67  |
| Chlorodibromomethane        | 170    | U         | 170  | 72  | ug/L |   |          | 05/02/16 15:29 | 166.67  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |          | 05/02/16 15:29 | 166.67  |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 61 - 120 |          | 05/02/16 15:29 | 166.67  |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 05/02/16 15:29 | 166.67  |
| Dibromofluoromethane (Surr)  | 96        |           | 79 - 120 |          | 05/02/16 15:29 | 166.67  |

Client Sample ID: GW-041916-SM-006

Date Collected: 04/19/16 11:27

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 200    | U         | 200  | 88  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,1,2,2-Tetrachloroethane   | 200    | U         | 200  | 44  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,1,2-Trichloroethane       | 200    | U         | 200  | 48  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,1-Dichloroethane          | 200    | U         | 200  | 60  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,1-Dichloroethene          | 200    | U         | 200  | 90  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,2-Dichloroethane          | 200    | U         | 200  | 46  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 1,2-Dichloropropane         | 200    | U         | 200  | 50  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 2-Hexanone                  | 2000   | U         | 2000 | 96  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Acetone                     | 2000   | U         | 2000 | 190 | ug/L |   |          | 04/26/16 18:49 | 200     |
| Benzene                     | 200    | U         | 200  | 70  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Bromoform                   | 200    | U         | 200  | 110 | ug/L |   |          | 04/26/16 18:49 | 200     |
| Bromomethane                | 200    | U         | 200  | 88  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 76  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 86  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 50  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Ethyl Chloride              | 200    | U         | 200  | 64  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Chloroform                  | 200    | U         | 200  | 50  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Chloromethane               | 200    | U         | 200  | 88  | ug/L |   |          | 04/26/16 18:49 | 200     |
| cis-1,2-Dichloroethene      | 6400   |           | 200  | 52  | ug/L |   |          | 04/26/16 18:49 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 92  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 58  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 50  | ug/L |   |          | 04/26/16 18:49 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 110 | ug/L |   |          | 04/26/16 18:49 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 200 | ug/L |   |          | 04/26/16 18:49 | 200     |
| Methylene Chloride          | 200    | U         | 200  | 66  | ug/L |   |          | 04/26/16 18:49 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-006

Date Collected: 04/19/16 11:27

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-6

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Styrene                      | 200       | U         | 200      | 90  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Tetrachloroethene            | 200       | U         | 200      | 62  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Toluene                      | 200       | U         | 200      | 46  | ug/L |   |          | 04/26/16 18:49 | 200     |
| trans-1,2-Dichloroethene     | 100       | J         | 200      | 60  | ug/L |   |          | 04/26/16 18:49 | 200     |
| trans-1,3-Dichloropropene    | 200       | U         | 200      | 110 | ug/L |   |          | 04/26/16 18:49 | 200     |
| Trichloroethene              | 200       | U         | 200      | 44  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Vinyl chloride               | 450       |           | 200      | 58  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Xylenes, Total               | 400       | U         | 400      | 100 | ug/L |   |          | 04/26/16 18:49 | 200     |
| Chlorodibromomethane         | 200       | U         | 200      | 86  | ug/L |   |          | 04/26/16 18:49 | 200     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 78 - 125 |     |      |   |          | 04/26/16 18:49 | 200     |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 61 - 120 |     |      |   |          | 04/26/16 18:49 | 200     |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |     |      |   |          | 04/26/16 18:49 | 200     |
| Dibromofluoromethane (Surr)  | 98        |           | 79 - 120 |     |      |   |          | 04/26/16 18:49 | 200     |

Client Sample ID: GW-041916-SM-007

Date Collected: 04/19/16 12:13

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-7

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,1,2,2-Tetrachloroethane   | 33     | U         | 33  | 7.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,1,2-Trichloroethane       | 33     | U         | 33  | 8.0 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,1-Dichloroethane          | 33     | U         | 33  | 10  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,1-Dichloroethene          | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,2-Dichloroethane          | 33     | U         | 33  | 7.7 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 1,2-Dichloropropane         | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 2-Hexanone                  | 330    | U         | 330 | 16  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Acetone                     | 330    | U         | 330 | 31  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Benzene                     | 33     | U         | 33  | 12  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Bromoform                   | 33     | U         | 33  | 19  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Bromomethane                | 33     | U *       | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Carbon disulfide            | 33     | U         | 33  | 13  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Carbon tetrachloride        | 33     | U         | 33  | 14  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Chlorobenzene               | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Ethyl Chloride              | 33     | U         | 33  | 11  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Chloroform                  | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Chloromethane               | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| cis-1,2-Dichloroethene      | 770    |           | 33  | 8.7 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| cis-1,3-Dichloropropene     | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Dichlorobromomethane        | 33     | U         | 33  | 9.7 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Ethylbenzene                | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 2-Butanone (MEK)            | 330    | U         | 330 | 18  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| 4-Methyl-2-pentanone (MIBK) | 330    | U         | 330 | 33  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Methylene Chloride          | 33     | U         | 33  | 11  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Styrene                     | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Tetrachloroethene           | 33     | U         | 33  | 10  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Toluene                     | 33     | U         | 33  | 7.7 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| trans-1,2-Dichloroethene    | 13     | J         | 33  | 10  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| trans-1,3-Dichloropropene   | 33     | U         | 33  | 19  | ug/L |   |          | 05/02/16 15:51 | 33.33   |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-041916-SM-007

Date Collected: 04/19/16 12:13

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-7

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Trichloroethene              | 33        | U         | 33       | 7.3 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Vinyl chloride               | 150       |           | 33       | 9.7 | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Xylenes, Total               | 67        | U         | 67       | 17  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Chlorodibromomethane         | 33        | U         | 33       | 14  | ug/L |   |          | 05/02/16 15:51 | 33.33   |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |     |      |   |          | 05/02/16 15:51 | 33.33   |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 61 - 120 |     |      |   |          | 05/02/16 15:51 | 33.33   |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |     |      |   |          | 05/02/16 15:51 | 33.33   |
| Dibromofluoromethane (Surr)  | 94        |           | 79 - 120 |     |      |   |          | 05/02/16 15:51 | 33.33   |

Client Sample ID: GW-042016-SM-008

Date Collected: 04/20/16 08:02

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-8

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,1,2,2-Tetrachloroethane   | 200    | U         | 200  | 44  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,1,2-Trichloroethane       | 200    | U         | 200  | 48  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,1-Dichloroethane          | 200    | U         | 200  | 60  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,1-Dichloroethene          | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,2-Dichloroethane          | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 1,2-Dichloropropane         | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 2-Hexanone                  | 2000   | U         | 2000 | 96  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Acetone                     | 2000   | U         | 2000 | 190 | ug/L |   |          | 05/02/16 16:11 | 200     |
| Benzene                     | 200    | U         | 200  | 70  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Bromoform                   | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 16:11 | 200     |
| Bromomethane                | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 76  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Ethyl Chloride              | 200    | U         | 200  | 64  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Chloroform                  | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Chloromethane               | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:11 | 200     |
| cis-1,2-Dichloroethene      | 4900   |           | 200  | 52  | ug/L |   |          | 05/02/16 16:11 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 92  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 58  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:11 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 110 | ug/L |   |          | 05/02/16 16:11 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 200 | ug/L |   |          | 05/02/16 16:11 | 200     |
| Methylene Chloride          | 120    | J B       | 200  | 66  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Styrene                     | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 62  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 16:11 | 200     |
| trans-1,2-Dichloroethene    | 200    | U         | 200  | 60  | ug/L |   |          | 05/02/16 16:11 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 16:11 | 200     |
| Trichloroethene             | 170    | J         | 200  | 44  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Vinyl chloride              | 2100   |           | 200  | 58  | ug/L |   |          | 05/02/16 16:11 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 100 | ug/L |   |          | 05/02/16 16:11 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 16:11 | 200     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 78 - 125 |          | 05/02/16 16:11 | 200     |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 61 - 120 |          | 05/02/16 16:11 | 200     |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |          | 05/02/16 16:11 | 200     |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |          | 05/02/16 16:11 | 200     |

Client Sample ID: GW-042016-SM-009

Date Collected: 04/20/16 08:05

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-9

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,1,1,2-Tetrachloroethane   | 200    | U         | 200  | 44  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,1,2-Trichloroethane       | 200    | U         | 200  | 48  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,1-Dichloroethane          | 200    | U         | 200  | 60  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,1-Dichloroethene          | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,2-Dichloroethane          | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 1,2-Dichloropropane         | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 2-Hexanone                  | 2000   | U         | 2000 | 96  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Acetone                     | 2000   | U         | 2000 | 190 | ug/L |   |          | 05/02/16 16:34 | 200     |
| Benzene                     | 200    | U         | 200  | 70  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Bromoform                   | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 16:34 | 200     |
| Bromomethane                | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 76  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Ethyl Chloride              | 200    | U         | 200  | 64  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Chloroform                  | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Chloromethane               | 200    | U         | 200  | 88  | ug/L |   |          | 05/02/16 16:34 | 200     |
| cis-1,2-Dichloroethene      | 4900   |           | 200  | 52  | ug/L |   |          | 05/02/16 16:34 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 92  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 58  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 50  | ug/L |   |          | 05/02/16 16:34 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 110 | ug/L |   |          | 05/02/16 16:34 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 200 | ug/L |   |          | 05/02/16 16:34 | 200     |
| Methylene Chloride          | 130    | J B       | 200  | 66  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Styrene                     | 200    | U         | 200  | 90  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 62  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 05/02/16 16:34 | 200     |
| trans-1,2-Dichloroethene    | 200    | U         | 200  | 60  | ug/L |   |          | 05/02/16 16:34 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 110 | ug/L |   |          | 05/02/16 16:34 | 200     |
| Trichloroethene             | 160    | J         | 200  | 44  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Vinyl chloride              | 2000   |           | 200  | 58  | ug/L |   |          | 05/02/16 16:34 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 100 | ug/L |   |          | 05/02/16 16:34 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 86  | ug/L |   |          | 05/02/16 16:34 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 78 - 125 |          | 05/02/16 16:34 | 200     |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 61 - 120 |          | 05/02/16 16:34 | 200     |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 05/02/16 16:34 | 200     |
| Dibromofluoromethane (Surr)  | 87        |           | 79 - 120 |          | 05/02/16 16:34 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: RB-042016-SM-001

Date Collected: 04/20/16 08:15

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-10

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Acetone                     | 10     | U         | 10  | 0.94 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Ethyl Chloride              | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 16:57 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/02/16 16:57 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/02/16 16:57 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 16:57 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 16:57 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 05/02/16 16:57 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 16:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 78 - 125 |          | 05/02/16 16:57 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 61 - 120 |          | 05/02/16 16:57 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/02/16 16:57 | 1       |
| Dibromofluoromethane (Surr)  | 89        |           | 79 - 120 |          | 05/02/16 16:57 | 1       |

Client Sample ID: GW-042016-SM-010

Date Collected: 04/20/16 08:47

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-11

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 500    | U         | 500 | 220 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 1,1,2,2-Tetrachloroethane | 500    | U         | 500 | 110 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 1,1,2-Trichloroethane     | 500    | U         | 500 | 120 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 1,1-Dichloroethane        | 310    | J         | 500 | 150 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 1,1-Dichloroethene        | 500    | U         | 500 | 230 | ug/L |   |          | 05/03/16 19:18 | 500     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-010

Date Collected: 04/20/16 08:47

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-11

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 500       | U         | 500      | 120 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 1,2-Dichloropropane          | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 2-Hexanone                   | 5000      | U         | 5000     | 240 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Acetone                      | 5000      | U         | 5000     | 470 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Benzene                      | 500       | U         | 500      | 180 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Bromoform                    | 500       | U         | 500      | 280 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Bromomethane                 | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Carbon disulfide             | 500       | U         | 500      | 190 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Carbon tetrachloride         | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Chlorobenzene                | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Ethyl Chloride               | 500       | U         | 500      | 160 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Chloroform                   | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Chloromethane                | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 19:18 | 500     |
| cis-1,2-Dichloroethene       | 15000     |           | 500      | 130 | ug/L |   |          | 05/03/16 19:18 | 500     |
| cis-1,3-Dichloropropene      | 500       | U         | 500      | 230 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Dichlorobromomethane         | 500       | U         | 500      | 150 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Ethylbenzene                 | 460       | J         | 500      | 130 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 2-Butanone (MEK)             | 5000      | U         | 5000     | 270 | ug/L |   |          | 05/03/16 19:18 | 500     |
| 4-Methyl-2-pentanone (MIBK)  | 5000      | U         | 5000     | 500 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Methylene Chloride           | 420       | J B       | 500      | 170 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Styrene                      | 500       | U         | 500      | 230 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Tetrachloroethene            | 500       | U         | 500      | 160 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Toluene                      | 1500      |           | 500      | 120 | ug/L |   |          | 05/03/16 19:18 | 500     |
| trans-1,2-Dichloroethene     | 500       | U         | 500      | 150 | ug/L |   |          | 05/03/16 19:18 | 500     |
| trans-1,3-Dichloropropene    | 500       | U         | 500      | 280 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Trichloroethene              | 500       | U         | 500      | 110 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Vinyl chloride               | 1500      |           | 500      | 150 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Xylenes, Total               | 1000      |           | 1000     | 260 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Chlorodibromomethane         | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 19:18 | 500     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 89        |           | 78 - 125 |     |      |   |          | 05/03/16 19:18 | 500     |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 61 - 120 |     |      |   |          | 05/03/16 19:18 | 500     |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |     |      |   |          | 05/03/16 19:18 | 500     |
| Dibromofluoromethane (Surr)  | 101       |           | 79 - 120 |     |      |   |          | 05/03/16 19:18 | 500     |

Client Sample ID: GW-042016-SM-011

Date Collected: 04/20/16 09:23

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-12

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 390    | J         | 500  | 220 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,1,2,2-Tetrachloroethane | 500    | U         | 500  | 110 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,1,2-Trichloroethane     | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,1-Dichloroethane        | 250    | J         | 500  | 150 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,1-Dichloroethene        | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,2-Dichloroethane        | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 1,2-Dichloropropane       | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 2-Hexanone                | 5000   | U         | 5000 | 240 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Acetone                   | 470    | J         | 5000 | 470 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Benzene                   | 500    | U         | 500  | 180 | ug/L |   |          | 05/03/16 19:40 | 500     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-011

Date Collected: 04/20/16 09:23

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-12

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 500    | U         | 500  | 280 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Bromomethane                | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Carbon disulfide            | 500    | U         | 500  | 190 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Carbon tetrachloride        | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Chlorobenzene               | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Ethyl Chloride              | 500    | U         | 500  | 160 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Chloroform                  | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Chloromethane               | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 19:40 | 500     |
| cis-1,2-Dichloroethene      | 7400   |           | 500  | 130 | ug/L |   |          | 05/03/16 19:40 | 500     |
| cis-1,3-Dichloropropene     | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Dichlorobromomethane        | 500    | U         | 500  | 150 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Ethylbenzene                | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 2-Butanone (MEK)            | 5000   | U         | 5000 | 270 | ug/L |   |          | 05/03/16 19:40 | 500     |
| 4-Methyl-2-pentanone (MIBK) | 5000   | U         | 5000 | 500 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Methylene Chloride          | 410    | J B       | 500  | 170 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Styrene                     | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Tetrachloroethene           | 500    | U         | 500  | 160 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Toluene                     | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 19:40 | 500     |
| trans-1,2-Dichloroethene    | 500    | U         | 500  | 150 | ug/L |   |          | 05/03/16 19:40 | 500     |
| trans-1,3-Dichloropropene   | 500    | U         | 500  | 280 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Trichloroethene             | 12000  |           | 500  | 110 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Vinyl chloride              | 500    | U         | 500  | 150 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Xylenes, Total              | 1000   | U         | 1000 | 260 | ug/L |   |          | 05/03/16 19:40 | 500     |
| Chlorodibromomethane        | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 19:40 | 500     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 78 - 125 |          | 05/03/16 19:40 | 500     |
| 4-Bromofluorobenzene (Surr)  | 78        |           | 61 - 120 |          | 05/03/16 19:40 | 500     |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/03/16 19:40 | 500     |
| Dibromofluoromethane (Surr)  | 101       |           | 79 - 120 |          | 05/03/16 19:40 | 500     |

Client Sample ID: GW-042016-SM-012

Date Collected: 04/20/16 10:07

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-13

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,1,2,2-Tetrachloroethane | 5.0    | U         | 5.0 | 1.1 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,1,2-Trichloroethane     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,1-Dichloroethane        | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,1-Dichloroethene        | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,2-Dichloroethane        | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 1,2-Dichloropropane       | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 2-Hexanone                | 50     | U         | 50  | 2.4 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Acetone                   | 50     | U         | 50  | 4.7 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Benzene                   | 5.0    | U         | 5.0 | 1.8 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Bromoform                 | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Bromomethane              | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Carbon disulfide          | 5.0    | U         | 5.0 | 1.9 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Carbon tetrachloride      | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Chlorobenzene             | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 18:05 | 5       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-012

Date Collected: 04/20/16 10:07

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-13

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Ethyl Chloride              | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Chloroform                  | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Chloromethane               | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| cis-1,2-Dichloroethene      | 11     |           | 5.0 | 1.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| cis-1,3-Dichloropropene     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Dichlorobromomethane        | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Ethylbenzene                | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 2-Butanone (MEK)            | 50     | U         | 50  | 2.7 | ug/L |   |          | 05/02/16 18:05 | 5       |
| 4-Methyl-2-pentanone (MIBK) | 50     | U         | 50  | 5.0 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Methylene Chloride          | 3.0    | J B       | 5.0 | 1.7 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Styrene                     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Tetrachloroethene           | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Toluene                     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 18:05 | 5       |
| trans-1,2-Dichloroethene    | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 18:05 | 5       |
| trans-1,3-Dichloropropene   | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Trichloroethene             | 150    |           | 5.0 | 1.1 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Vinyl chloride              | 3.5    | J         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Xylenes, Total              | 10     | U         | 10  | 2.6 | ug/L |   |          | 05/02/16 18:05 | 5       |
| Chlorodibromomethane        | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 18:05 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 79        |           | 78 - 125 |          | 05/02/16 18:05 | 5       |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 61 - 120 |          | 05/02/16 18:05 | 5       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 05/02/16 18:05 | 5       |
| Dibromofluoromethane (Surr)  | 86        |           | 79 - 120 |          | 05/02/16 18:05 | 5       |

Client Sample ID: GW-042016-SM-013

Date Collected: 04/20/16 11:07

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-14

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 50     | U         | 50  | 22  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,1,1,2,2-Tetrachloroethane | 50     | U         | 50  | 11  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,1,2-Trichloroethane       | 50     | U         | 50  | 12  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,1-Dichloroethane          | 50     |           | 50  | 15  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,1-Dichloroethene          | 50     | U         | 50  | 23  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,2-Dichloroethane          | 50     | U         | 50  | 12  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 1,2-Dichloropropane         | 50     | U         | 50  | 13  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 2-Hexanone                  | 500    | U         | 500 | 24  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Acetone                     | 500    | U         | 500 | 47  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Benzene                     | 50     | U         | 50  | 18  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Bromoform                   | 50     | U         | 50  | 28  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Bromomethane                | 50     | U         | 50  | 22  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Carbon disulfide            | 50     | U         | 50  | 19  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Carbon tetrachloride        | 50     | U         | 50  | 22  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Chlorobenzene               | 50     | U         | 50  | 13  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Ethyl Chloride              | 50     | U         | 50  | 16  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Chloroform                  | 50     | U         | 50  | 13  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Chloromethane               | 50     | U         | 50  | 22  | ug/L |   |          | 05/02/16 18:28 | 50      |
| cis-1,2-Dichloroethene      | 1100   |           | 50  | 13  | ug/L |   |          | 05/02/16 18:28 | 50      |
| cis-1,3-Dichloropropene     | 50     | U         | 50  | 23  | ug/L |   |          | 05/02/16 18:28 | 50      |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-013

Date Collected: 04/20/16 11:07

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-14

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 50     | U         | 50  | 15  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Ethylbenzene                | 50     | U         | 50  | 13  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 2-Butanone (MEK)            | 500    | U         | 500 | 27  | ug/L |   |          | 05/02/16 18:28 | 50      |
| 4-Methyl-2-pentanone (MIBK) | 500    | U         | 500 | 50  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Methylene Chloride          | 31     | J B       | 50  | 17  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Styrene                     | 50     | U         | 50  | 23  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Tetrachloroethene           | 50     | U         | 50  | 16  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Toluene                     | 50     | U         | 50  | 12  | ug/L |   |          | 05/02/16 18:28 | 50      |
| trans-1,2-Dichloroethene    | 52     |           | 50  | 15  | ug/L |   |          | 05/02/16 18:28 | 50      |
| trans-1,3-Dichloropropene   | 50     | U         | 50  | 28  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Trichloroethene             | 50     | U         | 50  | 11  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Vinyl chloride              | 140    |           | 50  | 15  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Xylenes, Total              | 100    | U         | 100 | 26  | ug/L |   |          | 05/02/16 18:28 | 50      |
| Chlorodibromomethane        | 50     | U         | 50  | 22  | ug/L |   |          | 05/02/16 18:28 | 50      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 78 - 125 |          | 05/02/16 18:28 | 50      |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 61 - 120 |          | 05/02/16 18:28 | 50      |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/02/16 18:28 | 50      |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |          | 05/02/16 18:28 | 50      |

Client Sample ID: GW-042016-SM-014

Date Collected: 04/20/16 12:37

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-15

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Acetone                     | 10     | U         | 10  | 0.94 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Ethyl Chloride              | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 18:51 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/02/16 18:51 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/02/16 18:51 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/02/16 18:51 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-014

Date Collected: 04/20/16 12:37

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-15

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 05/02/16 18:51 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 05/02/16 18:51 | 1       |
| trans-1,3-Dichloropropene    | 1.0       | U         | 1.0      | 0.56 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.22 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.52 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 05/02/16 18:51 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 83        |           | 78 - 125 |      |      |   |          | 05/02/16 18:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 61 - 120 |      |      |   |          | 05/02/16 18:51 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 80 - 120 |      |      |   |          | 05/02/16 18:51 | 1       |
| Dibromofluoromethane (Surr)  | 87        |           | 79 - 120 |      |      |   |          | 05/02/16 18:51 | 1       |

Client Sample ID: GW-042016-SM-015

Date Collected: 04/20/16 12:40

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-16

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Acetone                     | 10     | U         | 10  | 0.94 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Ethyl Chloride              | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:13 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/02/16 19:13 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/02/16 19:13 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 19:13 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 19:13 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 19:13 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042016-SM-015

Date Collected: 04/20/16 12:40

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-16

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Trichloroethene              | 1.0       | U         | 1.0      | 0.22 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.52 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 05/02/16 19:13 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 78 - 125 |      |      |   |          | 05/02/16 19:13 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 61 - 120 |      |      |   |          | 05/02/16 19:13 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 80 - 120 |      |      |   |          | 05/02/16 19:13 | 1       |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |      |      |   |          | 05/02/16 19:13 | 1       |

Client Sample ID: RB-042016-SM-002

Date Collected: 04/20/16 12:50

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-17

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Acetone                     | 2.0    | J         | 10  | 0.94 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Bromomethane                | 1.0    | U *       | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Ethyl Chloride              | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:34 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/02/16 19:34 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/02/16 19:34 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Toluene                     | 0.38   | J         | 1.0 | 0.23 | ug/L |   |          | 05/02/16 19:34 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 19:34 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 05/02/16 19:34 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/02/16 19:34 | 1       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |          | 05/02/16 19:34 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 61 - 120 |          | 05/02/16 19:34 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 05/02/16 19:34 | 1       |
| Dibromofluoromethane (Surr)  | 94        |           | 79 - 120 |          | 05/02/16 19:34 | 1       |

Client Sample ID: GW-042116-SM-016

Date Collected: 04/21/16 08:13

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-18

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 5.0    | U F2      | 5.0 | 2.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,1,2,2-Tetrachloroethane   | 5.0    | U         | 5.0 | 1.1 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,1,2-Trichloroethane       | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,1-Dichloroethane          | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,1-Dichloroethene          | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,2-Dichloroethane          | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 1,2-Dichloropropane         | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 2-Hexanone                  | 50     | U         | 50  | 2.4 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Acetone                     | 50     | U         | 50  | 4.7 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Benzene                     | 5.0    | U         | 5.0 | 1.8 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Bromoform                   | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Bromomethane                | 5.0    | U *       | 5.0 | 2.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Carbon disulfide            | 5.0    | U         | 5.0 | 1.9 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Carbon tetrachloride        | 5.0    | U F2      | 5.0 | 2.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Chlorobenzene               | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Ethyl Chloride              | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Chloroform                  | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Chloromethane               | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| cis-1,2-Dichloroethene      | 130    |           | 5.0 | 1.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| cis-1,3-Dichloropropene     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Dichlorobromomethane        | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Ethylbenzene                | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 2-Butanone (MEK)            | 50     | U         | 50  | 2.7 | ug/L |   |          | 05/02/16 19:56 | 5       |
| 4-Methyl-2-pentanone (MIBK) | 50     | U         | 50  | 5.0 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 1.7 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Styrene                     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Tetrachloroethene           | 5.0    | U F2      | 5.0 | 1.6 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Toluene                     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/02/16 19:56 | 5       |
| trans-1,2-Dichloroethene    | 1.8    | J         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 19:56 | 5       |
| trans-1,3-Dichloropropene   | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Trichloroethene             | 5.0    | U         | 5.0 | 1.1 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Vinyl chloride              | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Xylenes, Total              | 10     | U         | 10  | 2.6 | ug/L |   |          | 05/02/16 19:56 | 5       |
| Chlorodibromomethane        | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/02/16 19:56 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 78 - 125 |          | 05/02/16 19:56 | 5       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 61 - 120 |          | 05/02/16 19:56 | 5       |
| Toluene-d8 (Surr)            | 102       |           | 80 - 120 |          | 05/02/16 19:56 | 5       |
| Dibromofluoromethane (Surr)  | 94        |           | 79 - 120 |          | 05/02/16 19:56 | 5       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: GW-042116-SM-018

Date Collected: 04/21/16 09:47

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-20

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,1,2,2-Tetrachloroethane   | 33     | U         | 33  | 7.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,1,2-Trichloroethane       | 33     | U         | 33  | 8.0 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,1-Dichloroethane          | 33     | U         | 33  | 10  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,1-Dichloroethene          | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,2-Dichloroethane          | 33     | U         | 33  | 7.7 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 1,2-Dichloropropane         | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 2-Hexanone                  | 330    | U         | 330 | 16  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Acetone                     | 330    | U         | 330 | 31  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Benzene                     | 33     | U         | 33  | 12  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Bromoform                   | 33     | U         | 33  | 19  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Bromomethane                | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Carbon disulfide            | 33     | U         | 33  | 13  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Carbon tetrachloride        | 33     | U         | 33  | 14  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Chlorobenzene               | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Ethyl Chloride              | 33     | U         | 33  | 11  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Chloroform                  | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Chloromethane               | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| cis-1,2-Dichloroethene      | 830    |           | 33  | 8.7 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| cis-1,3-Dichloropropene     | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Dichlorobromomethane        | 33     | U         | 33  | 9.7 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Ethylbenzene                | 33     | U         | 33  | 8.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 2-Butanone (MEK)            | 330    | U         | 330 | 18  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| 4-Methyl-2-pentanone (MIBK) | 330    | U         | 330 | 33  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Methylene Chloride          | 27     | J B       | 33  | 11  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Styrene                     | 33     | U         | 33  | 15  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Tetrachloroethene           | 33     | U         | 33  | 10  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Toluene                     | 33     | U         | 33  | 7.7 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| trans-1,2-Dichloroethene    | 20     | J         | 33  | 10  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| trans-1,3-Dichloropropene   | 33     | U         | 33  | 19  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Trichloroethene             | 33     | U         | 33  | 7.3 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Vinyl chloride              | 11     | J         | 33  | 9.7 | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Xylenes, Total              | 67     | U         | 67  | 17  | ug/L |   |          | 05/02/16 19:36 | 33.33   |
| Chlorodibromomethane        | 33     | U         | 33  | 14  | ug/L |   |          | 05/02/16 19:36 | 33.33   |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 78 - 125 |          | 05/02/16 19:36 | 33.33   |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 61 - 120 |          | 05/02/16 19:36 | 33.33   |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |          | 05/02/16 19:36 | 33.33   |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |          | 05/02/16 19:36 | 33.33   |

Client Sample ID: TB-042116-SM-001

Date Collected: 04/21/16 13:00

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-24

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/02/16 19:59 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Client Sample ID: TB-042116-SM-001

Date Collected: 04/21/16 13:00

Date Received: 04/22/16 07:55

Lab Sample ID: 240-63789-24

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 1,2-Dichloropropane          | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 2-Hexanone                   | 10        | U         | 10       | 0.48 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Acetone                      | 10        | U         | 10       | 0.94 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Benzene                      | 1.0       | U         | 1.0      | 0.35 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Bromoform                    | 1.0       | U         | 1.0      | 0.56 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Bromomethane                 | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Carbon disulfide             | 1.0       | U         | 1.0      | 0.38 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Carbon tetrachloride         | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Chlorobenzene                | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Ethyl Chloride               | 1.0       | U         | 1.0      | 0.32 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Chloroform                   | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Chloromethane                | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 05/02/16 19:59 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0      | 0.26 | ug/L |   |          | 05/02/16 19:59 | 1       |
| cis-1,3-Dichloropropene      | 1.0       | U         | 1.0      | 0.46 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Dichlorobromomethane         | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Ethylbenzene                 | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 2-Butanone (MEK)             | 10        | U         | 10       | 0.53 | ug/L |   |          | 05/02/16 19:59 | 1       |
| 4-Methyl-2-pentanone (MIBK)  | 10        | U         | 10       | 0.99 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Methylene Chloride           | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Styrene                      | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 05/02/16 19:59 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 05/02/16 19:59 | 1       |
| trans-1,3-Dichloropropene    | 1.0       | U         | 1.0      | 0.56 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.22 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.52 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 05/02/16 19:59 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 78 - 125 |      |      |   |          | 05/02/16 19:59 | 1       |
| 4-Bromofluorobenzene (Surr)  | 82        |           | 61 - 120 |      |      |   |          | 05/02/16 19:59 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |      |      |   |          | 05/02/16 19:59 | 1       |
| Dibromofluoromethane (Surr)  | 84        |           | 79 - 120 |      |      |   |          | 05/02/16 19:59 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|--------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                  |                    | 12DCE<br>(78-125)                              | BFB<br>(61-120) | TOL<br>(80-120) | DBFM<br>(79-120) |
| 240-63789-1      | GW-041916-SM-001   | 100                                            | 95              | 101             | 95               |
| 240-63789-2      | GW-041916-SM-002   | 100                                            | 94              | 96              | 96               |
| 240-63789-3      | GW-041916-SM-003   | 98                                             | 92              | 101             | 95               |
| 240-63789-4      | GW-041916-SM-004   | 98                                             | 95              | 97              | 97               |
| 240-63789-5      | GW-041916-SM-005   | 100                                            | 93              | 98              | 96               |
| 240-63789-6      | GW-041916-SM-006   | 104                                            | 96              | 97              | 98               |
| 240-63789-7      | GW-041916-SM-007   | 100                                            | 91              | 102             | 94               |
| 240-63789-8      | GW-042016-SM-008   | 80                                             | 86              | 91              | 85               |
| 240-63789-9      | GW-042016-SM-009   | 81                                             | 84              | 92              | 87               |
| 240-63789-10     | RB-042016-SM-001   | 85                                             | 86              | 93              | 89               |
| 240-63789-11     | GW-042016-SM-010   | 89                                             | 85              | 91              | 101              |
| 240-63789-11 MS  | GW-042016-SM-010   | 82                                             | 94              | 98              | 96               |
| 240-63789-11 MSD | GW-042016-SM-010   | 81                                             | 95              | 99              | 94               |
| 240-63789-12     | GW-042016-SM-011   | 90                                             | 78              | 93              | 101              |
| 240-63789-13     | GW-042016-SM-012   | 79                                             | 85              | 92              | 86               |
| 240-63789-14     | GW-042016-SM-013   | 81                                             | 86              | 93              | 85               |
| 240-63789-15     | GW-042016-SM-014   | 83                                             | 85              | 90              | 87               |
| 240-63789-16     | GW-042016-SM-015   | 82                                             | 84              | 90              | 85               |
| 240-63789-17     | RB-042016-SM-002   | 100                                            | 91              | 101             | 94               |
| 240-63789-18     | GW-042116-SM-016   | 100                                            | 93              | 102             | 94               |
| 240-63789-18 MS  | GW-042116-SM-016   | 100                                            | 96              | 103             | 97               |
| 240-63789-18 MSD | GW-042116-SM-016   | 99                                             | 100             | 100             | 97               |
| 240-63789-20     | GW-042116-SM-018   | 80                                             | 84              | 91              | 85               |
| 240-63789-24     | TB-042116-SM-001   | 80                                             | 82              | 91              | 84               |
| LCS 240-227561/4 | Lab Control Sample | 101                                            | 96              | 98              | 103              |
| LCS 240-228368/4 | Lab Control Sample | 98                                             | 96              | 102             | 101              |
| LCS 240-228375/4 | Lab Control Sample | 80                                             | 91              | 94              | 88               |
| LCS 240-228616/5 | Lab Control Sample | 83                                             | 95              | 98              | 95               |
| MB 240-227561/6  | Method Blank       | 104                                            | 95              | 97              | 98               |
| MB 240-228368/6  | Method Blank       | 99                                             | 96              | 96              | 96               |
| MB 240-228375/6  | Method Blank       | 82                                             | 86              | 92              | 88               |
| MB 240-228616/7  | Method Blank       | 90                                             | 81              | 91              | 98               |

## Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: MB 240-227561/6

Matrix: Water

Analysis Batch: 227561

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Ethyl Chloride              | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 04/26/16 11:42 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 04/26/16 11:42 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 04/26/16 11:42 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 04/26/16 11:42 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 04/26/16 11:42 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 04/26/16 11:42 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 04/26/16 11:42 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104          |              | 78 - 125 |          | 04/26/16 11:42 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95           |              | 61 - 120 |          | 04/26/16 11:42 | 1       |
| Toluene-d8 (Surr)            | 97           |              | 80 - 120 |          | 04/26/16 11:42 | 1       |
| Dibromofluoromethane (Surr)  | 98           |              | 79 - 120 |          | 04/26/16 11:42 | 1       |

Lab Sample ID: LCS 240-227561/4

Matrix: Water

Analysis Batch: 227561

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-Trichloroethane     | 10.0        | 9.55       |               | ug/L |   | 95   | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 9.04       |               | ug/L |   | 90   | 71 - 123     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: LCS 240-227561/4

Matrix: Water

Analysis Batch: 227561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 9.37       |               | ug/L |   | 94   | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 9.46       |               | ug/L |   | 95   | 79 - 125     |
| 1,1-Dichloroethene          | 10.0        | 10.8       |               | ug/L |   | 108  | 76 - 124     |
| 1,2-Dichloroethane          | 10.0        | 10.3       |               | ug/L |   | 103  | 80 - 120     |
| 1,2-Dichloropropane         | 10.0        | 9.60       |               | ug/L |   | 96   | 78 - 124     |
| 2-Hexanone                  | 20.0        | 16.6       |               | ug/L |   | 83   | 55 - 141     |
| Acetone                     | 20.0        | 15.8       |               | ug/L |   | 79   | 34 - 148     |
| Benzene                     | 10.0        | 9.74       |               | ug/L |   | 97   | 80 - 120     |
| Bromoform                   | 10.0        | 8.44       |               | ug/L |   | 84   | 56 - 122     |
| Bromomethane                | 10.0        | 6.57       |               | ug/L |   | 66   | 38 - 132     |
| Carbon disulfide            | 10.0        | 8.83       |               | ug/L |   | 88   | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 11.0       |               | ug/L |   | 110  | 77 - 131     |
| Chlorobenzene               | 10.0        | 9.46       |               | ug/L |   | 95   | 80 - 120     |
| Ethyl Chloride              | 10.0        | 7.31       |               | ug/L |   | 73   | 36 - 126     |
| Chloroform                  | 10.0        | 9.92       |               | ug/L |   | 99   | 80 - 120     |
| Chloromethane               | 10.0        | 8.19       |               | ug/L |   | 82   | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 9.90       |               | ug/L |   | 99   | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.90       |               | ug/L |   | 89   | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 9.20       |               | ug/L |   | 92   | 80 - 120     |
| Ethylbenzene                | 10.0        | 9.64       |               | ug/L |   | 96   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 9.47       |               | ug/L |   | 95   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 17.1       |               | ug/L |   | 85   | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 18.5       |               | ug/L |   | 92   | 64 - 135     |
| Methylene Chloride          | 10.0        | 9.67       |               | ug/L |   | 97   | 77 - 129     |
| o-Xylene                    | 10.0        | 9.21       |               | ug/L |   | 92   | 80 - 120     |
| Styrene                     | 10.0        | 9.37       |               | ug/L |   | 94   | 76 - 122     |
| Tetrachloroethene           | 10.0        | 10.2       |               | ug/L |   | 102  | 78 - 121     |
| Toluene                     | 10.0        | 9.42       |               | ug/L |   | 94   | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 10.6       |               | ug/L |   | 106  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 7.94       |               | ug/L |   | 79   | 75 - 131     |
| Trichloroethene             | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 121     |
| Vinyl chloride              | 10.0        | 8.48       |               | ug/L |   | 85   | 52 - 121     |
| Xylenes, Total              | 20.0        | 18.7       |               | ug/L |   | 93   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 8.67       |               | ug/L |   | 87   | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 101           |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 96            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 98            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 103           |               | 79 - 120 |

Lab Sample ID: MB 240-228368/6

Matrix: Water

Analysis Batch: 228368

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/02/16 12:26 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: MB 240-228368/6

Matrix: Water

Analysis Batch: 228368

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Ethyl Chloride              | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 12:26 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 05/02/16 12:26 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 05/02/16 12:26 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/02/16 12:26 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/02/16 12:26 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 05/02/16 12:26 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/02/16 12:26 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99           |              | 78 - 125 |          | 05/02/16 12:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 96           |              | 61 - 120 |          | 05/02/16 12:26 | 1       |
| Toluene-d8 (Surr)            | 96           |              | 80 - 120 |          | 05/02/16 12:26 | 1       |
| Dibromofluoromethane (Surr)  | 96           |              | 79 - 120 |          | 05/02/16 12:26 | 1       |

Lab Sample ID: LCS 240-228368/4

Matrix: Water

Analysis Batch: 228368

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-Trichloroethane     | 10.0        | 11.1       |               | ug/L |   | 111  | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 8.89       |               | ug/L |   | 89   | 71 - 123     |
| 1,1,2-Trichloroethane     | 10.0        | 9.87       |               | ug/L |   | 99   | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 10.1       |               | ug/L |   | 101  | 79 - 125     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: LCS 240-228368/4

Matrix: Water

Analysis Batch: 228368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethene          | 10.0        | 11.1       |               | ug/L |   | 111  | 76 - 124     |
| 1,2-Dichloroethane          | 10.0        | 10.5       |               | ug/L |   | 105  | 80 - 120     |
| 1,2-Dichloropropane         | 10.0        | 10.3       |               | ug/L |   | 103  | 78 - 124     |
| 2-Hexanone                  | 20.0        | 14.8       |               | ug/L |   | 74   | 55 - 141     |
| Acetone                     | 20.0        | 14.2       |               | ug/L |   | 71   | 34 - 148     |
| Benzene                     | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| Bromoform                   | 10.0        | 7.99       |               | ug/L |   | 80   | 56 - 122     |
| Bromomethane                | 10.0        | 14.1       | *             | ug/L |   | 141  | 38 - 132     |
| Carbon disulfide            | 10.0        | 11.0       |               | ug/L |   | 110  | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 11.9       |               | ug/L |   | 119  | 77 - 131     |
| Chlorobenzene               | 10.0        | 10.2       |               | ug/L |   | 102  | 80 - 120     |
| Ethyl Chloride              | 10.0        | 10.5       |               | ug/L |   | 105  | 36 - 126     |
| Chloroform                  | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| Chloromethane               | 10.0        | 9.44       |               | ug/L |   | 94   | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 10.4       |               | ug/L |   | 104  | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 9.42       |               | ug/L |   | 94   | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 9.86       |               | ug/L |   | 99   | 80 - 120     |
| Ethylbenzene                | 10.0        | 10.3       |               | ug/L |   | 103  | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 10.2       |               | ug/L |   | 102  | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 15.0       |               | ug/L |   | 75   | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 16.5       |               | ug/L |   | 82   | 64 - 135     |
| Methylene Chloride          | 10.0        | 10.7       |               | ug/L |   | 107  | 77 - 129     |
| o-Xylene                    | 10.0        | 9.89       |               | ug/L |   | 99   | 80 - 120     |
| Styrene                     | 10.0        | 9.93       |               | ug/L |   | 99   | 76 - 122     |
| Tetrachloroethene           | 10.0        | 10.9       |               | ug/L |   | 109  | 78 - 121     |
| Toluene                     | 10.0        | 10.6       |               | ug/L |   | 106  | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 11.1       |               | ug/L |   | 111  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 8.34       |               | ug/L |   | 83   | 75 - 131     |
| Trichloroethene             | 10.0        | 10.7       |               | ug/L |   | 107  | 80 - 121     |
| Vinyl chloride              | 10.0        | 10.1       |               | ug/L |   | 101  | 52 - 121     |
| Xylenes, Total              | 20.0        | 20.1       |               | ug/L |   | 100  | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 9.08       |               | ug/L |   | 91   | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 96            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 101           |               | 79 - 120 |

Lab Sample ID: 240-63789-18 MS

Matrix: Water

Analysis Batch: 228368

Client Sample ID: GW-042116-SM-016

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 5.0           | U F2             | 50.0        | 40.8      |              | ug/L |   | 82   | 69 - 122     |
| 1,1,2,2-Tetrachloroethane | 5.0           | U                | 50.0        | 42.0      |              | ug/L |   | 84   | 61 - 130     |
| 1,1,2-Trichloroethane     | 5.0           | U                | 50.0        | 47.3      |              | ug/L |   | 95   | 72 - 125     |
| 1,1-Dichloroethane        | 5.0           | U                | 50.0        | 46.7      |              | ug/L |   | 93   | 73 - 124     |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: 240-63789-18 MS

Matrix: Water

Analysis Batch: 228368

Client Sample ID: GW-042116-SM-016

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1-Dichloroethene          | 5.0           | U                | 50.0        | 41.0      |              | ug/L |   | 82   | 67 - 124     |
| 1,2-Dichloroethane          | 5.0           | U                | 50.0        | 51.5      |              | ug/L |   | 103  | 74 - 125     |
| 1,2-Dichloropropane         | 5.0           | U                | 50.0        | 48.0      |              | ug/L |   | 96   | 73 - 122     |
| 2-Hexanone                  | 50            | U                | 100         | 65.1      |              | ug/L |   | 65   | 49 - 142     |
| Acetone                     | 50            | U                | 100         | 67.6      |              | ug/L |   | 68   | 32 - 126     |
| Benzene                     | 5.0           | U                | 50.0        | 47.2      |              | ug/L |   | 94   | 73 - 121     |
| Bromoform                   | 5.0           | U                | 50.0        | 31.4      |              | ug/L |   | 63   | 45 - 121     |
| Bromomethane                | 5.0           | U *              | 50.0        | 66.7      |              | ug/L |   | 133  | 26 - 136     |
| Carbon disulfide            | 5.0           | U                | 50.0        | 39.3      |              | ug/L |   | 79   | 54 - 144     |
| Carbon tetrachloride        | 5.0           | U F2             | 50.0        | 35.2      |              | ug/L |   | 70   | 65 - 129     |
| Chlorobenzene               | 5.0           | U                | 50.0        | 46.4      |              | ug/L |   | 93   | 72 - 120     |
| Ethyl Chloride              | 5.0           | U                | 50.0        | 47.1      |              | ug/L |   | 94   | 27 - 131     |
| Chloroform                  | 5.0           | U                | 50.0        | 48.9      |              | ug/L |   | 98   | 73 - 121     |
| Chloromethane               | 5.0           | U                | 50.0        | 42.5      |              | ug/L |   | 85   | 39 - 134     |
| cis-1,2-Dichloroethene      | 130           |                  | 50.0        | 174       |              | ug/L |   | 94   | 66 - 124     |
| cis-1,3-Dichloropropene     | 5.0           | U                | 50.0        | 38.6      |              | ug/L |   | 77   | 60 - 120     |
| Dichlorobromomethane        | 5.0           | U                | 50.0        | 42.9      |              | ug/L |   | 86   | 72 - 120     |
| Ethylbenzene                | 5.0           | U                | 50.0        | 43.6      |              | ug/L |   | 87   | 68 - 121     |
| m-Xylene & p-Xylene         | 10            | U                | 50.0        | 43.8      |              | ug/L |   | 88   | 66 - 123     |
| 2-Butanone (MEK)            | 50            | U                | 100         | 68.9      |              | ug/L |   | 69   | 49 - 132     |
| 4-Methyl-2-pentanone (MIBK) | 50            | U                | 100         | 72.9      |              | ug/L |   | 73   | 58 - 136     |
| Methylene Chloride          | 5.0           | U                | 50.0        | 49.8      |              | ug/L |   | 100  | 70 - 124     |
| o-Xylene                    | 5.0           | U                | 50.0        | 43.5      |              | ug/L |   | 87   | 68 - 121     |
| Styrene                     | 5.0           | U                | 50.0        | 45.1      |              | ug/L |   | 90   | 64 - 126     |
| Tetrachloroethene           | 5.0           | U F2             | 50.0        | 38.3      |              | ug/L |   | 77   | 59 - 125     |
| Toluene                     | 5.0           | U                | 50.0        | 46.7      |              | ug/L |   | 93   | 72 - 122     |
| trans-1,2-Dichloroethene    | 1.8           | J                | 50.0        | 50.1      |              | ug/L |   | 97   | 72 - 125     |
| trans-1,3-Dichloropropene   | 5.0           | U                | 50.0        | 34.2      |              | ug/L |   | 68   | 58 - 132     |
| Trichloroethene             | 5.0           | U                | 50.0        | 44.8      |              | ug/L |   | 90   | 61 - 129     |
| Vinyl chloride              | 5.0           | U                | 50.0        | 41.1      |              | ug/L |   | 82   | 44 - 122     |
| Xylenes, Total              | 10            | U                | 100         | 87.3      |              | ug/L |   | 87   | 67 - 122     |
| Chlorodibromomethane        | 5.0           | U                | 50.0        | 37.3      |              | ug/L |   | 75   | 62 - 122     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100          |              | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 96           |              | 61 - 120 |
| Toluene-d8 (Surr)            | 103          |              | 80 - 120 |
| Dibromofluoromethane (Surr)  | 97           |              | 79 - 120 |

Lab Sample ID: 240-63789-18 MSD

Matrix: Water

Analysis Batch: 228368

Client Sample ID: GW-042116-SM-016

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-Trichloroethane     | 5.0           | U F2             | 50.0        | 49.4       | F2            | ug/L |   | 99   | 69 - 122     | 19  | 14        |
| 1,1,2,2-Tetrachloroethane | 5.0           | U                | 50.0        | 43.6       |               | ug/L |   | 87   | 61 - 130     | 4   | 18        |
| 1,1,2-Trichloroethane     | 5.0           | U                | 50.0        | 48.3       |               | ug/L |   | 97   | 72 - 125     | 2   | 19        |
| 1,1-Dichloroethane        | 5.0           | U                | 50.0        | 49.9       |               | ug/L |   | 100  | 73 - 124     | 7   | 14        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: 240-63789-18 MSD

Matrix: Water

Analysis Batch: 228368

Client Sample ID: GW-042116-SM-016

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-Dichloroethene          | 5.0           | U                | 50.0        | 52.0       |               | ug/L |   | 104  | 67 - 124     | 24  | 24        |
| 1,2-Dichloroethane          | 5.0           | U                | 50.0        | 52.8       |               | ug/L |   | 106  | 74 - 125     | 3   | 24        |
| 1,2-Dichloropropane         | 5.0           | U                | 50.0        | 50.4       |               | ug/L |   | 101  | 73 - 122     | 5   | 15        |
| 2-Hexanone                  | 50            | U                | 100         | 68.7       |               | ug/L |   | 69   | 49 - 142     | 5   | 27        |
| Acetone                     | 50            | U                | 100         | 70.2       |               | ug/L |   | 70   | 32 - 126     | 4   | 28        |
| Benzene                     | 5.0           | U                | 50.0        | 49.9       |               | ug/L |   | 100  | 73 - 121     | 6   | 13        |
| Bromoform                   | 5.0           | U                | 50.0        | 35.1       |               | ug/L |   | 70   | 45 - 121     | 11  | 19        |
| Bromomethane                | 5.0           | U *              | 50.0        | 61.7       |               | ug/L |   | 123  | 26 - 136     | 8   | 35        |
| Carbon disulfide            | 5.0           | U                | 50.0        | 48.1       |               | ug/L |   | 96   | 54 - 144     | 20  | 34        |
| Carbon tetrachloride        | 5.0           | U F2             | 50.0        | 51.5       | F2            | ug/L |   | 103  | 65 - 129     | 38  | 20        |
| Chlorobenzene               | 5.0           | U                | 50.0        | 48.9       |               | ug/L |   | 98   | 72 - 120     | 5   | 15        |
| Ethyl Chloride              | 5.0           | U                | 50.0        | 50.9       |               | ug/L |   | 102  | 27 - 131     | 8   | 35        |
| Chloroform                  | 5.0           | U                | 50.0        | 51.3       |               | ug/L |   | 103  | 73 - 121     | 5   | 17        |
| Chloromethane               | 5.0           | U                | 50.0        | 47.3       |               | ug/L |   | 95   | 39 - 134     | 11  | 20        |
| cis-1,2-Dichloroethene      | 130           |                  | 50.0        | 174        |               | ug/L |   | 95   | 66 - 124     | 0   | 22        |
| cis-1,3-Dichloropropene     | 5.0           | U                | 50.0        | 40.9       |               | ug/L |   | 82   | 60 - 120     | 6   | 21        |
| Dichlorobromomethane        | 5.0           | U                | 50.0        | 45.5       |               | ug/L |   | 91   | 72 - 120     | 6   | 19        |
| Ethylbenzene                | 5.0           | U                | 50.0        | 49.0       |               | ug/L |   | 98   | 68 - 121     | 12  | 16        |
| m-Xylene & p-Xylene         | 10            | U                | 50.0        | 49.1       |               | ug/L |   | 98   | 66 - 123     | 12  | 15        |
| 2-Butanone (MEK)            | 50            | U                | 100         | 72.7       |               | ug/L |   | 73   | 49 - 132     | 5   | 19        |
| 4-Methyl-2-pentanone (MIBK) | 50            | U                | 100         | 76.2       |               | ug/L |   | 76   | 58 - 136     | 4   | 32        |
| Methylene Chloride          | 5.0           | U                | 50.0        | 52.9       |               | ug/L |   | 106  | 70 - 124     | 6   | 14        |
| o-Xylene                    | 5.0           | U                | 50.0        | 47.7       |               | ug/L |   | 95   | 68 - 121     | 9   | 14        |
| Styrene                     | 5.0           | U                | 50.0        | 48.4       |               | ug/L |   | 97   | 64 - 126     | 7   | 15        |
| Tetrachloroethene           | 5.0           | U F2             | 50.0        | 49.0       | F2            | ug/L |   | 98   | 59 - 125     | 25  | 20        |
| Toluene                     | 5.0           | U                | 50.0        | 49.3       |               | ug/L |   | 99   | 72 - 122     | 5   | 15        |
| trans-1,2-Dichloroethene    | 1.8           | J                | 50.0        | 54.5       |               | ug/L |   | 105  | 72 - 125     | 8   | 25        |
| trans-1,3-Dichloropropene   | 5.0           | U                | 50.0        | 35.4       |               | ug/L |   | 71   | 58 - 132     | 4   | 22        |
| Trichloroethene             | 5.0           | U                | 50.0        | 51.1       |               | ug/L |   | 102  | 61 - 129     | 13  | 14        |
| Vinyl chloride              | 5.0           | U                | 50.0        | 51.3       |               | ug/L |   | 103  | 44 - 122     | 22  | 35        |
| Xylenes, Total              | 10            | U                | 100         | 96.8       |               | ug/L |   | 97   | 67 - 122     | 10  | 14        |
| Chlorodibromomethane        | 5.0           | U                | 50.0        | 39.3       |               | ug/L |   | 79   | 62 - 122     | 5   | 19        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 100           |               | 61 - 120 |
| Toluene-d8 (Surr)            | 100           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 97            |               | 79 - 120 |

Lab Sample ID: MB 240-228375/6

Matrix: Water

Analysis Batch: 228375

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 1,1,2-Trichloroethane     | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 1,1-Dichloroethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/02/16 13:31 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: MB 240-228375/6

Matrix: Water

Analysis Batch: 228375

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Ethyl Chloride              | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/02/16 13:31 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 05/02/16 13:31 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 05/02/16 13:31 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Methylene Chloride          | 0.633     | J            | 1.0 | 0.33 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/02/16 13:31 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/02/16 13:31 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 05/02/16 13:31 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/02/16 13:31 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 82           |              | 78 - 125 |          | 05/02/16 13:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86           |              | 61 - 120 |          | 05/02/16 13:31 | 1       |
| Toluene-d8 (Surr)            | 92           |              | 80 - 120 |          | 05/02/16 13:31 | 1       |
| Dibromofluoromethane (Surr)  | 88           |              | 79 - 120 |          | 05/02/16 13:31 | 1       |

Lab Sample ID: LCS 240-228375/4

Matrix: Water

Analysis Batch: 228375

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-Trichloroethane     | 10.0        | 9.68       |               | ug/L |   | 97   | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 11.3       |               | ug/L |   | 113  | 71 - 123     |
| 1,1,2-Trichloroethane     | 10.0        | 11.6       |               | ug/L |   | 116  | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 10.4       |               | ug/L |   | 104  | 79 - 125     |
| 1,1-Dichloroethene        | 10.0        | 11.2       |               | ug/L |   | 112  | 76 - 124     |
| 1,2-Dichloroethane        | 10.0        | 9.65       |               | ug/L |   | 96   | 80 - 120     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: LCS 240-228375/4

Matrix: Water

Analysis Batch: 228375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichloropropane         | 10.0        | 11.2       |               | ug/L |   | 112  | 78 - 124     |
| 2-Hexanone                  | 20.0        | 22.0       |               | ug/L |   | 110  | 55 - 141     |
| Acetone                     | 20.0        | 15.9       |               | ug/L |   | 79   | 34 - 148     |
| Benzene                     | 10.0        | 10.8       |               | ug/L |   | 108  | 80 - 120     |
| Bromoform                   | 10.0        | 11.9       |               | ug/L |   | 119  | 56 - 122     |
| Bromomethane                | 10.0        | 5.66       |               | ug/L |   | 57   | 38 - 132     |
| Carbon disulfide            | 10.0        | 11.0       |               | ug/L |   | 110  | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 10.7       |               | ug/L |   | 107  | 77 - 131     |
| Chlorobenzene               | 10.0        | 10.8       |               | ug/L |   | 108  | 80 - 120     |
| Ethyl Chloride              | 10.0        | 8.58       |               | ug/L |   | 86   | 36 - 126     |
| Chloroform                  | 10.0        | 9.99       |               | ug/L |   | 100  | 80 - 120     |
| Chloromethane               | 10.0        | 11.8       |               | ug/L |   | 118  | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 10.6       |               | ug/L |   | 106  | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 11.4       |               | ug/L |   | 114  | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| Ethylbenzene                | 10.0        | 10.8       |               | ug/L |   | 108  | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 20.7       |               | ug/L |   | 103  | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 22.8       |               | ug/L |   | 114  | 64 - 135     |
| Methylene Chloride          | 10.0        | 10.2       |               | ug/L |   | 102  | 77 - 129     |
| o-Xylene                    | 10.0        | 10.8       |               | ug/L |   | 108  | 80 - 120     |
| Styrene                     | 10.0        | 11.3       |               | ug/L |   | 113  | 76 - 122     |
| Tetrachloroethene           | 10.0        | 11.0       |               | ug/L |   | 110  | 78 - 121     |
| Toluene                     | 10.0        | 11.2       |               | ug/L |   | 112  | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 11.1       |               | ug/L |   | 111  | 75 - 131     |
| Trichloroethene             | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 121     |
| Vinyl chloride              | 10.0        | 10.8       |               | ug/L |   | 108  | 52 - 121     |
| Xylenes, Total              | 20.0        | 21.8       |               | ug/L |   | 109  | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 11.8       |               | ug/L |   | 118  | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 80            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 91            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 94            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 88            |               | 79 - 120 |

Lab Sample ID: MB 240-228616/7

Matrix: Water

Analysis Batch: 228616

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 1,1,2-Trichloroethane     | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 1,1-Dichloroethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 1,1-Dichloroethene        | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 1,2-Dichloroethane        | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/03/16 14:26 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: MB 240-228616/7

Matrix: Water

Analysis Batch: 228616

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Ethyl Chloride              | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 14:26 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 05/03/16 14:26 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 05/03/16 14:26 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Methylene Chloride          | 0.713     | J            | 1.0 | 0.33 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/03/16 14:26 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/03/16 14:26 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 05/03/16 14:26 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/03/16 14:26 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 90           |              | 78 - 125 |          | 05/03/16 14:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81           |              | 61 - 120 |          | 05/03/16 14:26 | 1       |
| Toluene-d8 (Surr)            | 91           |              | 80 - 120 |          | 05/03/16 14:26 | 1       |
| Dibromofluoromethane (Surr)  | 98           |              | 79 - 120 |          | 05/03/16 14:26 | 1       |

Lab Sample ID: LCS 240-228616/5

Matrix: Water

Analysis Batch: 228616

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-Trichloroethane     | 10.0        | 9.68       |               | ug/L |   | 97   | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 10.5       |               | ug/L |   | 105  | 71 - 123     |
| 1,1,2-Trichloroethane     | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 9.84       |               | ug/L |   | 98   | 79 - 125     |
| 1,1-Dichloroethene        | 10.0        | 11.1       |               | ug/L |   | 111  | 76 - 124     |
| 1,2-Dichloroethane        | 10.0        | 9.25       |               | ug/L |   | 93   | 80 - 120     |
| 1,2-Dichloropropane       | 10.0        | 11.0       |               | ug/L |   | 110  | 78 - 124     |
| 2-Hexanone                | 20.0        | 15.4       |               | ug/L |   | 77   | 55 - 141     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: LCS 240-228616/5

Matrix: Water

Analysis Batch: 228616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| Acetone                     | 20.0        | 16.4       |               | ug/L |   | 82   | 34 - 148     |
| Benzene                     | 10.0        | 11.2       |               | ug/L |   | 112  | 80 - 120     |
| Bromoform                   | 10.0        | 9.94       |               | ug/L |   | 99   | 56 - 122     |
| Bromomethane                | 10.0        | 9.42       |               | ug/L |   | 94   | 38 - 132     |
| Carbon disulfide            | 10.0        | 11.7       |               | ug/L |   | 117  | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 10.5       |               | ug/L |   | 105  | 77 - 131     |
| Chlorobenzene               | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120     |
| Ethyl Chloride              | 10.0        | 7.19       |               | ug/L |   | 72   | 36 - 126     |
| Chloroform                  | 10.0        | 10.6       |               | ug/L |   | 106  | 80 - 120     |
| Chloromethane               | 10.0        | 9.59       |               | ug/L |   | 96   | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 11.1       |               | ug/L |   | 111  | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 9.46       |               | ug/L |   | 95   | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 9.85       |               | ug/L |   | 98   | 80 - 120     |
| Ethylbenzene                | 10.0        | 10.9       |               | ug/L |   | 109  | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 11.3       |               | ug/L |   | 113  | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 17.8       |               | ug/L |   | 89   | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 15.9       |               | ug/L |   | 80   | 64 - 135     |
| Methylene Chloride          | 10.0        | 12.2       |               | ug/L |   | 122  | 77 - 129     |
| o-Xylene                    | 10.0        | 10.6       |               | ug/L |   | 106  | 80 - 120     |
| Styrene                     | 10.0        | 11.4       |               | ug/L |   | 114  | 76 - 122     |
| Tetrachloroethene           | 10.0        | 11.7       |               | ug/L |   | 117  | 78 - 121     |
| Toluene                     | 10.0        | 11.2       |               | ug/L |   | 112  | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 11.5       |               | ug/L |   | 115  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 8.00       |               | ug/L |   | 80   | 75 - 131     |
| Trichloroethene             | 10.0        | 11.1       |               | ug/L |   | 111  | 80 - 121     |
| Vinyl chloride              | 10.0        | 10.7       |               | ug/L |   | 107  | 52 - 121     |
| Xylenes, Total              | 20.0        | 21.9       |               | ug/L |   | 110  | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 10.6       |               | ug/L |   | 106  | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 83            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 95            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 98            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 95            |               | 79 - 120 |

Lab Sample ID: 240-63789-11 MS

Matrix: Water

Analysis Batch: 228616

Client Sample ID: GW-042016-SM-010

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 500           | U                | 5000        | 4410      |              | ug/L |   | 88   | 69 - 122     |
| 1,1,1,2-Tetrachloroethane | 500           | U                | 5000        | 5050      |              | ug/L |   | 101  | 61 - 130     |
| 1,1,2-Trichloroethane     | 500           | U                | 5000        | 5400      |              | ug/L |   | 108  | 72 - 125     |
| 1,1-Dichloroethane        | 310           | J                | 5000        | 4920      |              | ug/L |   | 92   | 73 - 124     |
| 1,1-Dichloroethene        | 500           | U                | 5000        | 5210      |              | ug/L |   | 104  | 67 - 124     |
| 1,2-Dichloroethane        | 500           | U                | 5000        | 4440      |              | ug/L |   | 89   | 74 - 125     |
| 1,2-Dichloropropane       | 500           | U                | 5000        | 5140      |              | ug/L |   | 103  | 73 - 122     |
| 2-Hexanone                | 5000          | U                | 10000       | 7790      |              | ug/L |   | 78   | 49 - 142     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: 240-63789-11 MS

Matrix: Water

Analysis Batch: 228616

Client Sample ID: GW-042016-SM-010

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Acetone                     | 5000          | U                | 10000       | 8200      |              | ug/L |   | 82   | 32 - 126     |
| Benzene                     | 500           | U                | 5000        | 5290      |              | ug/L |   | 106  | 73 - 121     |
| Bromoform                   | 500           | U                | 5000        | 4700      |              | ug/L |   | 94   | 45 - 121     |
| Bromomethane                | 500           | U                | 5000        | 4600      |              | ug/L |   | 92   | 26 - 136     |
| Carbon disulfide            | 500           | U                | 5000        | 5330      |              | ug/L |   | 107  | 54 - 144     |
| Carbon tetrachloride        | 500           | U                | 5000        | 4950      |              | ug/L |   | 99   | 65 - 129     |
| Chlorobenzene               | 500           | U                | 5000        | 5080      |              | ug/L |   | 102  | 72 - 120     |
| Ethyl Chloride              | 500           | U                | 5000        | 3420      |              | ug/L |   | 68   | 27 - 131     |
| Chloroform                  | 500           | U                | 5000        | 5010      |              | ug/L |   | 100  | 73 - 121     |
| Chloromethane               | 500           | U                | 5000        | 4840      |              | ug/L |   | 97   | 39 - 134     |
| cis-1,2-Dichloroethene      | 15000         |                  | 5000        | 20000     |              | ug/L |   | 94   | 66 - 124     |
| cis-1,3-Dichloropropene     | 500           | U                | 5000        | 4140      |              | ug/L |   | 83   | 60 - 120     |
| Dichlorobromomethane        | 500           | U                | 5000        | 4800      |              | ug/L |   | 96   | 72 - 120     |
| Ethylbenzene                | 460           | J                | 5000        | 5590      |              | ug/L |   | 102  | 68 - 121     |
| m-Xylene & p-Xylene         | 690           | J                | 5000        | 6060      |              | ug/L |   | 107  | 66 - 123     |
| 2-Butanone (MEK)            | 5000          | U                | 10000       | 8900      |              | ug/L |   | 89   | 49 - 132     |
| 4-Methyl-2-pentanone (MIBK) | 5000          | U                | 10000       | 7710      |              | ug/L |   | 77   | 58 - 136     |
| Methylene Chloride          | 420           | J B              | 5000        | 5890      |              | ug/L |   | 109  | 70 - 124     |
| o-Xylene                    | 320           | J                | 5000        | 5300      |              | ug/L |   | 100  | 68 - 121     |
| Styrene                     | 500           | U                | 5000        | 5270      |              | ug/L |   | 105  | 64 - 126     |
| Tetrachloroethene           | 500           | U                | 5000        | 5250      |              | ug/L |   | 105  | 59 - 125     |
| Toluene                     | 1500          |                  | 5000        | 6700      |              | ug/L |   | 104  | 72 - 122     |
| trans-1,2-Dichloroethene    | 500           | U                | 5000        | 5560      |              | ug/L |   | 111  | 72 - 125     |
| trans-1,3-Dichloropropene   | 500           | U                | 5000        | 3490      |              | ug/L |   | 70   | 58 - 132     |
| Trichloroethene             | 500           | U                | 5000        | 5200      |              | ug/L |   | 104  | 61 - 129     |
| Vinyl chloride              | 1500          |                  | 5000        | 6590      |              | ug/L |   | 103  | 44 - 122     |
| Xylenes, Total              | 1000          |                  | 10000       | 11400     |              | ug/L |   | 104  | 67 - 122     |
| Chlorodibromomethane        | 500           | U                | 5000        | 5140      |              | ug/L |   | 103  | 62 - 122     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 82           |              | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 94           |              | 61 - 120 |
| Toluene-d8 (Surr)            | 98           |              | 80 - 120 |
| Dibromofluoromethane (Surr)  | 96           |              | 79 - 120 |

Lab Sample ID: 240-63789-11 MSD

Matrix: Water

Analysis Batch: 228616

Client Sample ID: GW-042016-SM-010

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-Trichloroethane     | 500           | U                | 5000        | 4480       |               | ug/L |   | 90   | 69 - 122     | 2   | 14        |
| 1,1,1,2-Tetrachloroethane | 500           | U                | 5000        | 5060       |               | ug/L |   | 101  | 61 - 130     | 0   | 18        |
| 1,1,2-Trichloroethane     | 500           | U                | 5000        | 5300       |               | ug/L |   | 106  | 72 - 125     | 2   | 19        |
| 1,1-Dichloroethane        | 310           | J                | 5000        | 4900       |               | ug/L |   | 92   | 73 - 124     | 0   | 14        |
| 1,1-Dichloroethene        | 500           | U                | 5000        | 5260       |               | ug/L |   | 105  | 67 - 124     | 1   | 24        |
| 1,2-Dichloroethane        | 500           | U                | 5000        | 4400       |               | ug/L |   | 88   | 74 - 125     | 1   | 24        |
| 1,2-Dichloropropane       | 500           | U                | 5000        | 5240       |               | ug/L |   | 105  | 73 - 122     | 2   | 15        |
| 2-Hexanone                | 5000          | U                | 10000       | 7770       |               | ug/L |   | 78   | 49 - 142     | 0   | 27        |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

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

Lab Sample ID: 240-63789-11 MSD

Matrix: Water

Analysis Batch: 228616

Client Sample ID: GW-042016-SM-010

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Acetone                     | 5000          | U                | 10000       | 8430       |               | ug/L |   | 84   | 32 - 126     | 3   | 28        |
| Benzene                     | 500           | U                | 5000        | 5270       |               | ug/L |   | 105  | 73 - 121     | 0   | 13        |
| Bromoform                   | 500           | U                | 5000        | 4560       |               | ug/L |   | 91   | 45 - 121     | 3   | 19        |
| Bromomethane                | 500           | U                | 5000        | 4990       |               | ug/L |   | 100  | 26 - 136     | 8   | 35        |
| Carbon disulfide            | 500           | U                | 5000        | 5240       |               | ug/L |   | 105  | 54 - 144     | 2   | 34        |
| Carbon tetrachloride        | 500           | U                | 5000        | 4920       |               | ug/L |   | 98   | 65 - 129     | 1   | 20        |
| Chlorobenzene               | 500           | U                | 5000        | 5170       |               | ug/L |   | 103  | 72 - 120     | 2   | 15        |
| Ethyl Chloride              | 500           | U                | 5000        | 3930       |               | ug/L |   | 79   | 27 - 131     | 14  | 35        |
| Chloroform                  | 500           | U                | 5000        | 4970       |               | ug/L |   | 99   | 73 - 121     | 1   | 17        |
| Chloromethane               | 500           | U                | 5000        | 5100       |               | ug/L |   | 102  | 39 - 134     | 5   | 20        |
| cis-1,2-Dichloroethene      | 15000         |                  | 5000        | 20200      | E             | ug/L |   | 99   | 66 - 124     | 1   | 22        |
| cis-1,3-Dichloropropene     | 500           | U                | 5000        | 4280       |               | ug/L |   | 86   | 60 - 120     | 3   | 21        |
| Dichlorobromomethane        | 500           | U                | 5000        | 4710       |               | ug/L |   | 94   | 72 - 120     | 2   | 19        |
| Ethylbenzene                | 460           | J                | 5000        | 5620       |               | ug/L |   | 103  | 68 - 121     | 1   | 16        |
| m-Xylene & p-Xylene         | 690           | J                | 5000        | 5990       |               | ug/L |   | 106  | 66 - 123     | 1   | 15        |
| 2-Butanone (MEK)            | 5000          | U                | 10000       | 8910       |               | ug/L |   | 89   | 49 - 132     | 0   | 19        |
| 4-Methyl-2-pentanone (MIBK) | 5000          | U                | 10000       | 7640       |               | ug/L |   | 76   | 58 - 136     | 1   | 32        |
| Methylene Chloride          | 420           | J B              | 5000        | 5910       |               | ug/L |   | 110  | 70 - 124     | 0   | 14        |
| o-Xylene                    | 320           | J                | 5000        | 5400       |               | ug/L |   | 102  | 68 - 121     | 2   | 14        |
| Styrene                     | 500           | U                | 5000        | 5270       |               | ug/L |   | 105  | 64 - 126     | 0   | 15        |
| Tetrachloroethene           | 500           | U                | 5000        | 5300       |               | ug/L |   | 106  | 59 - 125     | 1   | 20        |
| Toluene                     | 1500          |                  | 5000        | 6700       |               | ug/L |   | 104  | 72 - 122     | 0   | 15        |
| trans-1,2-Dichloroethene    | 500           | U                | 5000        | 5550       |               | ug/L |   | 111  | 72 - 125     | 0   | 25        |
| trans-1,3-Dichloropropene   | 500           | U                | 5000        | 3600       |               | ug/L |   | 72   | 58 - 132     | 3   | 22        |
| Trichloroethene             | 500           | U                | 5000        | 5240       |               | ug/L |   | 105  | 61 - 129     | 1   | 14        |
| Vinyl chloride              | 1500          |                  | 5000        | 6860       |               | ug/L |   | 108  | 44 - 122     | 4   | 35        |
| Xylenes, Total              | 1000          |                  | 10000       | 11400      |               | ug/L |   | 104  | 67 - 122     | 0   | 14        |
| Chlorodibromomethane        | 500           | U                | 5000        | 5010       |               | ug/L |   | 100  | 62 - 122     | 3   | 19        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 81            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 95            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 99            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 94            |               | 79 - 120 |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

## GC/MS VOA

### Analysis Batch: 227561

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-63789-6      | GW-041916-SM-006   | Total/NA  | Water  | 8260B  |            |
| LCS 240-227561/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 240-227561/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 228368

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-63789-1      | GW-041916-SM-001   | Total/NA  | Water  | 8260B  |            |
| 240-63789-2      | GW-041916-SM-002   | Total/NA  | Water  | 8260B  |            |
| 240-63789-3      | GW-041916-SM-003   | Total/NA  | Water  | 8260B  |            |
| 240-63789-4      | GW-041916-SM-004   | Total/NA  | Water  | 8260B  |            |
| 240-63789-5      | GW-041916-SM-005   | Total/NA  | Water  | 8260B  |            |
| 240-63789-7      | GW-041916-SM-007   | Total/NA  | Water  | 8260B  |            |
| 240-63789-17     | RB-042016-SM-002   | Total/NA  | Water  | 8260B  |            |
| 240-63789-18     | GW-042116-SM-016   | Total/NA  | Water  | 8260B  |            |
| 240-63789-18 MS  | GW-042116-SM-016   | Total/NA  | Water  | 8260B  |            |
| 240-63789-18 MSD | GW-042116-SM-016   | Total/NA  | Water  | 8260B  |            |
| LCS 240-228368/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 240-228368/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 228375

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-63789-8      | GW-042016-SM-008   | Total/NA  | Water  | 8260B  |            |
| 240-63789-9      | GW-042016-SM-009   | Total/NA  | Water  | 8260B  |            |
| 240-63789-10     | RB-042016-SM-001   | Total/NA  | Water  | 8260B  |            |
| 240-63789-13     | GW-042016-SM-012   | Total/NA  | Water  | 8260B  |            |
| 240-63789-14     | GW-042016-SM-013   | Total/NA  | Water  | 8260B  |            |
| 240-63789-15     | GW-042016-SM-014   | Total/NA  | Water  | 8260B  |            |
| 240-63789-16     | GW-042016-SM-015   | Total/NA  | Water  | 8260B  |            |
| 240-63789-20     | GW-042116-SM-018   | Total/NA  | Water  | 8260B  |            |
| 240-63789-24     | TB-042116-SM-001   | Total/NA  | Water  | 8260B  |            |
| LCS 240-228375/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 240-228375/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 228616

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-63789-11     | GW-042016-SM-010   | Total/NA  | Water  | 8260B  |            |
| 240-63789-11 MS  | GW-042016-SM-010   | Total/NA  | Water  | 8260B  |            |
| 240-63789-11 MSD | GW-042016-SM-010   | Total/NA  | Water  | 8260B  |            |
| 240-63789-12     | GW-042016-SM-011   | Total/NA  | Water  | 8260B  |            |
| LCS 240-228616/5 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 240-228616/7  | Method Blank       | Total/NA  | Water  | 8260B  |            |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

**Client Sample ID: GW-041916-SM-001**

**Date Collected: 04/19/16 08:07**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 166.67          | 228368       | 05/02/16 13:59       | LEE     | TAL CAN |

**Client Sample ID: GW-041916-SM-002**

**Date Collected: 04/19/16 08:48**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 100             | 228368       | 05/02/16 14:22       | LEE     | TAL CAN |

**Client Sample ID: GW-041916-SM-003**

**Date Collected: 04/19/16 09:33**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 166.67          | 228368       | 05/02/16 14:44       | LEE     | TAL CAN |

**Client Sample ID: GW-041916-SM-004**

**Date Collected: 04/19/16 10:17**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 228368       | 05/02/16 15:06       | LEE     | TAL CAN |

**Client Sample ID: GW-041916-SM-005**

**Date Collected: 04/19/16 10:53**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 166.67          | 228368       | 05/02/16 15:29       | LEE     | TAL CAN |

**Client Sample ID: GW-041916-SM-006**

**Date Collected: 04/19/16 11:27**

**Date Received: 04/22/16 07:55**

**Lab Sample ID: 240-63789-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 227561       | 04/26/16 18:49       | LEE     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

**Client Sample ID: GW-041916-SM-007**

**Lab Sample ID: 240-63789-7**

**Date Collected: 04/19/16 12:13**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 33.33           | 228368       | 05/02/16 15:51       | LEE     | TAL CAN |

**Client Sample ID: GW-042016-SM-008**

**Lab Sample ID: 240-63789-8**

**Date Collected: 04/20/16 08:02**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 228375       | 05/02/16 16:11       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-009**

**Lab Sample ID: 240-63789-9**

**Date Collected: 04/20/16 08:05**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 228375       | 05/02/16 16:34       | LRW     | TAL CAN |

**Client Sample ID: RB-042016-SM-001**

**Lab Sample ID: 240-63789-10**

**Date Collected: 04/20/16 08:15**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228375       | 05/02/16 16:57       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-010**

**Lab Sample ID: 240-63789-11**

**Date Collected: 04/20/16 08:47**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 500             | 228616       | 05/03/16 19:18       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-011**

**Lab Sample ID: 240-63789-12**

**Date Collected: 04/20/16 09:23**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 500             | 228616       | 05/03/16 19:40       | LRW     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

**Client Sample ID: GW-042016-SM-012**

**Lab Sample ID: 240-63789-13**

**Date Collected: 04/20/16 10:07**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 228375       | 05/02/16 18:05       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-013**

**Lab Sample ID: 240-63789-14**

**Date Collected: 04/20/16 11:07**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 50              | 228375       | 05/02/16 18:28       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-014**

**Lab Sample ID: 240-63789-15**

**Date Collected: 04/20/16 12:37**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228375       | 05/02/16 18:51       | LRW     | TAL CAN |

**Client Sample ID: GW-042016-SM-015**

**Lab Sample ID: 240-63789-16**

**Date Collected: 04/20/16 12:40**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228375       | 05/02/16 19:13       | LRW     | TAL CAN |

**Client Sample ID: RB-042016-SM-002**

**Lab Sample ID: 240-63789-17**

**Date Collected: 04/20/16 12:50**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228368       | 05/02/16 19:34       | LEE     | TAL CAN |

**Client Sample ID: GW-042116-SM-016**

**Lab Sample ID: 240-63789-18**

**Date Collected: 04/21/16 08:13**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 228368       | 05/02/16 19:56       | LEE     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

**Client Sample ID: GW-042116-SM-018**

**Lab Sample ID: 240-63789-20**

**Date Collected: 04/21/16 09:47**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 33.33           | 228375       | 05/02/16 19:36       | LRW     | TAL CAN |

**Client Sample ID: TB-042116-SM-001**

**Lab Sample ID: 240-63789-24**

**Date Collected: 04/21/16 13:00**

**Matrix: Water**

**Date Received: 04/22/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228375       | 05/02/16 19:59       | LRW     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63789-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California        | State Program | 9          | 2927             | 04-30-17        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-17        |
| Florida           | NELAP         | 4          | E87225           | 06-30-16 *      |
| Illinois          | NELAP         | 5          | 200004           | 07-31-16 *      |
| Kansas            | NELAP         | 7          | E-10336          | 07-31-16 *      |
| Kentucky (UST)    | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)     | State Program | 4          | 98016            | 12-31-16        |
| L-A-B             | DoD ELAP      |            | L2315            | 07-18-16        |
| Minnesota         | NELAP         | 5          | 039-999-348      | 12-31-16        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-16 *      |
| New Jersey        | NELAP         | 2          | OH001            | 06-30-16 *      |
| New York          | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP          | State Program | 5          | CL0024           | 09-14-17        |
| Oregon            | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania      | NELAP         | 3          | 68-00340         | 08-31-16 *      |
| Texas             | NELAP         | 6          | T104704517-15-5  | 08-31-16 *      |
| USDA              | Federal       |            | P330-13-00319    | 11-26-16        |
| Virginia          | NELAP         | 3          | 460175           | 09-14-16        |
| Washington        | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-16        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-16 *      |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton





**CONESTOGA-ROVERS  
& ASSOCIATES**

**CHAIN OF CUSTODY RECORD**

6520 Corporate Drive, Indianapolis, Indiana 46278  
Phone: (317) 291-7007 Fax: (317) 328-2666

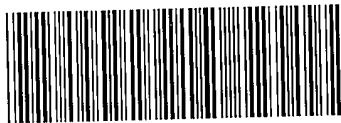
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(See Reverse Side for Instructions)

|                                                                                                                                                                           |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------|--|--|---------------------------------------|--|--|---------------------------------------------------------|--|--|
| Project No/ Phase/Task Code:<br><b>07300-T07</b>                                                                                                                          |  |  | Laboratory Name:<br><b>Test America</b> |  |  | Lab Location:<br><b>Verlin Center</b> |  |  | SSOW ID:                                                |  |  |
| Project Name:<br><b>Delpi</b>                                                                                                                                             |  |  | Lab Contact:<br><b>Dennis Hecker</b>    |  |  | Lab Quote No:                         |  |  | Cooler No:                                              |  |  |
| Project Location:<br><b>Anderson IN</b>                                                                                                                                   |  |  | SAMPLE TYPE                             |  |  | CONTAINER QUANTITY & PRESERVATION     |  |  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |  |  |
| Chemistry Contact:<br><b>Deb Andysito</b>                                                                                                                                 |  |  | Grab (g) or Comp (c)                    |  |  | Unpreserved                           |  |  | M/MSD Request                                           |  |  |
| Sampler(s):<br><b>Sam Hecker</b>                                                                                                                                          |  |  | Matrix Code                             |  |  | Hydrochloric Acid (HCl)               |  |  | Carrier:<br><b>Fedex</b>                                |  |  |
| SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on one line)                                                                                         |  |  | DATE<br>(mm/dd/yyyy)                    |  |  | TIME<br>(hh:mm)                       |  |  | Airbill No:<br><b>Fedex 8092458124</b>                  |  |  |
| 1 G4-042016-SM-015                                                                                                                                                        |  |  | 04/20/16                                |  |  | 1700                                  |  |  | Date Shipped:<br><b>4/21/16</b>                         |  |  |
| 2 R3-042016-SM-002                                                                                                                                                        |  |  | 04/20/16                                |  |  | 1750                                  |  |  | COMMENTS/<br>SPECIAL INSTRUCTIONS:                      |  |  |
| 3 G4-042116-SM-016                                                                                                                                                        |  |  | 04/21/16                                |  |  | 0813                                  |  |  |                                                         |  |  |
| 4 G4-042116-SM-016                                                                                                                                                        |  |  | ↓                                       |  |  | 947                                   |  |  |                                                         |  |  |
| 5 TR-042116-SM-001                                                                                                                                                        |  |  | 04/21/16                                |  |  | 1300                                  |  |  |                                                         |  |  |
| 6                                                                                                                                                                         |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 7                                                                                                                                                                         |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 8                                                                                                                                                                         |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 9                                                                                                                                                                         |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 10                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 11                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 12                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 13                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 14                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| 15                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  |                                                         |  |  |
| TAT Required in business days (use separate COCs for different TATs):                                                                                                     |  |  | Total Number of Containers: <b>13</b>   |  |  | Notes/ Special Requirements:          |  |  |                                                         |  |  |
| <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> Other: |  |  | All Samples in Cooler must be on COC    |  |  |                                       |  |  |                                                         |  |  |
| RELINQUISHED BY                                                                                                                                                           |  |  | DATE                                    |  |  | TIME                                  |  |  | COMPANY                                                 |  |  |
| 1.                                                                                                                                                                        |  |  | 04/21/16                                |  |  | 1700                                  |  |  | 1.                                                      |  |  |
| 2.                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  | 2.                                                      |  |  |
| 3.                                                                                                                                                                        |  |  |                                         |  |  |                                       |  |  | 3.                                                      |  |  |

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew CRA Form: COC-10A (20110804)

## CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-63789 Chain of Custody

3.8/C3.3


**CONESTOGA-ROVERS  
& ASSOCIATES**

# CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007

Fax: (317) 328-2666

COC NO.: IN- 03621

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|                                                                                                                                                                                                           |  |                                                                                    |  |                                    |  |                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|------------------------------------|--|---------------------------------------------------------|--|
| Project No/Phase/Task Code:<br>017302-T07                                                                                                                                                                 |  | Laboratory Name:<br>Test America                                                   |  | Lab Location:<br>North Canton      |  | SSOW ID:                                                |  |
| Project Name:<br>Anderson Delphi                                                                                                                                                                          |  | Lab Contact:<br>Dorise Hedder                                                      |  | Lab Quote No:                      |  | Cooler No:                                              |  |
| Project Location:<br>Anderson IN                                                                                                                                                                          |  | SAMPLE TYPE                                                                        |  | CONTAINER QUANTITY & PRESERVATION  |  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |  |
| Chemistry Contact:                                                                                                                                                                                        |  | Matrix Code<br>(see back of COC)                                                   |  | Grab (g) or Comp (c)               |  | Unpreserved                                             |  |
| Sample(s):<br>Sam Melcosky                                                                                                                                                                                |  | DATE<br>(mm/dd/yy)                                                                 |  | TIME<br>(hh:mm)                    |  | Total Containers/Sample                                 |  |
| 1 Gw-041916-Sm-001                                                                                                                                                                                        |  | 04/19/16                                                                           |  | 807                                |  | 3 X                                                     |  |
| 2 -002                                                                                                                                                                                                    |  | ↓                                                                                  |  | 848                                |  | 3 X                                                     |  |
| 3 -003                                                                                                                                                                                                    |  | ↓                                                                                  |  | 933                                |  | 3 X                                                     |  |
| 4 -004                                                                                                                                                                                                    |  | ↓                                                                                  |  | 1017                               |  | 3 X                                                     |  |
| 5 -005                                                                                                                                                                                                    |  | ↓                                                                                  |  | 1053                               |  | 3 X                                                     |  |
| 6 -006                                                                                                                                                                                                    |  | ↓                                                                                  |  | 1107                               |  | 3 X                                                     |  |
| 7 Gw-041916-Sm-007                                                                                                                                                                                        |  | 04/19/16                                                                           |  | 1213                               |  | 3 X                                                     |  |
| 8 Gw-042010-Sm-008                                                                                                                                                                                        |  | 04/20/16                                                                           |  | 802                                |  | 3 X                                                     |  |
| 9 Gw-042010-Sm-009                                                                                                                                                                                        |  | ↓                                                                                  |  | 805                                |  | 3 X                                                     |  |
| 10 RB-042016-Sm-001                                                                                                                                                                                       |  | ↓                                                                                  |  | 815                                |  | 3 X                                                     |  |
| 11 Gw-042016-Sm-010                                                                                                                                                                                       |  | ↓                                                                                  |  | 847                                |  | 3 X                                                     |  |
| 12 Gw-042016-Sm-011                                                                                                                                                                                       |  | ↓                                                                                  |  | 923                                |  | 3 X                                                     |  |
| 13 -012                                                                                                                                                                                                   |  | ↓                                                                                  |  | 1007                               |  | 3 X                                                     |  |
| 14 -013                                                                                                                                                                                                   |  | ↓                                                                                  |  | 1107                               |  | 3 X                                                     |  |
| 15 Gw-042016-Sm-014                                                                                                                                                                                       |  | 04/20/16                                                                           |  | 1237                               |  | 3 X                                                     |  |
| TAT Required in business days (use separate COCs for different TATs):                                                                                                                                     |  | DATE                                                                               |  | TIME                               |  | Notes/ Special Requirements:                            |  |
| <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week <input type="checkbox"/> Other: |  | 4/22/16                                                                            |  | 1700                               |  | Total Number of Containers: 15                          |  |
| RELINQUISHED BY                                                                                                                                                                                           |  | COMPANY                                                                            |  | RECEIVED BY                        |  | COMPANY                                                 |  |
| 1. Sam                                                                                                                                                                                                    |  | CRA                                                                                |  | Dorise Hedder                      |  | TAA Can                                                 |  |
| 2.                                                                                                                                                                                                        |  |                                                                                    |  | 2.                                 |  |                                                         |  |
| 3.                                                                                                                                                                                                        |  |                                                                                    |  | 3.                                 |  |                                                         |  |
| Distribution:                                                                                                                                                                                             |  | WHITE - Fully Executed Copy (CRA)                                                  |  | YELLOW - Receiving Laboratory Copy |  | PINK - Shipper                                          |  |
|                                                                                                                                                                                                           |  | THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY |  | GOLDENROD - Sampling Crew          |  | CRA Form: COC-10A (20110804)                            |  |



**CONESTOGA-ROVERS  
& ASSOCIATES**

# CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278

Phone: (317) 291-7007

Fax: (317) 328-2666

COC NO.: IN- 040666

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|                                            |  |                                                                                   |  |                                   |  |                                                         |  |
|--------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------|--|---------------------------------------------------------|--|
| Project No./Phase/Task Code:<br>017302-107 |  | Laboratory Name:<br>Test America                                                  |  | Lab Location:<br>North Center     |  | SSOW ID:                                                |  |
| Project Name:<br>Delphi 1                  |  | Lab Contact:<br>Denise Hedeker                                                    |  | Lab Quote No:                     |  | Cooler No:                                              |  |
| Project Location:<br>Anderson              |  | SAMPLE TYPE                                                                       |  | CONTAINER QUANTITY & PRESERVATION |  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |  |
| Chemistry Contact:<br>Deb Andrusko         |  | Matrix Code<br>(see back of COC)                                                  |  | Grab (G) or Comp (C)              |  | Unpreserved                                             |  |
| Sampler(s):<br>Sam Malecosky               |  | DATE<br>(mm/dd/yyyy)                                                              |  | TIME<br>(hh:mm)                   |  | Total Containers/Sample                                 |  |
| Item                                       |  | SAMPLE IDENTIFICATION<br>(Containers for each sample may be combined on one line) |  | DATE                              |  | TIME                                                    |  |
| 1                                          |  | Gw-012016-Sm-015                                                                  |  | 04/20/16                          |  | 1240                                                    |  |
| 2                                          |  | RB-042016-Sm-002                                                                  |  | 04/20/16                          |  | 1350                                                    |  |
| 3                                          |  | Gw-042116-Sm-016                                                                  |  | 04/21/16                          |  | 813                                                     |  |
| 4                                          |  | -017                                                                              |  | 903                               |  | W6                                                      |  |
| 5                                          |  | -018                                                                              |  | 947                               |  | W6                                                      |  |
| 6                                          |  | -019                                                                              |  | 1037                              |  | W6                                                      |  |
| 7                                          |  | -020                                                                              |  | 1127                              |  | W6                                                      |  |
| 8                                          |  | Gw-042116-Sm-021                                                                  |  | 04/21/16                          |  | 1217                                                    |  |
| 9                                          |  | TB-042116-Sm-001                                                                  |  | 04/21/16                          |  | 1300                                                    |  |
| 10                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 37                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 43                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 51                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 52                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 53                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 54                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 55                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 56                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 57                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 58                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 59                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 60                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 63                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 66                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 78                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 79                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 81                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 83                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 84                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 86                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 93                                         |  |                                                                                   |  |                                   |  |                                                         |  |
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| 97                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 98                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 99                                         |  |                                                                                   |  |                                   |  |                                                         |  |
| 100                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 101                                        |  |                                                                                   |  |                                   |  |                                                         |  |
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| 103                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 104                                        |  |                                                                                   |  |                                   |  |                                                         |  |
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| 108                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 109                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 110                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 111                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 112                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 113                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 114                                        |  |                                                                                   |  |                                   |  |                                                         |  |
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| 117                                        |  |                                                                                   |  |                                   |  |                                                         |  |
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| 121                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 122                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 123                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 124                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 125                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 126                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 127                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 128                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 129                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 130                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 131                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 132                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 133                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 134                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 135                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 136                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 137                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 138                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 139                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 140                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 141                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 142                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 143                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 144                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 145                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 146                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 147                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 148                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 149                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 150                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 151                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 152                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 153                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 154                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 155                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 156                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 157                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 158                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 159                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 160                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 161                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 162                                        |  |                                                                                   |  |                                   |  |                                                         |  |
| 163                                        |  |                                                                                   |  |                                   |  |                                                         |  |
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| 320                                        |  |                                                                                   |  |                                   |  |                                                         |  |



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u>  | <u>Container Type</u>            | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|----------------|----------------------------------|-------------------------------|-------------------------------------------|--------------|
| GW-042116-SM-016        | 240-63789-D-18 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |
| GW-042116-SM-017        | 240-63789-A-19 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |
| GW-042116-SM-018        | 240-63789-D-20 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |
| GW-042116-SM-019        | 240-63789-A-21 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |
| GW-042116-SM-020        | 240-63789-A-22 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |
| GW-042116-SM-021        | 240-63789-A-23 | Plastic 250ml - with Nitric Acid | <2                            | _____                                     | _____        |



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-63934-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

5/5/2016 9:20:58 AM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| 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.                                                                    |
| X         | Surrogate is outside control limits                                                                            |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

**Job ID: 240-63934-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-63934-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/26/2016 7:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

#### GC/MS VOA

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.

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-63934-1   | GW-042216-SM-022 | Water  | 04/22/16 08:57 | 04/26/16 07:55 |
| 240-63934-2   | GW-042216-SM-023 | Water  | 04/22/16 09:47 | 04/26/16 07:55 |
| 240-63934-3   | GW-042216-SM-024 | Water  | 04/22/16 09:50 | 04/26/16 07:55 |
| 240-63934-4   | RB-042216-SM-003 | Water  | 04/22/16 09:00 | 04/26/16 07:55 |
| 240-63934-5   | SW-042216-SM-001 | Water  | 04/22/16 09:20 | 04/26/16 07:55 |
| 240-63934-6   | SW-042216-SM-002 | Water  | 04/22/16 09:23 | 04/26/16 07:55 |
| 240-63934-7   | TB-042216-SM-002 | Water  | 04/22/16 10:00 | 04/26/16 07:55 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

## Client Sample ID: GW-042216-SM-022

## Lab Sample ID: 240-63934-1

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 290    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 9400   |           | 500 | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 470    | J B       | 500 | 170 | ug/L | 500     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 230    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| Trichloroethene          | 800    |           | 500 | 110 | ug/L | 500     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 530    |           | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042216-SM-023

## Lab Sample ID: 240-63934-2

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 310    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 9900   |           | 500 | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 440    | J B       | 500 | 170 | ug/L | 500     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 230    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 340    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-042216-SM-024

## Lab Sample ID: 240-63934-3

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 330    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 10000  |           | 500 | 130 | ug/L | 500     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 430    | J B       | 500 | 170 | ug/L | 500     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 260    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 350    | J         | 500 | 150 | ug/L | 500     |   | 8260B  | Total/NA  |

## Client Sample ID: RB-042216-SM-003

## Lab Sample ID: 240-63934-4

No Detections.

## Client Sample ID: SW-042216-SM-001

## Lab Sample ID: 240-63934-5

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 5.9    |           | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 120    |           | 5.0 | 1.3 | ug/L | 5       |   | 8260B  | Total/NA  |
| Methylene Chloride       | 5.3    | B         | 5.0 | 1.7 | ug/L | 5       |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 5.3    |           | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |
| Vinyl chloride           | 7.8    |           | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |

## Client Sample ID: SW-042216-SM-002

## Lab Sample ID: 240-63934-6

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 3.4    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 77     |           | 2.5 | 0.65 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 2.5    | B         | 2.5 | 0.83 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 3.0    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 4.4    |           | 2.5 | 0.73 | ug/L | 2.5     |   | 8260B  | Total/NA  |

## Client Sample ID: TB-042216-SM-002

## Lab Sample ID: 240-63934-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: GW-042216-SM-022

Date Collected: 04/22/16 08:57

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-1

Matrix: Water

| Analyte                         | Result      | Qualifier  | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|------------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane           | 500         | U          | 500  | 220 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 1,1,2,2-Tetrachloroethane       | 500         | U          | 500  | 110 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 1,1,2-Trichloroethane           | 500         | U          | 500  | 120 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>1,1-Dichloroethane</b>       | <b>290</b>  | <b>J</b>   | 500  | 150 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 1,1-Dichloroethene              | 500         | U          | 500  | 230 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 1,2-Dichloroethane              | 500         | U          | 500  | 120 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 1,2-Dichloropropane             | 500         | U          | 500  | 130 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 2-Hexanone                      | 5000        | U          | 5000 | 240 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Acetone                         | 5000        | U          | 5000 | 470 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Benzene                         | 500         | U          | 500  | 180 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Bromoform                       | 500         | U          | 500  | 280 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Bromomethane                    | 500         | U          | 500  | 220 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Carbon disulfide                | 500         | U          | 500  | 190 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Carbon tetrachloride            | 500         | U          | 500  | 220 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Chlorobenzene                   | 500         | U          | 500  | 130 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Chloroethane                    | 500         | U          | 500  | 160 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Chloroform                      | 500         | U          | 500  | 130 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Chloromethane                   | 500         | U          | 500  | 220 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>cis-1,2-Dichloroethene</b>   | <b>9400</b> |            | 500  | 130 | ug/L |   |          | 05/03/16 22:59 | 500     |
| cis-1,3-Dichloropropene         | 500         | U          | 500  | 230 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Dichlorobromomethane            | 500         | U          | 500  | 150 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Ethylbenzene                    | 500         | U          | 500  | 130 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 2-Butanone (MEK)                | 5000        | U          | 5000 | 270 | ug/L |   |          | 05/03/16 22:59 | 500     |
| 4-Methyl-2-pentanone (MIBK)     | 5000        | U          | 5000 | 500 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>Methylene Chloride</b>       | <b>470</b>  | <b>J B</b> | 500  | 170 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Styrene                         | 500         | U          | 500  | 230 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Tetrachloroethene               | 500         | U          | 500  | 160 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Toluene                         | 500         | U          | 500  | 120 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>trans-1,2-Dichloroethene</b> | <b>230</b>  | <b>J</b>   | 500  | 150 | ug/L |   |          | 05/03/16 22:59 | 500     |
| trans-1,3-Dichloropropene       | 500         | U          | 500  | 280 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>Trichloroethene</b>          | <b>800</b>  |            | 500  | 110 | ug/L |   |          | 05/03/16 22:59 | 500     |
| <b>Vinyl chloride</b>           | <b>530</b>  |            | 500  | 150 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Xylenes, Total                  | 1000        | U          | 1000 | 260 | ug/L |   |          | 05/03/16 22:59 | 500     |
| Chlorodibromomethane            | 500         | U          | 500  | 220 | ug/L |   |          | 05/03/16 22:59 | 500     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 78 - 125 |          | 05/03/16 22:59 | 500     |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 61 - 120 |          | 05/03/16 22:59 | 500     |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/03/16 22:59 | 500     |
| Dibromofluoromethane (Surr)  | 87        |           | 79 - 120 |          | 05/03/16 22:59 | 500     |

Client Sample ID: GW-042216-SM-023

Date Collected: 04/22/16 09:47

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-2

Matrix: Water

| Analyte                   | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 500        | U         | 500 | 220 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 1,1,2,2-Tetrachloroethane | 500        | U         | 500 | 110 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 1,1,2-Trichloroethane     | 500        | U         | 500 | 120 | ug/L |   |          | 05/03/16 23:22 | 500     |
| <b>1,1-Dichloroethane</b> | <b>310</b> | <b>J</b>  | 500 | 150 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 1,1-Dichloroethene        | 500        | U         | 500 | 230 | ug/L |   |          | 05/03/16 23:22 | 500     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: GW-042216-SM-023

Date Collected: 04/22/16 09:47

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 500       | U         | 500      | 120 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 1,2-Dichloropropane          | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 2-Hexanone                   | 5000      | U         | 5000     | 240 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Acetone                      | 5000      | U         | 5000     | 470 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Benzene                      | 500       | U         | 500      | 180 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Bromoform                    | 500       | U         | 500      | 280 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Bromomethane                 | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Carbon disulfide             | 500       | U         | 500      | 190 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Carbon tetrachloride         | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Chlorobenzene                | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Chloroethane                 | 500       | U         | 500      | 160 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Chloroform                   | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Chloromethane                | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 23:22 | 500     |
| cis-1,2-Dichloroethene       | 9900      |           | 500      | 130 | ug/L |   |          | 05/03/16 23:22 | 500     |
| cis-1,3-Dichloropropene      | 500       | U         | 500      | 230 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Dichlorobromomethane         | 500       | U         | 500      | 150 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Ethylbenzene                 | 500       | U         | 500      | 130 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 2-Butanone (MEK)             | 5000      | U         | 5000     | 270 | ug/L |   |          | 05/03/16 23:22 | 500     |
| 4-Methyl-2-pentanone (MIBK)  | 5000      | U         | 5000     | 500 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Methylene Chloride           | 440       | J B       | 500      | 170 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Styrene                      | 500       | U         | 500      | 230 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Tetrachloroethene            | 500       | U         | 500      | 160 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Toluene                      | 500       | U         | 500      | 120 | ug/L |   |          | 05/03/16 23:22 | 500     |
| trans-1,2-Dichloroethene     | 230       | J         | 500      | 150 | ug/L |   |          | 05/03/16 23:22 | 500     |
| trans-1,3-Dichloropropene    | 500       | U         | 500      | 280 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Trichloroethene              | 500       | U         | 500      | 110 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Vinyl chloride               | 340       | J         | 500      | 150 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Xylenes, Total               | 1000      | U         | 1000     | 260 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Chlorodibromomethane         | 500       | U         | 500      | 220 | ug/L |   |          | 05/03/16 23:22 | 500     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 78 - 125 |     |      |   |          | 05/03/16 23:22 | 500     |
| 4-Bromofluorobenzene (Surr)  | 83        |           | 61 - 120 |     |      |   |          | 05/03/16 23:22 | 500     |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |     |      |   |          | 05/03/16 23:22 | 500     |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |     |      |   |          | 05/03/16 23:22 | 500     |

Client Sample ID: GW-042216-SM-024

Date Collected: 04/22/16 09:50

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,1,1,2-Tetrachloroethane | 500    | U         | 500  | 110 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,1,2-Trichloroethane     | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,1-Dichloroethane        | 330    | J         | 500  | 150 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,1-Dichloroethene        | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,2-Dichloroethane        | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 1,2-Dichloropropane       | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 2-Hexanone                | 5000   | U         | 5000 | 240 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Acetone                   | 5000   | U         | 5000 | 470 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Benzene                   | 500    | U         | 500  | 180 | ug/L |   |          | 05/03/16 23:45 | 500     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: GW-042216-SM-024

Date Collected: 04/22/16 09:50

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 500    | U         | 500  | 280 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Bromomethane                | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Carbon disulfide            | 500    | U         | 500  | 190 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Carbon tetrachloride        | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Chlorobenzene               | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Chloroethane                | 500    | U         | 500  | 160 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Chloroform                  | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Chloromethane               | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 23:45 | 500     |
| cis-1,2-Dichloroethene      | 10000  |           | 500  | 130 | ug/L |   |          | 05/03/16 23:45 | 500     |
| cis-1,3-Dichloropropene     | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Dichlorobromomethane        | 500    | U         | 500  | 150 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Ethylbenzene                | 500    | U         | 500  | 130 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 2-Butanone (MEK)            | 5000   | U         | 5000 | 270 | ug/L |   |          | 05/03/16 23:45 | 500     |
| 4-Methyl-2-pentanone (MIBK) | 5000   | U         | 5000 | 500 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Methylene Chloride          | 430    | J B       | 500  | 170 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Styrene                     | 500    | U         | 500  | 230 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Tetrachloroethene           | 500    | U         | 500  | 160 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Toluene                     | 500    | U         | 500  | 120 | ug/L |   |          | 05/03/16 23:45 | 500     |
| trans-1,2-Dichloroethene    | 260    | J         | 500  | 150 | ug/L |   |          | 05/03/16 23:45 | 500     |
| trans-1,3-Dichloropropene   | 500    | U         | 500  | 280 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Trichloroethene             | 500    | U         | 500  | 110 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Vinyl chloride              | 350    | J         | 500  | 150 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Xylenes, Total              | 1000   | U         | 1000 | 260 | ug/L |   |          | 05/03/16 23:45 | 500     |
| Chlorodibromomethane        | 500    | U         | 500  | 220 | ug/L |   |          | 05/03/16 23:45 | 500     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 78 - 125 |          | 05/03/16 23:45 | 500     |
| 4-Bromofluorobenzene (Surr)  | 83        |           | 61 - 120 |          | 05/03/16 23:45 | 500     |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 05/03/16 23:45 | 500     |
| Dibromofluoromethane (Surr)  | 86        |           | 79 - 120 |          | 05/03/16 23:45 | 500     |

Client Sample ID: RB-042216-SM-003

Date Collected: 04/22/16 09:00

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Acetone                   | 10     | U         | 10  | 0.94 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 00:07 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: RB-042216-SM-003

Date Collected: 04/22/16 09:00

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 00:07 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/04/16 00:07 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/04/16 00:07 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/04/16 00:07 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/04/16 00:07 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 05/04/16 00:07 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/04/16 00:07 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 79        |           | 78 - 125 |          | 05/04/16 00:07 | 1       |
| 4-Bromofluorobenzene (Surr)  | 82        |           | 61 - 120 |          | 05/04/16 00:07 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/04/16 00:07 | 1       |
| Dibromofluoromethane (Surr)  | 83        |           | 79 - 120 |          | 05/04/16 00:07 | 1       |

Client Sample ID: SW-042216-SM-001

Date Collected: 04/22/16 09:20

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,1,1,2,2-Tetrachloroethane | 5.0    | U         | 5.0 | 1.1 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,1,1,2-Trichloroethane     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,1-Dichloroethane          | 5.9    |           | 5.0 | 1.5 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,1-Dichloroethene          | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,2-Dichloroethane          | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 1,2-Dichloropropane         | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 2-Hexanone                  | 50     | U         | 50  | 2.4 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Acetone                     | 50     | U         | 50  | 4.7 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Benzene                     | 5.0    | U         | 5.0 | 1.8 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Bromoform                   | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Bromomethane                | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Carbon disulfide            | 5.0    | U         | 5.0 | 1.9 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Carbon tetrachloride        | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Chlorobenzene               | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Chloroethane                | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Chloroform                  | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Chloromethane               | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| cis-1,2-Dichloroethene      | 120    |           | 5.0 | 1.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| cis-1,3-Dichloropropene     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/04/16 00:30 | 5       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: SW-042216-SM-001

Date Collected: 04/22/16 09:20

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 5.0    | U         | 5.0 | 1.5 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Ethylbenzene                | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 2-Butanone (MEK)            | 50     | U         | 50  | 2.7 | ug/L |   |          | 05/04/16 00:30 | 5       |
| 4-Methyl-2-pentanone (MIBK) | 50     | U         | 50  | 5.0 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Methylene Chloride          | 5.3    | B         | 5.0 | 1.7 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Styrene                     | 5.0    | U         | 5.0 | 2.3 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Tetrachloroethene           | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Toluene                     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 05/04/16 00:30 | 5       |
| trans-1,2-Dichloroethene    | 5.3    |           | 5.0 | 1.5 | ug/L |   |          | 05/04/16 00:30 | 5       |
| trans-1,3-Dichloropropene   | 5.0    | U         | 5.0 | 2.8 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Trichloroethene             | 5.0    | U         | 5.0 | 1.1 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Vinyl chloride              | 7.8    |           | 5.0 | 1.5 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Xylenes, Total              | 10     | U         | 10  | 2.6 | ug/L |   |          | 05/04/16 00:30 | 5       |
| Chlorodibromomethane        | 5.0    | U         | 5.0 | 2.2 | ug/L |   |          | 05/04/16 00:30 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 78 - 125 |          | 05/04/16 00:30 | 5       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 61 - 120 |          | 05/04/16 00:30 | 5       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 05/04/16 00:30 | 5       |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |          | 05/04/16 00:30 | 5       |

Client Sample ID: SW-042216-SM-002

Date Collected: 04/22/16 09:23

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,1,1,2-Tetrachloroethane   | 2.5    | U         | 2.5 | 0.55 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,1,2-Trichloroethane       | 2.5    | U         | 2.5 | 0.60 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,1-Dichloroethane          | 3.4    |           | 2.5 | 0.75 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,1-Dichloroethene          | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,2-Dichloroethane          | 2.5    | U         | 2.5 | 0.58 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 1,2-Dichloropropane         | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 2-Hexanone                  | 25     | U         | 25  | 1.2  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Acetone                     | 25     | U         | 25  | 2.4  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Benzene                     | 2.5    | U         | 2.5 | 0.88 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Bromoform                   | 2.5    | U         | 2.5 | 1.4  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Bromomethane                | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Carbon disulfide            | 2.5    | U         | 2.5 | 0.95 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Carbon tetrachloride        | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Chlorobenzene               | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Chloroethane                | 2.5    | U         | 2.5 | 0.80 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Chloroform                  | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Chloromethane               | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| cis-1,2-Dichloroethene      | 77     |           | 2.5 | 0.65 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| cis-1,3-Dichloropropene     | 2.5    | U         | 2.5 | 1.2  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Dichlorobromomethane        | 2.5    | U         | 2.5 | 0.73 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Ethylbenzene                | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 2-Butanone (MEK)            | 25     | U         | 25  | 1.3  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| 4-Methyl-2-pentanone (MIBK) | 25     | U         | 25  | 2.5  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Methylene Chloride          | 2.5    | B         | 2.5 | 0.83 | ug/L |   |          | 05/04/16 00:53 | 2.5     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: SW-042216-SM-002

Date Collected: 04/22/16 09:23

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-6

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Tetrachloroethene            | 2.5       | U         | 2.5      | 0.78 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Toluene                      | 2.5       | U         | 2.5      | 0.58 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| trans-1,2-Dichloroethene     | 3.0       |           | 2.5      | 0.75 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| trans-1,3-Dichloropropene    | 2.5       | U         | 2.5      | 1.4  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Trichloroethene              | 2.5       | U         | 2.5      | 0.55 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Vinyl chloride               | 4.4       |           | 2.5      | 0.73 | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Xylenes, Total               | 5.0       | U         | 5.0      | 1.3  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Chlorodibromomethane         | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 05/04/16 00:53 | 2.5     |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 78 - 125 |      |      |   |          | 05/04/16 00:53 | 2.5     |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 61 - 120 |      |      |   |          | 05/04/16 00:53 | 2.5     |
| Toluene-d8 (Surr)            | 90        |           | 80 - 120 |      |      |   |          | 05/04/16 00:53 | 2.5     |
| Dibromofluoromethane (Surr)  | 85        |           | 79 - 120 |      |      |   |          | 05/04/16 00:53 | 2.5     |

Client Sample ID: TB-042216-SM-002

Date Collected: 04/22/16 10:00

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-7

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 0.48 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Acetone                     | 10     | U         | 10  | 0.94 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/04/16 01:15 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 05/04/16 01:15 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 05/04/16 01:15 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 05/04/16 01:15 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 05/04/16 01:15 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 05/04/16 01:15 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Client Sample ID: TB-042216-SM-002

Date Collected: 04/22/16 10:00

Date Received: 04/26/16 07:55

Lab Sample ID: 240-63934-7

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Trichloroethene      | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Vinyl chloride       | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Xylenes, Total       | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 05/04/16 01:15 | 1       |
| Chlorodibromomethane | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 05/04/16 01:15 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 78 - 125 |          | 05/04/16 01:15 | 1       |
| 4-Bromofluorobenzene (Surr)  | 82        |           | 61 - 120 |          | 05/04/16 01:15 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 05/04/16 01:15 | 1       |
| Dibromofluoromethane (Surr)  | 86        |           | 79 - 120 |          | 05/04/16 01:15 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID     | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|-------------------|--------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                   |                    | 12DCE<br>(78-125)                              | BFB<br>(61-120) | TOL<br>(80-120) | DBFM<br>(79-120) |
| 240-63934-1       | GW-042216-SM-022   | 82                                             | 84              | 93              | 87               |
| 240-63934-1 MS    | GW-042216-SM-022   | 80                                             | 88              | 92              | 87               |
| 240-63934-1 MSD   | GW-042216-SM-022   | 77 X                                           | 87              | 93              | 85               |
| 240-63934-2       | GW-042216-SM-023   | 82                                             | 83              | 92              | 85               |
| 240-63934-3       | GW-042216-SM-024   | 81                                             | 83              | 92              | 86               |
| 240-63934-4       | RB-042216-SM-003   | 79                                             | 82              | 93              | 83               |
| 240-63934-5       | SW-042216-SM-001   | 82                                             | 84              | 93              | 85               |
| 240-63934-6       | SW-042216-SM-002   | 81                                             | 81              | 90              | 85               |
| 240-63934-7       | TB-042216-SM-002   | 82                                             | 82              | 92              | 86               |
| LCS 240-228666/30 | Lab Control Sample | 83                                             | 91              | 98              | 89               |
| MB 240-228666/6   | Method Blank       | 80                                             | 85              | 93              | 86               |

## Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Lab Sample ID: MB 240-228666/6

Matrix: Water

Analysis Batch: 228666

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 05/03/16 22:36 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 05/03/16 22:36 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 05/03/16 22:36 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Methylene Chloride          | 0.812     | J            | 1.0 | 0.33 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 05/03/16 22:36 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 05/03/16 22:36 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 05/03/16 22:36 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 05/03/16 22:36 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80           |              | 78 - 125 |          | 05/03/16 22:36 | 1       |
| 4-Bromofluorobenzene (Surr)  | 85           |              | 61 - 120 |          | 05/03/16 22:36 | 1       |
| Toluene-d8 (Surr)            | 93           |              | 80 - 120 |          | 05/03/16 22:36 | 1       |
| Dibromofluoromethane (Surr)  | 86           |              | 79 - 120 |          | 05/03/16 22:36 | 1       |

Lab Sample ID: LCS 240-228666/30

Matrix: Water

Analysis Batch: 228666

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-Trichloroethane     | 10.0        | 9.49       |               | ug/L |   | 95   | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 11.4       |               | ug/L |   | 114  | 71 - 123     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Lab Sample ID: LCS 240-228666/30

Matrix: Water

Analysis Batch: 228666

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 11.8       |               | ug/L |   | 118  | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 10.1       |               | ug/L |   | 101  | 79 - 125     |
| 1,1-Dichloroethene          | 10.0        | 11.4       |               | ug/L |   | 114  | 76 - 124     |
| 1,2-Dichloroethane          | 10.0        | 9.89       |               | ug/L |   | 99   | 80 - 120     |
| 1,2-Dichloropropane         | 10.0        | 11.4       |               | ug/L |   | 114  | 78 - 124     |
| 2-Hexanone                  | 20.0        | 21.3       |               | ug/L |   | 107  | 55 - 141     |
| Acetone                     | 20.0        | 14.1       |               | ug/L |   | 71   | 34 - 148     |
| Benzene                     | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 120     |
| Bromoform                   | 10.0        | 10.9       |               | ug/L |   | 109  | 56 - 122     |
| Bromomethane                | 10.0        | 4.38       |               | ug/L |   | 44   | 38 - 132     |
| Carbon disulfide            | 10.0        | 10.5       |               | ug/L |   | 105  | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 10.5       |               | ug/L |   | 105  | 77 - 131     |
| Chlorobenzene               | 10.0        | 11.1       |               | ug/L |   | 111  | 80 - 120     |
| Chloroethane                | 10.0        | 7.65       |               | ug/L |   | 76   | 36 - 126     |
| Chloroform                  | 10.0        | 9.95       |               | ug/L |   | 99   | 80 - 120     |
| Chloromethane               | 10.0        | 11.2       |               | ug/L |   | 112  | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 10.5       |               | ug/L |   | 105  | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 11.0       |               | ug/L |   | 110  | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 10.3       |               | ug/L |   | 103  | 80 - 120     |
| Ethylbenzene                | 10.0        | 11.2       |               | ug/L |   | 112  | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 11.4       |               | ug/L |   | 114  | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 18.7       |               | ug/L |   | 93   | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 21.2       |               | ug/L |   | 106  | 64 - 135     |
| Methylene Chloride          | 10.0        | 10.8       |               | ug/L |   | 108  | 77 - 129     |
| o-Xylene                    | 10.0        | 10.9       |               | ug/L |   | 109  | 80 - 120     |
| Styrene                     | 10.0        | 11.3       |               | ug/L |   | 113  | 76 - 122     |
| Tetrachloroethene           | 10.0        | 11.1       |               | ug/L |   | 111  | 78 - 121     |
| Toluene                     | 10.0        | 11.4       |               | ug/L |   | 114  | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 10.8       |               | ug/L |   | 108  | 75 - 131     |
| Trichloroethene             | 10.0        | 11.0       |               | ug/L |   | 110  | 80 - 121     |
| Vinyl chloride              | 10.0        | 10.5       |               | ug/L |   | 105  | 52 - 121     |
| Xylenes, Total              | 20.0        | 22.3       |               | ug/L |   | 112  | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 11.1       |               | ug/L |   | 111  | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 83            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 91            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 98            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 89            |               | 79 - 120 |

Lab Sample ID: 240-63934-1 MS

Matrix: Water

Analysis Batch: 228666

Client Sample ID: GW-042216-SM-022

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 500           | U                | 5000        | 4300      |              | ug/L |   | 86   | 69 - 122     |
| 1,1,2,2-Tetrachloroethane | 500           | U                | 5000        | 5380      |              | ug/L |   | 108  | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Lab Sample ID: 240-63934-1 MS

Matrix: Water

Analysis Batch: 228666

Client Sample ID: GW-042216-SM-022

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 500           | U                | 5000        | 5480      |              | ug/L |   | 110  | 72 - 125     |
| 1,1-Dichloroethane          | 290           | J                | 5000        | 5250      |              | ug/L |   | 99   | 73 - 124     |
| 1,1-Dichloroethene          | 500           | U                | 5000        | 5250      |              | ug/L |   | 105  | 67 - 124     |
| 1,2-Dichloroethane          | 500           | U                | 5000        | 4990      |              | ug/L |   | 100  | 74 - 125     |
| 1,2-Dichloropropane         | 500           | U                | 5000        | 5490      |              | ug/L |   | 110  | 73 - 122     |
| 2-Hexanone                  | 5000          | U                | 10000       | 10000     |              | ug/L |   | 100  | 49 - 142     |
| Acetone                     | 5000          | U                | 10000       | 7320      |              | ug/L |   | 73   | 32 - 126     |
| Benzene                     | 500           | U                | 5000        | 5240      |              | ug/L |   | 105  | 73 - 121     |
| Bromoform                   | 500           | U                | 5000        | 5210      |              | ug/L |   | 104  | 45 - 121     |
| Bromomethane                | 500           | U                | 5000        | 2190      |              | ug/L |   | 44   | 26 - 136     |
| Carbon disulfide            | 500           | U                | 5000        | 4710      |              | ug/L |   | 94   | 54 - 144     |
| Carbon tetrachloride        | 500           | U                | 5000        | 4680      |              | ug/L |   | 94   | 65 - 129     |
| Chlorobenzene               | 500           | U                | 5000        | 4610      |              | ug/L |   | 92   | 72 - 120     |
| Chloroethane                | 500           | U                | 5000        | 3740      |              | ug/L |   | 75   | 27 - 131     |
| Chloroform                  | 500           | U                | 5000        | 4920      |              | ug/L |   | 98   | 73 - 121     |
| Chloromethane               | 500           | U                | 5000        | 5700      |              | ug/L |   | 114  | 39 - 134     |
| cis-1,2-Dichloroethene      | 9400          |                  | 5000        | 14600     |              | ug/L |   | 105  | 66 - 124     |
| cis-1,3-Dichloropropene     | 500           | U                | 5000        | 5050      |              | ug/L |   | 101  | 60 - 120     |
| Dichlorobromomethane        | 500           | U                | 5000        | 5040      |              | ug/L |   | 101  | 72 - 120     |
| Ethylbenzene                | 500           | U                | 5000        | 4550      |              | ug/L |   | 91   | 68 - 121     |
| m-Xylene & p-Xylene         | 1000          | U                | 5000        | 4500      |              | ug/L |   | 90   | 66 - 123     |
| 2-Butanone (MEK)            | 5000          | U                | 10000       | 9570      |              | ug/L |   | 96   | 49 - 132     |
| 4-Methyl-2-pentanone (MIBK) | 5000          | U                | 10000       | 10700     |              | ug/L |   | 107  | 58 - 136     |
| Methylene Chloride          | 470           | J B              | 5000        | 5270      |              | ug/L |   | 96   | 70 - 124     |
| o-Xylene                    | 500           | U                | 5000        | 4510      |              | ug/L |   | 90   | 68 - 121     |
| Styrene                     | 500           | U                | 5000        | 4870      |              | ug/L |   | 97   | 64 - 126     |
| Tetrachloroethene           | 500           | U                | 5000        | 4380      |              | ug/L |   | 88   | 59 - 125     |
| Toluene                     | 500           | U                | 5000        | 4920      |              | ug/L |   | 98   | 72 - 122     |
| trans-1,2-Dichloroethene    | 230           | J                | 5000        | 5250      |              | ug/L |   | 100  | 72 - 125     |
| trans-1,3-Dichloropropene   | 500           | U                | 5000        | 4830      |              | ug/L |   | 97   | 58 - 132     |
| Trichloroethene             | 800           |                  | 5000        | 5530      |              | ug/L |   | 95   | 61 - 129     |
| Vinyl chloride              | 530           |                  | 5000        | 5470      |              | ug/L |   | 99   | 44 - 122     |
| Xylenes, Total              | 1000          | U                | 10000       | 9010      |              | ug/L |   | 90   | 67 - 122     |
| Chlorodibromomethane        | 500           | U                | 5000        | 5190      |              | ug/L |   | 104  | 62 - 122     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 80           |              | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 88           |              | 61 - 120 |
| Toluene-d8 (Surr)            | 92           |              | 80 - 120 |
| Dibromofluoromethane (Surr)  | 87           |              | 79 - 120 |

Lab Sample ID: 240-63934-1 MSD

Matrix: Water

Analysis Batch: 228666

Client Sample ID: GW-042216-SM-022

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-Trichloroethane     | 500           | U                | 5000        | 4150       |               | ug/L |   | 83   | 69 - 122     | 4   | 14        |
| 1,1,2,2-Tetrachloroethane | 500           | U                | 5000        | 5360       |               | ug/L |   | 107  | 61 - 130     | 0   | 18        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

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

Lab Sample ID: 240-63934-1 MSD

Client Sample ID: GW-042216-SM-022

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 228666

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,2-Trichloroethane       | 500           | U                | 5000        | 5600       |               | ug/L |   | 112  | 72 - 125     | 2   | 19        |
| 1,1-Dichloroethane          | 290           | J                | 5000        | 4990       |               | ug/L |   | 94   | 73 - 124     | 5   | 14        |
| 1,1-Dichloroethene          | 500           | U                | 5000        | 4930       |               | ug/L |   | 99   | 67 - 124     | 6   | 24        |
| 1,2-Dichloroethane          | 500           | U                | 5000        | 4590       |               | ug/L |   | 92   | 74 - 125     | 8   | 24        |
| 1,2-Dichloropropane         | 500           | U                | 5000        | 5200       |               | ug/L |   | 104  | 73 - 122     | 5   | 15        |
| 2-Hexanone                  | 5000          | U                | 10000       | 10100      |               | ug/L |   | 101  | 49 - 142     | 1   | 27        |
| Acetone                     | 5000          | U                | 10000       | 7420       |               | ug/L |   | 74   | 32 - 126     | 1   | 28        |
| Benzene                     | 500           | U                | 5000        | 4940       |               | ug/L |   | 99   | 73 - 121     | 6   | 13        |
| Bromoform                   | 500           | U                | 5000        | 5220       |               | ug/L |   | 104  | 45 - 121     | 0   | 19        |
| Bromomethane                | 500           | U                | 5000        | 1690       |               | ug/L |   | 34   | 26 - 136     | 26  | 35        |
| Carbon disulfide            | 500           | U                | 5000        | 4450       |               | ug/L |   | 89   | 54 - 144     | 6   | 34        |
| Carbon tetrachloride        | 500           | U                | 5000        | 4460       |               | ug/L |   | 89   | 65 - 129     | 5   | 20        |
| Chlorobenzene               | 500           | U                | 5000        | 4740       |               | ug/L |   | 95   | 72 - 120     | 3   | 15        |
| Chloroethane                | 500           | U                | 5000        | 3230       |               | ug/L |   | 65   | 27 - 131     | 15  | 35        |
| Chloroform                  | 500           | U                | 5000        | 4630       |               | ug/L |   | 93   | 73 - 121     | 6   | 17        |
| Chloromethane               | 500           | U                | 5000        | 5060       |               | ug/L |   | 101  | 39 - 134     | 12  | 20        |
| cis-1,2-Dichloroethene      | 9400          |                  | 5000        | 14400      |               | ug/L |   | 101  | 66 - 124     | 1   | 22        |
| cis-1,3-Dichloropropene     | 500           | U                | 5000        | 5070       |               | ug/L |   | 101  | 60 - 120     | 1   | 21        |
| Dichlorobromomethane        | 500           | U                | 5000        | 4780       |               | ug/L |   | 96   | 72 - 120     | 5   | 19        |
| Ethylbenzene                | 500           | U                | 5000        | 4580       |               | ug/L |   | 92   | 68 - 121     | 1   | 16        |
| m-Xylene & p-Xylene         | 1000          | U                | 5000        | 4700       |               | ug/L |   | 94   | 66 - 123     | 4   | 15        |
| 2-Butanone (MEK)            | 5000          | U                | 10000       | 9250       |               | ug/L |   | 93   | 49 - 132     | 3   | 19        |
| 4-Methyl-2-pentanone (MIBK) | 5000          | U                | 10000       | 9950       |               | ug/L |   | 100  | 58 - 136     | 7   | 32        |
| Methylene Chloride          | 470           | J B              | 5000        | 4970       |               | ug/L |   | 90   | 70 - 124     | 6   | 14        |
| o-Xylene                    | 500           | U                | 5000        | 4570       |               | ug/L |   | 91   | 68 - 121     | 1   | 14        |
| Styrene                     | 500           | U                | 5000        | 4800       |               | ug/L |   | 96   | 64 - 126     | 1   | 15        |
| Tetrachloroethene           | 500           | U                | 5000        | 4450       |               | ug/L |   | 89   | 59 - 125     | 2   | 20        |
| Toluene                     | 500           | U                | 5000        | 4920       |               | ug/L |   | 98   | 72 - 122     | 0   | 15        |
| trans-1,2-Dichloroethene    | 230           | J                | 5000        | 5120       |               | ug/L |   | 98   | 72 - 125     | 3   | 25        |
| trans-1,3-Dichloropropene   | 500           | U                | 5000        | 4890       |               | ug/L |   | 98   | 58 - 132     | 1   | 22        |
| Trichloroethene             | 800           |                  | 5000        | 5430       |               | ug/L |   | 93   | 61 - 129     | 2   | 14        |
| Vinyl chloride              | 530           |                  | 5000        | 5370       |               | ug/L |   | 97   | 44 - 122     | 2   | 35        |
| Xylenes, Total              | 1000          | U                | 10000       | 9270       |               | ug/L |   | 93   | 67 - 122     | 3   | 14        |
| Chlorodibromomethane        | 500           | U                | 5000        | 5110       |               | ug/L |   | 102  | 62 - 122     | 1   | 19        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 77            | X             | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 87            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 93            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 85            |               | 79 - 120 |

TestAmerica Canton

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

### GC/MS VOA

#### Analysis Batch: 228666

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-63934-1       | GW-042216-SM-022   | Total/NA  | Water  | 8260B  |            |
| 240-63934-1 MS    | GW-042216-SM-022   | Total/NA  | Water  | 8260B  |            |
| 240-63934-1 MSD   | GW-042216-SM-022   | Total/NA  | Water  | 8260B  |            |
| 240-63934-2       | GW-042216-SM-023   | Total/NA  | Water  | 8260B  |            |
| 240-63934-3       | GW-042216-SM-024   | Total/NA  | Water  | 8260B  |            |
| 240-63934-4       | RB-042216-SM-003   | Total/NA  | Water  | 8260B  |            |
| 240-63934-5       | SW-042216-SM-001   | Total/NA  | Water  | 8260B  |            |
| 240-63934-6       | SW-042216-SM-002   | Total/NA  | Water  | 8260B  |            |
| 240-63934-7       | TB-042216-SM-002   | Total/NA  | Water  | 8260B  |            |
| LCS 240-228666/30 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 240-228666/6   | Method Blank       | Total/NA  | Water  | 8260B  |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

**Client Sample ID: GW-042216-SM-022**

**Date Collected: 04/22/16 08:57**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 500             | 228666       | 05/03/16 22:59       | RJQ     | TAL CAN |

**Client Sample ID: GW-042216-SM-023**

**Date Collected: 04/22/16 09:47**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 500             | 228666       | 05/03/16 23:22       | RJQ     | TAL CAN |

**Client Sample ID: GW-042216-SM-024**

**Date Collected: 04/22/16 09:50**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 500             | 228666       | 05/03/16 23:45       | RJQ     | TAL CAN |

**Client Sample ID: RB-042216-SM-003**

**Date Collected: 04/22/16 09:00**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228666       | 05/04/16 00:07       | RJQ     | TAL CAN |

**Client Sample ID: SW-042216-SM-001**

**Date Collected: 04/22/16 09:20**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 228666       | 05/04/16 00:30       | RJQ     | TAL CAN |

**Client Sample ID: SW-042216-SM-002**

**Date Collected: 04/22/16 09:23**

**Date Received: 04/26/16 07:55**

**Lab Sample ID: 240-63934-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2.5             | 228666       | 05/04/16 00:53       | RJQ     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

**Client Sample ID: TB-042216-SM-002**

**Lab Sample ID: 240-63934-7**

**Date Collected: 04/22/16 10:00**

**Matrix: Water**

**Date Received: 04/26/16 07:55**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 228666       | 05/04/16 01:15       | RJQ     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-63934-1

## Laboratory: TestAmerica Canton

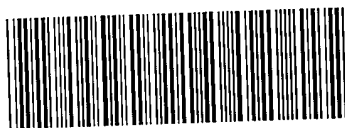
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California        | State Program | 9          | 2927             | 04-30-17        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-17        |
| Florida           | NELAP         | 4          | E87225           | 06-30-16 *      |
| Illinois          | NELAP         | 5          | 200004           | 07-31-16 *      |
| Kansas            | NELAP         | 7          | E-10336          | 07-31-16 *      |
| Kentucky (UST)    | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)     | State Program | 4          | 98016            | 12-31-16        |
| L-A-B             | DoD ELAP      |            | L2315            | 07-18-16        |
| Minnesota         | NELAP         | 5          | 039-999-348      | 12-31-16        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-16 *      |
| New Jersey        | NELAP         | 2          | OH001            | 06-30-16 *      |
| New York          | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP          | State Program | 5          | CL0024           | 09-14-17        |
| Oregon            | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania      | NELAP         | 3          | 68-00340         | 08-31-16 *      |
| Texas             | NELAP         | 6          | T104704517-15-5  | 08-31-16 *      |
| USDA              | Federal       |            | P330-13-00319    | 11-26-16        |
| Virginia          | NELAP         | 3          | 460175           | 09-14-16        |
| Washington        | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-16        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-16 *      |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

**CHAIN OF CUSTODY  
AND  
RECEIVING DOCUMENTS**



240-63934 Chain of Custody



3.6/3.1

**CONESTOGA-ROVERS & ASSOCIATES**

# CHAIN OF CUSTODY RECORD

6520 Corporate Drive, Indianapolis, Indiana 46278  
Phone: (317) 291-7007 Fax: (317) 328-2666

COC NO.: IN- 04068  
PAGE 1 OF 1  
(See Reverse Side for Instructions)

|                                           |  |                                   |  |                                                         |  |                                              |  |
|-------------------------------------------|--|-----------------------------------|--|---------------------------------------------------------|--|----------------------------------------------|--|
| Project No/Phase/Task Code:<br>017302-707 |  | Laboratory Name:<br>Test America  |  | Lab Location:<br>North Center                           |  | SSOW ID:<br>017302-707                       |  |
| Project Name:<br>Delphi 1                 |  | Lab Contact:<br>Dorise Heckler    |  | Lab Quote No:                                           |  | Cooler No:                                   |  |
| Project Location:<br>Anderson, IN         |  | CONTAINER QUANTITY & PRESERVATION |  | ANALYSIS REQUESTED<br>(See Back of COC for Definitions) |  |                                              |  |
| Chemistry Contact:<br>Deb Andrusko        |  | SAMPLE TYPE                       |  | Total Containers/Sample                                 |  |                                              |  |
| Sampler(s):<br>Sam Melcosky               |  | Matrix Code<br>(see back of COC)  |  | MS/MSD Request                                          |  |                                              |  |
| Item                                      |  | DATE<br>(mm/dd/yy)                |  | TIME<br>(hh:mm)                                         |  | Carrier:<br>Fedex                            |  |
| 1                                         |  | 07/23/16                          |  | 8:57                                                    |  | Airbill No:<br>808 4551 8267                 |  |
| 2                                         |  | 07/23/16                          |  | 9:47                                                    |  | Date Shipped:<br>4/5/16                      |  |
| 3                                         |  | 07/23/16                          |  | 9:50                                                    |  | COMMENTS/<br>SPECIAL INSTRUCTIONS:<br>MS/MSD |  |
| 4                                         |  | 07/23/16                          |  | 9:00                                                    |  |                                              |  |
| 5                                         |  | 07/23/16                          |  | 9:20                                                    |  |                                              |  |
| 6                                         |  | 07/23/16                          |  | 9:23                                                    |  |                                              |  |
| 7                                         |  | 07/23/16                          |  | 10:00                                                   |  |                                              |  |
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| 249                                       |  |                                   |  |                                                         |  |                                              |  |
| 250                                       |  |                                   |  |                                                         |  |                                              |  |
| 251                                       |  |                                   |  |                                                         |  |                                              |  |
| 252                                       |  |                                   |  |                                                         |  |                                              |  |
| 253                                       |  |                                   |  |                                                         |  |                                              |  |
| 254                                       |  |                                   |  |                                                         |  |                                              |  |
| 255                                       |  |                                   |  |                                                         |  |                                              |  |
| 256                                       |  |                                   |  |                                                         |  |                                              |  |
| 257                                       |  |                                   |  |                                                         |  |                                              |  |
| 258                                       |  |                                   |  |                                                         |  |                                              |  |
| 259                                       |  |                                   |  |                                                         |  |                                              |  |
| 260                                       |  |                                   |  |                                                         |  |                                              |  |
| 261                                       |  |                                   |  |                                                         |  |                                              |  |
| 262                                       |  |                                   |  |                                                         |  |                                              |  |
| 263                                       |  |                                   |  |                                                         |  |                                              |  |
| 264                                       |  |                                   |  |                                                         |  |                                              |  |
| 265                                       |  |                                   |  |                                                         |  |                                              |  |
| 266                                       |  |                                   |  |                                                         |  |                                              |  |
| 267                                       |  |                                   |  |                                                         |  |                                              |  |
| 268                                       |  |                                   |  |                                                         |  |                                              |  |
| 269                                       |  |                                   |  |                                                         |  |                                              |  |
| 270                                       |  |                                   |  |                                                         |  |                                              |  |
| 271                                       |  |                                   |  |                                                         |  |                                              |  |
| 272                                       |  |                                   |  |                                                         |  |                                              |  |
| 273                                       |  |                                   |  |                                                         |  |                                              |  |
| 274                                       |  |                                   |  |                                                         |  |                                              |  |
| 275                                       |  |                                   |  |                                                         |  |                                              |  |
| 276                                       |  |                                   |  |                                                         |  |                                              |  |
| 277                                       |  |                                   |  |                                                         |  |                                              |  |
| 278                                       |  |                                   |  |                                                         |  |                                              |  |
| 279                                       |  |                                   |  |                                                         |  |                                              |  |
| 280                                       |  |                                   |  |                                                         |  |                                              |  |
| 281                                       |  |                                   |  |                                                         |  |                                              |  |
| 282                                       |  |                                   |  |                                                         |  |                                              |  |
| 283                                       |  |                                   |  |                                                         |  |                                              |  |
| 284                                       |  |                                   |  |                                                         |  |                                              |  |
| 285                                       |  |                                   |  |                                                         |  |                                              |  |
| 286                                       |  |                                   |  |                                                         |  |                                              |  |
| 287                                       |  |                                   |  |                                                         |  |                                              |  |
| 288                                       |  |                                   |  |                                                         |  |                                              |  |
| 289                                       |  |                                   |  |                                                         |  |                                              |  |
| 290                                       |  |                                   |  |                                                         |  |                                              |  |
| 291                                       |  |                                   |  |                                                         |  |                                              |  |
| 292                                       |  |                                   |  |                                                         |  |                                              |  |
| 293                                       |  |                                   |  |                                                         |  |                                              |  |
| 294                                       |  |                                   |  |                                                         |  |                                              |  |
| 295                                       |  |                                   |  |                                                         |  |                                              |  |
| 296                                       |  |                                   |  |                                                         |  |                                              |  |
| 297                                       |  |                                   |  |                                                         |  |                                              |  |
| 298                                       |  |                                   |  |                                                         |  |                                              |  |
| 299                                       |  |                                   |  |                                                         |  |                                              |  |
| 300                                       |  |                                   |  |                                                         |  |                                              |  |
| 301                                       |  |                                   |  |                                                         |  |                                              |  |
| 302                                       |  |                                   |  |                                                         |  |                                              |  |
| 303                                       |  |                                   |  |                                                         |  |                                              |  |
| 304                                       |  |                                   |  |                                                         |  |                                              |  |
| 305                                       |  |                                   |  |                                                         |  |                                              |  |
| 306                                       |  |                                   |  |                                                         |  |                                              |  |
| 307                                       |  |                                   |  |                                                         |  |                                              |  |
| 308                                       |  |                                   |  |                                                         |  |                                              |  |
| 309                                       |  |                                   |  |                                                         |  |                                              |  |
| 310                                       |  |                                   |  |                                                         |  |                                              |  |
| 311                                       |  |                                   |  |                                                         |  |                                              |  |
| 312                                       |  |                                   |  |                                                         |  |                                              |  |
| 313                                       |  |                                   |  |                                                         |  |                                              |  |
| 314                                       |  |                                   |  |                                                         |  |                                              |  |
| 315                                       |  |                                   |  |                                                         |  |                                              |  |
| 316                                       |  |                                   |  |                                                         |  |                                              |  |
| 317                                       |  |                                   |  |                                                         |  |                                              |  |
| 318                                       |  |                                   |  |                                                         |  |                                              |  |
| 319                                       |  |                                   |  |                                                         |  |                                              |  |
| 320                                       |  |                                   |  |                                                         |  |                                              |  |
| 321                                       |  |                                   |  |                                                         |  |                                              |  |
| 322                                       |  |                                   |  |                                                         |  |                                              |  |
| 323                                       |  |                                   |  |                                                         |  |                                              |  |
| 324                                       |  |                                   |  |                                                         |  |                                              |  |



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-67397-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

7/29/2016 9:40:32 AM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                           |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E         | Result exceeded calibration range.                                                                             |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |



## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

**Job ID: 240-67397-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-67397-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/20/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

#### GC/MS VOA

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.

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-67397-1   | SW-071916-TP-001 | Water  | 07/19/16 09:45 | 07/20/16 09:30 |
| 240-67397-2   | SW-071916-TP-002 | Water  | 07/19/16 09:55 | 07/20/16 09:30 |
| 240-67397-3   | SW-071916-TP-003 | Water  | 07/19/16 10:00 | 07/20/16 09:30 |
| 240-67397-4   | TB-071916-TP-001 | Water  | 07/19/16 10:10 | 07/20/16 09:30 |

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

### Client Sample ID: SW-071916-TP-001

### Lab Sample ID: 240-67397-1

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 2.8    |           | 1.7 | 0.50 | ug/L | 1.67    |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 55     |           | 1.7 | 0.43 | ug/L | 1.67    |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 1.6    | J         | 1.7 | 0.50 | ug/L | 1.67    |   | 8260B  | Total/NA  |
| Vinyl chloride           | 4.9    |           | 1.7 | 0.48 | ug/L | 1.67    |   | 8260B  | Total/NA  |

### Client Sample ID: SW-071916-TP-002

### Lab Sample ID: 240-67397-2

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 4.5    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 90     |           | 2.5 | 0.65 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 3.0    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 6.4    |           | 2.5 | 0.73 | ug/L | 2.5     |   | 8260B  | Total/NA  |

### Client Sample ID: SW-071916-TP-003

### Lab Sample ID: 240-67397-3

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 4.1    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 81     |           | 2.5 | 0.65 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 2.7    |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 6.2    |           | 2.5 | 0.73 | ug/L | 2.5     |   | 8260B  | Total/NA  |

### Client Sample ID: TB-071916-TP-001

### Lab Sample ID: 240-67397-4

| Analyte | Result | Qualifier | RL | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|------|------|---------|---|--------|-----------|
| Acetone | 5.0    | J         | 10 | 0.94 | ug/L | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Client Sample ID: SW-071916-TP-001

Date Collected: 07/19/16 09:45

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-1

Matrix: Water

| Analyte                         | Result       | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|--------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane           | 1.7          | U         | 1.7 | 0.73 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 1,1,2,2-Tetrachloroethane       | 1.7          | U         | 1.7 | 0.37 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 1,1,2-Trichloroethane           | 1.7          | U         | 1.7 | 0.40 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| <b>1,1-Dichloroethane</b>       | <b>2.8</b>   |           | 1.7 | 0.50 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 1,1-Dichloroethene              | 1.7          | U         | 1.7 | 0.75 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 1,2-Dichloroethane              | 1.7          | U         | 1.7 | 0.38 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 1,2-Dichloropropane             | 1.7          | U         | 1.7 | 0.42 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 2-Hexanone                      | 17           | U         | 17  | 0.80 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Acetone                         | 17           | U         | 17  | 1.6  | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Benzene                         | 1.7          | U         | 1.7 | 0.58 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Bromoform                       | 1.7          | U         | 1.7 | 0.94 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Bromomethane                    | 1.7          | U         | 1.7 | 0.73 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Carbon disulfide                | 1.7          | U         | 1.7 | 0.63 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Carbon tetrachloride            | 1.7          | U         | 1.7 | 0.72 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Chlorobenzene                   | 1.7          | U         | 1.7 | 0.42 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Chloroethane                    | 1.7          | U F1      | 1.7 | 0.53 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Chloroform                      | 1.7          | U         | 1.7 | 0.42 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Chloromethane                   | 1.7          | U         | 1.7 | 0.73 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| <b>cis-1,2-Dichloroethene</b>   | <b>55</b>    |           | 1.7 | 0.43 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| cis-1,3-Dichloropropene         | 1.7          | U         | 1.7 | 0.77 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Dichlorobromomethane            | 1.7          | U         | 1.7 | 0.48 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Ethylbenzene                    | 1.7          | U         | 1.7 | 0.42 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 2-Butanone (MEK)                | 17           | U         | 17  | 0.89 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| 4-Methyl-2-pentanone (MIBK)     | 17           | U         | 17  | 1.7  | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Methylene Chloride              | 1.7          | U         | 1.7 | 0.55 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Styrene                         | 1.7          | U         | 1.7 | 0.75 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Tetrachloroethene               | 1.7          | U         | 1.7 | 0.52 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Toluene                         | 1.7          | U         | 1.7 | 0.38 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| <b>trans-1,2-Dichloroethene</b> | <b>1.6 J</b> |           | 1.7 | 0.50 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| trans-1,3-Dichloropropene       | 1.7          | U         | 1.7 | 0.94 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Trichloroethene                 | 1.7          | U         | 1.7 | 0.37 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| <b>Vinyl chloride</b>           | <b>4.9</b>   |           | 1.7 | 0.48 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Xylenes, Total                  | 3.3          | U         | 3.3 | 0.87 | ug/L |   |          | 07/27/16 15:24 | 1.67    |
| Chlorodibromomethane            | 1.7          | U         | 1.7 | 0.72 | ug/L |   |          | 07/27/16 15:24 | 1.67    |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 78 - 125 |          | 07/27/16 15:24 | 1.67    |
| 4-Bromofluorobenzene (Surr)  | 96        |           | 61 - 120 |          | 07/27/16 15:24 | 1.67    |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |          | 07/27/16 15:24 | 1.67    |
| Dibromofluoromethane (Surr)  | 102       |           | 79 - 120 |          | 07/27/16 15:24 | 1.67    |

Client Sample ID: SW-071916-TP-002

Date Collected: 07/19/16 09:55

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-2

Matrix: Water

| Analyte                   | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 2.5        | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 1,1,2,2-Tetrachloroethane | 2.5        | U         | 2.5 | 0.55 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 1,1,2-Trichloroethane     | 2.5        | U         | 2.5 | 0.60 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| <b>1,1-Dichloroethane</b> | <b>4.5</b> |           | 2.5 | 0.75 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 1,1-Dichloroethene        | 2.5        | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Client Sample ID: SW-071916-TP-002

Date Collected: 07/19/16 09:55

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 2.5       | U         | 2.5      | 0.58 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 1,2-Dichloropropane          | 2.5       | U         | 2.5      | 0.63 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 2-Hexanone                   | 25        | U         | 25       | 1.2  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Acetone                      | 25        | U         | 25       | 2.4  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Benzene                      | 2.5       | U         | 2.5      | 0.88 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Bromoform                    | 2.5       | U         | 2.5      | 1.4  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Bromomethane                 | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Carbon disulfide             | 2.5       | U         | 2.5      | 0.95 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Carbon tetrachloride         | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Chlorobenzene                | 2.5       | U         | 2.5      | 0.63 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Chloroethane                 | 2.5       | U         | 2.5      | 0.80 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Chloroform                   | 2.5       | U         | 2.5      | 0.63 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Chloromethane                | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| cis-1,2-Dichloroethene       | 90        |           | 2.5      | 0.65 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| cis-1,3-Dichloropropene      | 2.5       | U         | 2.5      | 1.2  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Dichlorobromomethane         | 2.5       | U         | 2.5      | 0.73 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Ethylbenzene                 | 2.5       | U         | 2.5      | 0.63 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 2-Butanone (MEK)             | 25        | U         | 25       | 1.3  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| 4-Methyl-2-pentanone (MIBK)  | 25        | U         | 25       | 2.5  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Methylene Chloride           | 2.5       | U         | 2.5      | 0.83 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Styrene                      | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Tetrachloroethene            | 2.5       | U         | 2.5      | 0.78 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Toluene                      | 2.5       | U         | 2.5      | 0.58 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| trans-1,2-Dichloroethene     | 3.0       |           | 2.5      | 0.75 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| trans-1,3-Dichloropropene    | 2.5       | U         | 2.5      | 1.4  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Trichloroethene              | 2.5       | U         | 2.5      | 0.55 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Vinyl chloride               | 6.4       |           | 2.5      | 0.73 | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Xylenes, Total               | 5.0       | U         | 5.0      | 1.3  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Chlorodibromomethane         | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 07/27/16 15:46 | 2.5     |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 78 - 125 |      |      |   |          | 07/27/16 15:46 | 2.5     |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 61 - 120 |      |      |   |          | 07/27/16 15:46 | 2.5     |
| Toluene-d8 (Surr)            | 95        |           | 80 - 120 |      |      |   |          | 07/27/16 15:46 | 2.5     |
| Dibromofluoromethane (Surr)  | 100       |           | 79 - 120 |      |      |   |          | 07/27/16 15:46 | 2.5     |

Client Sample ID: SW-071916-TP-003

Date Collected: 07/19/16 10:00

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,1,1,2-Tetrachloroethane | 2.5    | U         | 2.5 | 0.55 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,1,2-Trichloroethane     | 2.5    | U         | 2.5 | 0.60 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,1-Dichloroethane        | 4.1    |           | 2.5 | 0.75 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,1-Dichloroethene        | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,2-Dichloroethane        | 2.5    | U         | 2.5 | 0.58 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 1,2-Dichloropropane       | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 2-Hexanone                | 25     | U         | 25  | 1.2  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Acetone                   | 25     | U         | 25  | 2.4  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Benzene                   | 2.5    | U         | 2.5 | 0.88 | ug/L |   |          | 07/27/16 16:09 | 2.5     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Client Sample ID: SW-071916-TP-003

Date Collected: 07/19/16 10:00

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromoform                   | 2.5    | U         | 2.5 | 1.4  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Bromomethane                | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Carbon disulfide            | 2.5    | U         | 2.5 | 0.95 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Carbon tetrachloride        | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Chlorobenzene               | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Chloroethane                | 2.5    | U         | 2.5 | 0.80 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Chloroform                  | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Chloromethane               | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| cis-1,2-Dichloroethene      | 81     |           | 2.5 | 0.65 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| cis-1,3-Dichloropropene     | 2.5    | U         | 2.5 | 1.2  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Dichlorobromomethane        | 2.5    | U         | 2.5 | 0.73 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Ethylbenzene                | 2.5    | U         | 2.5 | 0.63 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 2-Butanone (MEK)            | 25     | U         | 25  | 1.3  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| 4-Methyl-2-pentanone (MIBK) | 25     | U         | 25  | 2.5  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Methylene Chloride          | 2.5    | U         | 2.5 | 0.83 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Styrene                     | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Tetrachloroethene           | 2.5    | U         | 2.5 | 0.78 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Toluene                     | 2.5    | U         | 2.5 | 0.58 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| trans-1,2-Dichloroethene    | 2.7    |           | 2.5 | 0.75 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| trans-1,3-Dichloropropene   | 2.5    | U         | 2.5 | 1.4  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Trichloroethene             | 2.5    | U         | 2.5 | 0.55 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Vinyl chloride              | 6.2    |           | 2.5 | 0.73 | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Xylenes, Total              | 5.0    | U         | 5.0 | 1.3  | ug/L |   |          | 07/27/16 16:09 | 2.5     |
| Chlorodibromomethane        | 2.5    | U         | 2.5 | 1.1  | ug/L |   |          | 07/27/16 16:09 | 2.5     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 78 - 125 |          | 07/27/16 16:09 | 2.5     |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 61 - 120 |          | 07/27/16 16:09 | 2.5     |
| Toluene-d8 (Surr)            | 94        |           | 80 - 120 |          | 07/27/16 16:09 | 2.5     |
| Dibromofluoromethane (Surr)  | 100       |           | 79 - 120 |          | 07/27/16 16:09 | 2.5     |

Client Sample ID: TB-071916-TP-001

Date Collected: 07/19/16 10:10

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.24 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 0.48 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Acetone                   | 5.0    | J         | 10  | 0.94 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 07/27/16 16:31 | 1       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Client Sample ID: TB-071916-TP-001

Date Collected: 07/19/16 10:10

Date Received: 07/20/16 09:30

Lab Sample ID: 240-67397-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 07/27/16 16:31 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 07/27/16 16:31 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 0.53 | ug/L |   |          | 07/27/16 16:31 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.99 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 07/27/16 16:31 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 07/27/16 16:31 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.22 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 07/27/16 16:31 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 07/27/16 16:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 78 - 125 |          | 07/27/16 16:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 61 - 120 |          | 07/27/16 16:31 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 80 - 120 |          | 07/27/16 16:31 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 79 - 120 |          | 07/27/16 16:31 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | 12DCE<br>(78-125) | BFB<br>(61-120) | TOL<br>(80-120) | DBFM<br>(79-120) |
|------------------|--------------------|-------------------|-----------------|-----------------|------------------|
| 240-67397-1      | SW-071916-TP-001   | 94                | 96              | 98              | 102              |
| 240-67397-1 MS   | SW-071916-TP-001   | 94                | 97              | 101             | 101              |
| 240-67397-1 MSD  | SW-071916-TP-001   | 89                | 92              | 97              | 97               |
| 240-67397-2      | SW-071916-TP-002   | 93                | 95              | 95              | 100              |
| 240-67397-3      | SW-071916-TP-003   | 90                | 93              | 94              | 100              |
| 240-67397-4      | TB-071916-TP-001   | 93                | 95              | 97              | 100              |
| LCS 240-239976/5 | Lab Control Sample | 92                | 93              | 102             | 98               |
| MB 240-239976/7  | Method Blank       | 95                | 92              | 96              | 99               |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Lab Sample ID: MB 240-239976/7

Matrix: Water

Analysis Batch: 239976

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.24 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 0.48 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Acetone                     | 10        | U            | 10  | 0.94 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 07/27/16 11:15 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 07/27/16 11:15 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 0.53 | ug/L |   |          | 07/27/16 11:15 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.99 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 07/27/16 11:15 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 07/27/16 11:15 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.56 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.22 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.52 | ug/L |   |          | 07/27/16 11:15 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 07/27/16 11:15 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95           |              | 78 - 125 |          | 07/27/16 11:15 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92           |              | 61 - 120 |          | 07/27/16 11:15 | 1       |
| Toluene-d8 (Surr)            | 96           |              | 80 - 120 |          | 07/27/16 11:15 | 1       |
| Dibromofluoromethane (Surr)  | 99           |              | 79 - 120 |          | 07/27/16 11:15 | 1       |

Lab Sample ID: LCS 240-239976/5

Matrix: Water

Analysis Batch: 239976

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-Trichloroethane     | 10.0        | 10.6       |               | ug/L |   | 106  | 77 - 123     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 10.1       |               | ug/L |   | 101  | 71 - 123     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Lab Sample ID: LCS 240-239976/5

Matrix: Water

Analysis Batch: 239976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 9.83       |               | ug/L |   | 98   | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 10.6       |               | ug/L |   | 106  | 79 - 125     |
| 1,1-Dichloroethene          | 10.0        | 11.1       |               | ug/L |   | 111  | 76 - 124     |
| 1,2-Dichloroethane          | 10.0        | 10.0       |               | ug/L |   | 100  | 80 - 120     |
| 1,2-Dichloropropane         | 10.0        | 10.5       |               | ug/L |   | 105  | 78 - 124     |
| 2-Hexanone                  | 20.0        | 17.7       |               | ug/L |   | 89   | 55 - 141     |
| Acetone                     | 20.0        | 17.8       |               | ug/L |   | 89   | 34 - 148     |
| Benzene                     | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| Bromoform                   | 10.0        | 10.5       |               | ug/L |   | 105  | 56 - 122     |
| Bromomethane                | 10.0        | 10.5       |               | ug/L |   | 105  | 38 - 132     |
| Carbon disulfide            | 10.0        | 11.3       |               | ug/L |   | 113  | 65 - 144     |
| Carbon tetrachloride        | 10.0        | 11.3       |               | ug/L |   | 113  | 77 - 131     |
| Chlorobenzene               | 10.0        | 10.3       |               | ug/L |   | 103  | 80 - 120     |
| Chloroethane                | 10.0        | 11.1       |               | ug/L |   | 111  | 36 - 126     |
| Chloroform                  | 10.0        | 10.5       |               | ug/L |   | 105  | 80 - 120     |
| Chloromethane               | 10.0        | 9.97       |               | ug/L |   | 100  | 48 - 133     |
| cis-1,2-Dichloroethene      | 10.0        | 10.6       |               | ug/L |   | 106  | 79 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 10.7       |               | ug/L |   | 107  | 74 - 126     |
| Dichlorobromomethane        | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| Ethylbenzene                | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 10.5       |               | ug/L |   | 105  | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 17.8       |               | ug/L |   | 89   | 56 - 138     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 18.4       |               | ug/L |   | 92   | 64 - 135     |
| Methylene Chloride          | 10.0        | 10.4       |               | ug/L |   | 104  | 77 - 129     |
| o-Xylene                    | 10.0        | 10.6       |               | ug/L |   | 106  | 80 - 120     |
| Styrene                     | 10.0        | 10.5       |               | ug/L |   | 105  | 76 - 122     |
| Tetrachloroethene           | 10.0        | 10.4       |               | ug/L |   | 104  | 78 - 121     |
| Toluene                     | 10.0        | 10.7       |               | ug/L |   | 107  | 80 - 120     |
| trans-1,2-Dichloroethene    | 10.0        | 11.1       |               | ug/L |   | 111  | 80 - 124     |
| trans-1,3-Dichloropropene   | 10.0        | 10.1       |               | ug/L |   | 101  | 75 - 131     |
| Trichloroethene             | 10.0        | 10.8       |               | ug/L |   | 108  | 80 - 121     |
| Vinyl chloride              | 10.0        | 10.5       |               | ug/L |   | 105  | 52 - 121     |
| Xylenes, Total              | 20.0        | 21.1       |               | ug/L |   | 106  | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 10.4       |               | ug/L |   | 104  | 74 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 92            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 93            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 102           |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 98            |               | 79 - 120 |

Lab Sample ID: 240-67397-1 MS

Matrix: Water

Analysis Batch: 239976

Client Sample ID: SW-071916-TP-001

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 1.7           | U                | 16.7        | 18.1      |              | ug/L |   | 108  | 69 - 122     |
| 1,1,2,2-Tetrachloroethane | 1.7           | U                | 16.7        | 15.2      |              | ug/L |   | 91   | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Lab Sample ID: 240-67397-1 MS

Matrix: Water

Analysis Batch: 239976

Client Sample ID: SW-071916-TP-001

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 1.7           | U                | 16.7        | 14.6      |              | ug/L |   | 88   | 72 - 125     |
| 1,1-Dichloroethane          | 2.8           |                  | 16.7        | 20.0      |              | ug/L |   | 103  | 73 - 124     |
| 1,1-Dichloroethene          | 1.7           | U                | 16.7        | 18.3      |              | ug/L |   | 109  | 67 - 124     |
| 1,2-Dichloroethane          | 1.7           | U                | 16.7        | 15.8      |              | ug/L |   | 94   | 74 - 125     |
| 1,2-Dichloropropane         | 1.7           | U                | 16.7        | 16.2      |              | ug/L |   | 97   | 73 - 122     |
| 2-Hexanone                  | 17            | U                | 33.4        | 24.9      |              | ug/L |   | 75   | 49 - 142     |
| Acetone                     | 17            | U                | 33.4        | 25.7      |              | ug/L |   | 77   | 32 - 126     |
| Benzene                     | 1.7           | U                | 16.7        | 16.5      |              | ug/L |   | 99   | 73 - 121     |
| Bromoform                   | 1.7           | U                | 16.7        | 14.7      |              | ug/L |   | 88   | 45 - 121     |
| Bromomethane                | 1.7           | U                | 16.7        | 22.7      |              | ug/L |   | 136  | 26 - 136     |
| Carbon disulfide            | 1.7           | U                | 16.7        | 18.9      |              | ug/L |   | 113  | 54 - 144     |
| Carbon tetrachloride        | 1.7           | U                | 16.7        | 18.6      |              | ug/L |   | 111  | 65 - 129     |
| Chlorobenzene               | 1.7           | U                | 16.7        | 15.9      |              | ug/L |   | 95   | 72 - 120     |
| Chloroethane                | 1.7           | U F1             | 16.7        | 28.3      | F1           | ug/L |   | 169  | 27 - 131     |
| Chloroform                  | 1.7           | U                | 16.7        | 17.2      |              | ug/L |   | 103  | 73 - 121     |
| Chloromethane               | 1.7           | U                | 16.7        | 18.1      |              | ug/L |   | 109  | 39 - 134     |
| cis-1,2-Dichloroethene      | 55            |                  | 16.7        | 69.6      | E            | ug/L |   | 85   | 66 - 124     |
| cis-1,3-Dichloropropene     | 1.7           | U                | 16.7        | 16.4      |              | ug/L |   | 98   | 60 - 120     |
| Dichlorobromomethane        | 1.7           | U                | 16.7        | 15.8      |              | ug/L |   | 95   | 72 - 120     |
| Ethylbenzene                | 1.7           | U                | 16.7        | 16.5      |              | ug/L |   | 99   | 68 - 121     |
| m-Xylene & p-Xylene         | 3.3           | U                | 16.7        | 16.3      |              | ug/L |   | 98   | 66 - 123     |
| 2-Butanone (MEK)            | 17            | U                | 33.4        | 25.6      |              | ug/L |   | 77   | 49 - 132     |
| 4-Methyl-2-pentanone (MIBK) | 17            | U                | 33.4        | 28.6      |              | ug/L |   | 86   | 58 - 136     |
| Methylene Chloride          | 1.7           | U                | 16.7        | 17.5      |              | ug/L |   | 105  | 70 - 124     |
| o-Xylene                    | 1.7           | U                | 16.7        | 16.3      |              | ug/L |   | 97   | 68 - 121     |
| Styrene                     | 1.7           | U                | 16.7        | 16.1      |              | ug/L |   | 96   | 64 - 126     |
| Tetrachloroethene           | 1.7           | U                | 16.7        | 15.4      |              | ug/L |   | 93   | 59 - 125     |
| Toluene                     | 1.7           | U                | 16.7        | 15.9      |              | ug/L |   | 95   | 72 - 122     |
| trans-1,2-Dichloroethene    | 1.6           | J                | 16.7        | 19.9      |              | ug/L |   | 110  | 72 - 125     |
| trans-1,3-Dichloropropene   | 1.7           | U                | 16.7        | 14.3      |              | ug/L |   | 85   | 58 - 132     |
| Trichloroethene             | 1.7           | U                | 16.7        | 16.6      |              | ug/L |   | 99   | 61 - 129     |
| Vinyl chloride              | 4.9           |                  | 16.7        | 22.9      |              | ug/L |   | 108  | 44 - 122     |
| Xylenes, Total              | 3.3           | U                | 33.4        | 32.6      |              | ug/L |   | 98   | 67 - 122     |
| Chlorodibromomethane        | 1.7           | U                | 16.7        | 15.1      |              | ug/L |   | 90   | 62 - 122     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94           |              | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 97           |              | 61 - 120 |
| Toluene-d8 (Surr)            | 101          |              | 80 - 120 |
| Dibromofluoromethane (Surr)  | 101          |              | 79 - 120 |

Lab Sample ID: 240-67397-1 MSD

Matrix: Water

Analysis Batch: 239976

Client Sample ID: SW-071916-TP-001

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-Trichloroethane     | 1.7           | U                | 16.7        | 18.1       |               | ug/L |   | 109  | 69 - 122     | 0   | 14        |
| 1,1,2,2-Tetrachloroethane | 1.7           | U                | 16.7        | 15.2       |               | ug/L |   | 91   | 61 - 130     | 0   | 18        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

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

Lab Sample ID: 240-67397-1 MSD

Matrix: Water

Analysis Batch: 239976

Client Sample ID: SW-071916-TP-001

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,2-Trichloroethane       | 1.7           | U                | 16.7        | 15.0       |               | ug/L |   | 90   | 72 - 125     | 2   | 19        |
| 1,1-Dichloroethane          | 2.8           |                  | 16.7        | 20.0       |               | ug/L |   | 103  | 73 - 124     | 0   | 14        |
| 1,1-Dichloroethene          | 1.7           | U                | 16.7        | 18.5       |               | ug/L |   | 111  | 67 - 124     | 1   | 24        |
| 1,2-Dichloroethane          | 1.7           | U                | 16.7        | 15.9       |               | ug/L |   | 95   | 74 - 125     | 1   | 24        |
| 1,2-Dichloropropane         | 1.7           | U                | 16.7        | 16.5       |               | ug/L |   | 99   | 73 - 122     | 2   | 15        |
| 2-Hexanone                  | 17            | U                | 33.4        | 25.7       |               | ug/L |   | 77   | 49 - 142     | 3   | 27        |
| Acetone                     | 17            | U                | 33.4        | 26.2       |               | ug/L |   | 79   | 32 - 126     | 2   | 28        |
| Benzene                     | 1.7           | U                | 16.7        | 16.8       |               | ug/L |   | 101  | 73 - 121     | 2   | 13        |
| Bromoform                   | 1.7           | U                | 16.7        | 15.1       |               | ug/L |   | 90   | 45 - 121     | 2   | 19        |
| Bromomethane                | 1.7           | U                | 16.7        | 20.5       |               | ug/L |   | 123  | 26 - 136     | 10  | 35        |
| Carbon disulfide            | 1.7           | U                | 16.7        | 18.9       |               | ug/L |   | 113  | 54 - 144     | 0   | 34        |
| Carbon tetrachloride        | 1.7           | U                | 16.7        | 18.4       |               | ug/L |   | 110  | 65 - 129     | 1   | 20        |
| Chlorobenzene               | 1.7           | U                | 16.7        | 16.2       |               | ug/L |   | 97   | 72 - 120     | 2   | 15        |
| Chloroethane                | 1.7           | U F1             | 16.7        | 23.8       | F1            | ug/L |   | 143  | 27 - 131     | 17  | 35        |
| Chloroform                  | 1.7           | U                | 16.7        | 17.1       |               | ug/L |   | 102  | 73 - 121     | 1   | 17        |
| Chloromethane               | 1.7           | U                | 16.7        | 17.0       |               | ug/L |   | 102  | 39 - 134     | 6   | 20        |
| cis-1,2-Dichloroethene      | 55            |                  | 16.7        | 68.6       | E             | ug/L |   | 78   | 66 - 124     | 2   | 22        |
| cis-1,3-Dichloropropene     | 1.7           | U                | 16.7        | 16.4       |               | ug/L |   | 98   | 60 - 120     | 0   | 21        |
| Dichlorobromomethane        | 1.7           | U                | 16.7        | 16.3       |               | ug/L |   | 98   | 72 - 120     | 3   | 19        |
| Ethylbenzene                | 1.7           | U                | 16.7        | 16.8       |               | ug/L |   | 100  | 68 - 121     | 2   | 16        |
| m-Xylene & p-Xylene         | 3.3           | U                | 16.7        | 17.2       |               | ug/L |   | 103  | 66 - 123     | 5   | 15        |
| 2-Butanone (MEK)            | 17            | U                | 33.4        | 26.6       |               | ug/L |   | 80   | 49 - 132     | 4   | 19        |
| 4-Methyl-2-pentanone (MIBK) | 17            | U                | 33.4        | 27.6       |               | ug/L |   | 83   | 58 - 136     | 4   | 32        |
| Methylene Chloride          | 1.7           | U                | 16.7        | 17.4       |               | ug/L |   | 104  | 70 - 124     | 0   | 14        |
| o-Xylene                    | 1.7           | U                | 16.7        | 16.5       |               | ug/L |   | 99   | 68 - 121     | 1   | 14        |
| Styrene                     | 1.7           | U                | 16.7        | 16.2       |               | ug/L |   | 97   | 64 - 126     | 0   | 15        |
| Tetrachloroethene           | 1.7           | U                | 16.7        | 15.9       |               | ug/L |   | 95   | 59 - 125     | 3   | 20        |
| Toluene                     | 1.7           | U                | 16.7        | 16.2       |               | ug/L |   | 97   | 72 - 122     | 2   | 15        |
| trans-1,2-Dichloroethene    | 1.6           | J                | 16.7        | 20.0       |               | ug/L |   | 110  | 72 - 125     | 0   | 25        |
| trans-1,3-Dichloropropene   | 1.7           | U                | 16.7        | 14.9       |               | ug/L |   | 89   | 58 - 132     | 4   | 22        |
| Trichloroethene             | 1.7           | U                | 16.7        | 16.7       |               | ug/L |   | 100  | 61 - 129     | 1   | 14        |
| Vinyl chloride              | 4.9           |                  | 16.7        | 22.3       |               | ug/L |   | 104  | 44 - 122     | 3   | 35        |
| Xylenes, Total              | 3.3           | U                | 33.4        | 33.7       |               | ug/L |   | 101  | 67 - 122     | 3   | 14        |
| Chlorodibromomethane        | 1.7           | U                | 16.7        | 15.6       |               | ug/L |   | 93   | 62 - 122     | 3   | 19        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 89            |               | 78 - 125 |
| 4-Bromofluorobenzene (Surr)  | 92            |               | 61 - 120 |
| Toluene-d8 (Surr)            | 97            |               | 80 - 120 |
| Dibromofluoromethane (Surr)  | 97            |               | 79 - 120 |

TestAmerica Canton

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

### GC/MS VOA

#### Analysis Batch: 239976

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-67397-1      | SW-071916-TP-001   | Total/NA  | Water  | 8260B  |            |
| 240-67397-2      | SW-071916-TP-002   | Total/NA  | Water  | 8260B  |            |
| 240-67397-3      | SW-071916-TP-003   | Total/NA  | Water  | 8260B  |            |
| 240-67397-4      | TB-071916-TP-001   | Total/NA  | Water  | 8260B  |            |
| MB 240-239976/7  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-239976/5 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| 240-67397-1 MS   | SW-071916-TP-001   | Total/NA  | Water  | 8260B  |            |
| 240-67397-1 MSD  | SW-071916-TP-001   | Total/NA  | Water  | 8260B  |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

**Client Sample ID: SW-071916-TP-001**

**Date Collected: 07/19/16 09:45**

**Date Received: 07/20/16 09:30**

**Lab Sample ID: 240-67397-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1.67            | 239976       | 07/27/16 15:24       | TJL1    | TAL CAN |

**Client Sample ID: SW-071916-TP-002**

**Date Collected: 07/19/16 09:55**

**Date Received: 07/20/16 09:30**

**Lab Sample ID: 240-67397-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2.5             | 239976       | 07/27/16 15:46       | TJL1    | TAL CAN |

**Client Sample ID: SW-071916-TP-003**

**Date Collected: 07/19/16 10:00**

**Date Received: 07/20/16 09:30**

**Lab Sample ID: 240-67397-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2.5             | 239976       | 07/27/16 16:09       | TJL1    | TAL CAN |

**Client Sample ID: TB-071916-TP-001**

**Date Collected: 07/19/16 10:10**

**Date Received: 07/20/16 09:30**

**Lab Sample ID: 240-67397-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 239976       | 07/27/16 16:31       | TJL1    | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-67397-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority         | Program       | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| California        | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California        | State Program | 9          | 2927             | 04-30-17        |
| Connecticut       | State Program | 1          | PH-0590          | 12-31-17        |
| Florida           | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois          | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas            | NELAP         | 7          | E-10336          | 07-31-16 *      |
| Kentucky (UST)    | State Program | 4          | 58               | 02-23-17        |
| Kentucky (WW)     | State Program | 4          | 98016            | 12-31-16        |
| Minnesota         | NELAP         | 5          | 039-999-348      | 12-31-16        |
| Nevada            | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey        | NELAP         | 2          | OH001            | 06-30-17        |
| New York          | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP          | State Program | 5          | CL0024           | 09-14-17        |
| Oregon            | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania      | NELAP         | 3          | 68-00340         | 08-31-16 *      |
| Texas             | NELAP         | 6          | T104704517-15-5  | 08-31-16 *      |
| USDA              | Federal       |            | P330-13-00319    | 11-26-16        |
| Virginia          | NELAP         | 3          | 460175           | 09-14-16 *      |
| Washington        | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP | State Program | 3          | 210              | 12-31-16        |
| Wisconsin         | State Program | 5          | 999518190        | 08-31-16 *      |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



COC NO.: **N-14228**

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**Fax: (317) 328-2666**

(See Reverse Side for Instructions)

[illegible]

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## GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

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## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71139-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 2:59:25 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

### Qualifiers

#### GC 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. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

#### Metals

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### General Chemistry

| Qualifier | Qualifier Description                                            |
|-----------|------------------------------------------------------------------|
| H         | Sample was prepped or analyzed beyond the specified holding time |
| U         | Indicates the analyte was analyzed for but not detected.         |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

# Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

**Job ID: 240-71139-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-71139-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/21/2016 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

#### GC VOA

Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-253586.

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.

#### General Chemistry

Method(s) 300.0: The following samples were analyzed outside of analytical holding time due to instrument over pressure: GW-101916-TW-002 (240-71139-2), GW-101916-TW-003 (240-71139-3), GW-101916-TW-004 (240-71139-4) and GW-101916-TW-005 (240-71139-5).

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

| Method     | Method Description                                | Protocol | Laboratory |
|------------|---------------------------------------------------|----------|------------|
| RSK-175    | Dissolved Gases (GC)                              | RSK      | TAL CAN    |
| 6010B      | Metals (ICP)                                      | SW846    | TAL CAN    |
| 2320B-1997 | Alkalinity, Total                                 | SM       | TAL CAN    |
| 2340C-1997 | Hardness, Total                                   | SM       | TAL CAN    |
| 300.0      | Anions, Ion Chromatography                        | MCAWW    | TAL CAN    |
| 9034       | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Dissolved (DOC)                   | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Total (TOC)                       | SW846    | TAL CAN    |

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71139-2   | GW-101916-TW-002 | Water  | 10/20/16 09:40 | 10/21/16 13:10 |
| 240-71139-3   | GW-101916-TW-003 | Water  | 10/20/16 11:20 | 10/21/16 13:10 |
| 240-71139-4   | GW-101916-TW-004 | Water  | 10/20/16 13:20 | 10/21/16 13:10 |
| 240-71139-5   | GW-101916-TW-005 | Water  | 10/20/16 14:50 | 10/21/16 13:10 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Client Sample ID: GW-101916-TW-002

## Lab Sample ID: 240-71139-2

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 0.39   | J         | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 0.23   | J         | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 0.27   | J         | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 150    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 190    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 300    |           | 5.0  | 3.1   | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 36     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Nitrate as N                    | 0.13   | H         | 0.10 | 0.035 | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 82     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 3.2    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 3.4    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-101916-TW-003

## Lab Sample ID: 240-71139-3

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 2.5    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 240    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 300    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 360    |           | 5.0  | 3.1   | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 46     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 71     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.1    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.2    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-101916-TW-004

## Lab Sample ID: 240-71139-4

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 28     |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 0.42   | J         | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 4.8    |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 110    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 340    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 430    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 56     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 77     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.1    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.2    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-101916-TW-005

## Lab Sample ID: 240-71139-5

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 6.3    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 0.54   |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 250    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 330    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 380    |           | 5.0  | 3.1   | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 34     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 62     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.3    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.3    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 0.39      | J         | 0.50     | 0.080 | ug/L | - |          | 10/30/16 16:22 | 1       |
| Ethane                | 0.23      | J         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 16:22 | 1       |
| Ethylene              | 0.27      | J         | 0.50     | 0.13  | ug/L |   |          | 10/30/16 16:22 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 85        |           | 76 - 121 |       |      |   |          | 10/30/16 16:22 | 1       |

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 2.5       |           | 0.50     | 0.080 | ug/L | - |          | 10/30/16 16:39 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 16:39 | 1       |
| Ethylene              | 0.50      | U         | 0.50     | 0.13  | ug/L |   |          | 10/30/16 16:39 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 83        |           | 76 - 121 |       |      |   |          | 10/30/16 16:39 | 1       |

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 28        |           | 0.50     | 0.080 | ug/L | - |          | 10/30/16 16:56 | 1       |
| Ethane                | 0.42      | J         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 16:56 | 1       |
| Ethylene              | 4.8       |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 16:56 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 80        |           | 76 - 121 |       |      |   |          | 10/30/16 16:56 | 1       |

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 6.3       |           | 0.50     | 0.080 | ug/L | - |          | 10/30/16 17:14 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 17:14 | 1       |
| Ethylene              | 0.54      |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 17:14 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 80        |           | 76 - 121 |       |      |   |          | 10/30/16 17:14 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 150    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 12:15 | 1       |

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 240    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 15:46 | 1       |

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 110    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 15:50 | 1       |

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 250    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 15:55 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## General Chemistry

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 190    |           | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:00 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:00 | 1       |
| Hardness as calcium carbonate               | 300    |           | 5.0  | 3.1   | mg/L |   |                | 10/25/16 12:21 | 1       |
| Chloride                                    | 36     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 18:43 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 18:43 | 1       |
| Nitrate as N                                | 0.13   | H         | 0.10 | 0.035 | mg/L |   |                | 10/24/16 18:43 | 1       |
| Sulfate                                     | 82     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 18:43 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 12:01 | 1       |
| Total Organic Carbon                        | 3.2    |           | 1.0  | 0.080 | mg/L |   |                | 10/24/16 19:31 | 1       |

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 300    |           | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:12 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:12 | 1       |
| Hardness as calcium carbonate               | 360    |           | 5.0  | 3.1   | mg/L |   |                | 10/25/16 12:26 | 1       |
| Chloride                                    | 46     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 19:43 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 19:43 | 1       |
| Nitrate as N                                | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 19:43 | 1       |
| Sulfate                                     | 71     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 19:43 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 12:01 | 1       |
| Total Organic Carbon                        | 1.1    |           | 1.0  | 0.080 | mg/L |   |                | 10/24/16 19:59 | 1       |

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 340    |           | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:29 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 10/29/16 03:29 | 1       |
| Hardness as calcium carbonate               | 430    |           | 25   | 16    | mg/L |   |                | 10/25/16 12:32 | 1       |
| Chloride                                    | 56     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 20:04 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 20:04 | 1       |
| Nitrate as N                                | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 20:04 | 1       |
| Sulfate                                     | 77     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 20:04 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 12:01 | 1       |
| Total Organic Carbon                        | 1.1    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 19:43 | 1       |

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 330    |           | 5.0  | 1.9   | mg/L |   |                | 10/31/16 15:35 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 10/31/16 15:35 | 1       |
| Hardness as calcium carbonate               | 380    |           | 5.0  | 3.1   | mg/L |   |                | 10/25/16 11:59 | 1       |
| Chloride                                    | 34     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 20:24 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 20:24 | 1       |
| Nitrate as N                                | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 20:24 | 1       |
| Sulfate                                     | 62     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 20:24 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 12:01 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## General Chemistry (Continued)

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.3    |           | 1.0 | 0.080 | mg/L |   |          | 10/26/16 12:32 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## General Chemistry - Dissolved

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 3.4    |           | 1.0 | 0.080 | mg/L |   |          | 11/01/16 07:13 | 1       |

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.2    |           | 1.0 | 0.080 | mg/L |   |          | 11/01/16 07:57 | 1       |

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.2    |           | 1.0 | 0.080 | mg/L |   |          | 11/01/16 08:25 | 1       |

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.3    |           | 1.0 | 0.080 | mg/L |   |          | 11/01/16 08:51 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | Trifluoroethane<br>(76-121) |
|------------------|--------------------|-----------------------------|
| 240-71139-2      | GW-101916-TW-002   | 85                          |
| 240-71139-3      | GW-101916-TW-003   | 83                          |
| 240-71139-4      | GW-101916-TW-004   | 80                          |
| 240-71139-5      | GW-101916-TW-005   | 80                          |
| LCS 240-253586/5 | Lab Control Sample | 87                          |
| MB 240-253586/4  | Method Blank       | 90                          |

### Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-253586/4

Matrix: Water

Analysis Batch: 253586

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result | MB Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|--------------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 0.50      | U            | 0.50     | 0.080 | ug/L |   |          | 10/30/16 14:39 | 1       |
| Ethane                | 0.50      | U            | 0.50     | 0.14  | ug/L |   |          | 10/30/16 14:39 | 1       |
| Ethylene              | 0.50      | U            | 0.50     | 0.13  | ug/L |   |          | 10/30/16 14:39 | 1       |
| Surrogate             | %Recovery | MB Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 90        |              | 76 - 121 |       |      |   |          | 10/30/16 14:39 | 1       |

Lab Sample ID: LCS 240-253586/5

Matrix: Water

Analysis Batch: 253586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|-------------|---------------|---------------|------|---|------|--------------|
| Methane               | 199         | 191           |               | ug/L |   | 96   | 80 - 130     |
| Ethane                | 374         | 372           |               | ug/L |   | 100  | 76 - 131     |
| Ethylene              | 349         | 345           |               | ug/L |   | 99   | 79 - 132     |
| Surrogate             | %Recovery   | LCS Qualifier | Limits        |      |   |      |              |
| 1,1,1-Trifluoroethane | 87          |               | 76 - 121      |      |   |      |              |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-252889/1-A

Matrix: Water

Analysis Batch: 253099

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 252889

| Analyte   | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15        | U            | 15 | 5.1 | ug/L |   | 10/25/16 14:00 | 10/26/16 12:07 | 1       |

Lab Sample ID: LCS 240-252889/2-A

Matrix: Water

Analysis Batch: 253099

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 252889

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 500         | 530        |               | ug/L |   | 106  | 80 - 120     |

Lab Sample ID: 240-71139-2 MS

Matrix: Water

Analysis Batch: 253099

Client Sample ID: GW-101916-TW-002

Prep Type: Dissolved

Prep Batch: 252889

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Manganese | 150           |                  | 500         | 671       |              | ug/L |   | 104  | 75 - 125     |

Lab Sample ID: 240-71139-2 MSD

Matrix: Water

Analysis Batch: 253099

Client Sample ID: GW-101916-TW-002

Prep Type: Dissolved

Prep Batch: 252889

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Manganese | 150           |                  | 500         | 668        |               | ug/L |   | 103  | 75 - 125     | 0   | 20    |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-253650/35

Matrix: Water

Analysis Batch: 253650

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

| Analyte                                     | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 10/28/16 20:51 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 10/28/16 20:51 | 1       |

Lab Sample ID: MB 240-253787/5

Matrix: Water

Analysis Batch: 253787

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

| Analyte                                     | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 10/31/16 14:23 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 10/31/16 14:23 | 1       |

## Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-252879/1

Matrix: Water

Analysis Batch: 252879

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

| Analyte                       | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Hardness as calcium carbonate | 5.0          | U               | 5.0 | 3.1 | mg/L |   |          | 10/25/16 10:20 | 1       |

Lab Sample ID: LCS 240-252879/2

Matrix: Water

Analysis Batch: 252879

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

| Analyte                       | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Hardness as calcium carbonate | 170            | 160           |                  | mg/L |   | 94   | 80 - 120        |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-252807/3

Matrix: Water

Analysis Batch: 252807

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

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/24/16 18:03 | 1       |
| Sulfate  | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/24/16 18:03 | 1       |

Lab Sample ID: LCS 240-252807/4

Matrix: Water

Analysis Batch: 252807

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

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 50.0           | 49.1          |                  | mg/L |   | 98   | 90 - 110        |
| Sulfate  | 50.0           | 50.8          |                  | mg/L |   | 102  | 90 - 110        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-71139-2 MS

Matrix: Water

Analysis Batch: 252807

Client Sample ID: GW-101916-TW-002

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 36            |                  | 50.0        | 84.9      |              | mg/L |   | 97   | 80 - 120     |
| Sulfate  | 82            |                  | 50.0        | 131       |              | mg/L |   | 99   | 80 - 120     |

Lab Sample ID: 240-71139-2 MSD

Matrix: Water

Analysis Batch: 252807

Client Sample ID: GW-101916-TW-002

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 36            |                  | 50.0        | 83.3       |               | mg/L |   | 94   | 80 - 120     | 2   | 15        |
| Sulfate  | 82            |                  | 50.0        | 129        |               | mg/L |   | 95   | 80 - 120     | 1   | 15        |

Lab Sample ID: MB 240-252808/3

Matrix: Water

Analysis Batch: 252808

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.10      | U            | 0.10 | 0.038 | mg/L |   |          | 10/24/16 18:03 | 1       |
| Nitrate as N | 0.10      | U            | 0.10 | 0.035 | mg/L |   |          | 10/24/16 18:03 | 1       |

Lab Sample ID: LCS 240-252808/4

Matrix: Water

Analysis Batch: 252808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrite as N | 2.50        | 2.49       |               | mg/L |   | 100  | 90 - 110     |
| Nitrate as N | 2.50        | 2.59       |               | mg/L |   | 104  | 90 - 110     |

Lab Sample ID: 240-71139-2 MS

Matrix: Water

Analysis Batch: 252808

Client Sample ID: GW-101916-TW-002

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrite as N | 0.10          | U H              | 2.50        | 2.71      |              | mg/L |   | 108  | 80 - 120     |
| Nitrate as N | 0.13          | H                | 2.50        | 2.77      |              | mg/L |   | 106  | 80 - 120     |

Lab Sample ID: 240-71139-2 MSD

Matrix: Water

Analysis Batch: 252808

Client Sample ID: GW-101916-TW-002

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrite as N | 0.10          | U H              | 2.50        | 2.77       |               | mg/L |   | 111  | 80 - 120     | 2   | 15        |
| Nitrate as N | 0.13          | H                | 2.50        | 2.68       |               | mg/L |   | 102  | 80 - 120     | 3   | 15        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-253036/1-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Sulfide | 3.0       | U            | 3.0 | 0.94 | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |

Lab Sample ID: LCS 240-253036/2-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfide | 8.27        | 7.47       |               | mg/L |   | 90   | 70 - 120     |

## Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-252834/4

Matrix: Water

Analysis Batch: 252834

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 10/24/16 10:13 | 1       |

Lab Sample ID: LCS 240-252834/6

Matrix: Water

Analysis Batch: 252834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 46.3        | 47.0       |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: LLCS 240-252834/5

Matrix: Water

Analysis Batch: 252834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Organic Carbon | 4.63        | 4.50        |                | mg/L |   | 97   | 88 - 115     |

Lab Sample ID: MB 240-253193/4

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 10/26/16 12:07 | 1       |

Lab Sample ID: LCS 240-253193/6

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 46.3        | 46.3       |               | mg/L |   | 100  | 80 - 120     |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LLCS 240-253193/5

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Organic Carbon | 4.63        | 4.37        |                | mg/L |   | 94   | 88 - 115     |

Lab Sample ID: 240-71139-5 MS

Matrix: Water

Analysis Batch: 253193

Client Sample ID: GW-101916-TW-005

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Total Organic Carbon | 1.3           |                  | 25.0        | 23.3      |              | mg/L |   | 88   | 65 - 134     |

Lab Sample ID: 240-71139-5 MSD

Matrix: Water

Analysis Batch: 253193

Client Sample ID: GW-101916-TW-005

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Total Organic Carbon | 1.3           |                  | 25.0        | 23.8       |               | mg/L |   | 90   | 65 - 134     | 2   | 10        |

## Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-253943/4

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Method Blank

Prep Type: Dissolved

| Analyte                  | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 11/01/16 06:48 | 1       |

Lab Sample ID: LCS 240-253943/6

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| Dissolved Organic Carbon | 46.3        | 47.3       |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: LLCS 240-253943/5

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Dissolved Organic Carbon | 4.63        | 4.54        |                | mg/L |   | 98   | 88 - 115     |

Lab Sample ID: 240-71139-2 MS

Matrix: Water

Analysis Batch: 253943

Client Sample ID: GW-101916-TW-002

Prep Type: Dissolved

| Analyte                  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Dissolved Organic Carbon | 3.4           |                  | 25.0        | 26.7      |              | mg/L |   | 93   | 65 - 134     |

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

### Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 240-71139-2 MSD

Matrix: Water

Analysis Batch: 253943

Client Sample ID: GW-101916-TW-002

Prep Type: Dissolved

| Analyte                  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Dissolved Organic Carbon | 3.4              |                     | 25.0           | 26.6          |                  | mg/L | — | 93   | 65 - 134        | 0   | 10           |

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## GC VOA

### Analysis Batch: 253586

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 240-71139-2      | GW-101916-TW-002   | Total/NA  | Water  | RSK-175 |            |
| 240-71139-3      | GW-101916-TW-003   | Total/NA  | Water  | RSK-175 |            |
| 240-71139-4      | GW-101916-TW-004   | Total/NA  | Water  | RSK-175 |            |
| 240-71139-5      | GW-101916-TW-005   | Total/NA  | Water  | RSK-175 |            |
| MB 240-253586/4  | Method Blank       | Total/NA  | Water  | RSK-175 |            |
| LCS 240-253586/5 | Lab Control Sample | Total/NA  | Water  | RSK-175 |            |

## Metals

### Prep Batch: 252889

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71139-2        | GW-101916-TW-002   | Dissolved         | Water  | 3005A  |            |
| 240-71139-3        | GW-101916-TW-003   | Dissolved         | Water  | 3005A  |            |
| 240-71139-4        | GW-101916-TW-004   | Dissolved         | Water  | 3005A  |            |
| 240-71139-5        | GW-101916-TW-005   | Dissolved         | Water  | 3005A  |            |
| MB 240-252889/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-252889/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-71139-2 MS     | GW-101916-TW-002   | Dissolved         | Water  | 3005A  |            |
| 240-71139-2 MSD    | GW-101916-TW-002   | Dissolved         | Water  | 3005A  |            |

### Analysis Batch: 253099

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71139-2        | GW-101916-TW-002   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71139-3        | GW-101916-TW-003   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71139-4        | GW-101916-TW-004   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71139-5        | GW-101916-TW-005   | Dissolved         | Water  | 6010B  | 252889     |
| MB 240-252889/1-A  | Method Blank       | Total Recoverable | Water  | 6010B  | 252889     |
| LCS 240-252889/2-A | Lab Control Sample | Total Recoverable | Water  | 6010B  | 252889     |
| 240-71139-2 MS     | GW-101916-TW-002   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71139-2 MSD    | GW-101916-TW-002   | Dissolved         | Water  | 6010B  | 252889     |

## General Chemistry

### Analysis Batch: 252807

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-2      | GW-101916-TW-002   | Total/NA  | Water  | 300.0  |            |
| 240-71139-3      | GW-101916-TW-003   | Total/NA  | Water  | 300.0  |            |
| 240-71139-4      | GW-101916-TW-004   | Total/NA  | Water  | 300.0  |            |
| 240-71139-5      | GW-101916-TW-005   | Total/NA  | Water  | 300.0  |            |
| MB 240-252807/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252807/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71139-2 MS   | GW-101916-TW-002   | Total/NA  | Water  | 300.0  |            |
| 240-71139-2 MSD  | GW-101916-TW-002   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 252808

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-71139-2   | GW-101916-TW-002 | Total/NA  | Water  | 300.0  |            |
| 240-71139-3   | GW-101916-TW-003 | Total/NA  | Water  | 300.0  |            |
| 240-71139-4   | GW-101916-TW-004 | Total/NA  | Water  | 300.0  |            |
| 240-71139-5   | GW-101916-TW-005 | Total/NA  | Water  | 300.0  |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## General Chemistry (Continued)

### Analysis Batch: 252808 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| MB 240-252808/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252808/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71139-2 MS   | GW-101916-TW-002   | Total/NA  | Water  | 300.0  |            |
| 240-71139-2 MSD  | GW-101916-TW-002   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 252834

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-2       | GW-101916-TW-002   | Total/NA  | Water  | 9060   |            |
| 240-71139-3       | GW-101916-TW-003   | Total/NA  | Water  | 9060   |            |
| MB 240-252834/4   | Method Blank       | Total/NA  | Water  | 9060   |            |
| LCS 240-252834/6  | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| LLCS 240-252834/5 | Lab Control Sample | Total/NA  | Water  | 9060   |            |

### Analysis Batch: 252879

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 240-71139-2      | GW-101916-TW-002   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71139-3      | GW-101916-TW-003   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71139-4      | GW-101916-TW-004   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71139-5      | GW-101916-TW-005   | Total/NA  | Water  | 2340C-1997 |            |
| MB 240-252879/1  | Method Blank       | Total/NA  | Water  | 2340C-1997 |            |
| LCS 240-252879/2 | Lab Control Sample | Total/NA  | Water  | 2340C-1997 |            |

### Prep Batch: 253036

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-2        | GW-101916-TW-002   | Total/NA  | Water  | 9030B  |            |
| 240-71139-3        | GW-101916-TW-003   | Total/NA  | Water  | 9030B  |            |
| 240-71139-4        | GW-101916-TW-004   | Total/NA  | Water  | 9030B  |            |
| 240-71139-5        | GW-101916-TW-005   | Total/NA  | Water  | 9030B  |            |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9030B  |            |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9030B  |            |

### Analysis Batch: 253109

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-2        | GW-101916-TW-002   | Total/NA  | Water  | 9034   | 253036     |
| 240-71139-3        | GW-101916-TW-003   | Total/NA  | Water  | 9034   | 253036     |
| 240-71139-4        | GW-101916-TW-004   | Total/NA  | Water  | 9034   | 253036     |
| 240-71139-5        | GW-101916-TW-005   | Total/NA  | Water  | 9034   | 253036     |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9034   | 253036     |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9034   | 253036     |

### Analysis Batch: 253193

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-4       | GW-101916-TW-004   | Total/NA  | Water  | 9060   |            |
| 240-71139-5       | GW-101916-TW-005   | Total/NA  | Water  | 9060   |            |
| MB 240-253193/4   | Method Blank       | Total/NA  | Water  | 9060   |            |
| LCS 240-253193/6  | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| LLCS 240-253193/5 | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| 240-71139-5 MS    | GW-101916-TW-005   | Total/NA  | Water  | 9060   |            |
| 240-71139-5 MSD   | GW-101916-TW-005   | Total/NA  | Water  | 9060   |            |

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

### General Chemistry (Continued)

#### Analysis Batch: 253650

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|------------------|------------------|-----------|--------|------------|------------|
| 240-71139-2      | GW-101916-TW-002 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71139-3      | GW-101916-TW-003 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71139-4      | GW-101916-TW-004 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-253650/35 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |

#### Analysis Batch: 253787

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|-----------------|------------------|-----------|--------|------------|------------|
| 240-71139-5     | GW-101916-TW-005 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-253787/5 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |

#### Analysis Batch: 253943

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-2       | GW-101916-TW-002   | Dissolved | Water  | 9060   |            |
| 240-71139-3       | GW-101916-TW-003   | Dissolved | Water  | 9060   |            |
| 240-71139-4       | GW-101916-TW-004   | Dissolved | Water  | 9060   |            |
| 240-71139-5       | GW-101916-TW-005   | Dissolved | Water  | 9060   |            |
| MB 240-253943/4   | Method Blank       | Dissolved | Water  | 9060   |            |
| LCS 240-253943/6  | Lab Control Sample | Dissolved | Water  | 9060   |            |
| LLCS 240-253943/5 | Lab Control Sample | Dissolved | Water  | 9060   |            |
| 240-71139-2 MS    | GW-101916-TW-002   | Dissolved | Water  | 9060   |            |
| 240-71139-2 MSD   | GW-101916-TW-002   | Dissolved | Water  | 9060   |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

**Client Sample ID: GW-101916-TW-002**

**Date Collected: 10/20/16 09:40**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 16:22       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 12:15       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253650       | 10/29/16 03:00       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 252879       | 10/25/16 12:21       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 18:43       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 18:43       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 12:01       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 07:13       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 252834       | 10/24/16 19:31       | TPH     | TAL CAN |

**Client Sample ID: GW-101916-TW-003**

**Date Collected: 10/20/16 11:20**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 16:39       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 15:46       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253650       | 10/29/16 03:12       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 252879       | 10/25/16 12:26       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 19:43       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 19:43       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 12:01       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 07:57       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 252834       | 10/24/16 19:59       | TPH     | TAL CAN |

**Client Sample ID: GW-101916-TW-004**

**Date Collected: 10/20/16 13:20**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 16:56       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 15:50       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253650       | 10/29/16 03:29       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 252879       | 10/25/16 12:32       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 20:04       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 20:04       | LCN     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

**Client Sample ID: GW-101916-TW-004**

**Lab Sample ID: 240-71139-4**

**Date Collected: 10/20/16 13:20**

**Matrix: Water**

**Date Received: 10/21/16 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 12:01       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 08:25       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 19:43       | TPH     | TAL CAN |

**Client Sample ID: GW-101916-TW-005**

**Lab Sample ID: 240-71139-5**

**Date Collected: 10/20/16 14:50**

**Matrix: Water**

**Date Received: 10/21/16 13:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 17:14       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 15:55       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253787       | 10/31/16 15:35       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 252879       | 10/25/16 11:59       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 20:24       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 20:24       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 12:01       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 08:51       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 12:32       | TPH     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

36/C40

## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Anderson<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Carrier Tracking No(s): FedEx<br>Job #: 017302-707-64016                                                                                                                                                |  |
| Due Date Requested:<br>TAT Requested (days): 2 week (std)                                                                                                                                                                                                                                                            |  | Analysis Requested<br>8260B - VOCs<br>9034 Calc - Sulfide<br>2320B - Alkalinity, Carb and Bicarb<br>2340C - Hardness as calcium carbonate<br>9060 Diss - DOC<br>RSK 175 - Dissolved Gases<br>9060 - TOC<br>900.0 - 28D - Chloride, Sulfate, Nitrate, Nitrite<br>6010B - Manganese |  |
| Sample Date<br>Sample Time<br>Sample Matrix<br>Preservation Code:                                                                                                                                                                                                                                                    |  | Field Filled Sample (Yes or No)<br>Perform MS/MSD (Yes or No)                                                                                                                                                                                                                     |  |
| GW-101916-TW-001<br>GW-102016-TW-002<br>GW-102016-TW-003<br>GW-102016-TW-004<br>GW-102016-TW-005<br>TB-102016-TW-001                                                                                                                                                                                                 |  | 10/19/16 16:30 Water<br>10/20/16 9:40 Water<br>10/20/16 11:00 Water<br>10/20/16 13:20 Water<br>10/20/16 14:50 Water<br>10/20/16 16:00 Water<br>10/20/16 16:00 Water<br>10/20/16 16:00 Water<br>10/20/16 16:00 Water<br>10/20/16 16:00 Water                                       |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                            |  | Sample Disposal<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab<br>240-71139 Chain of Custody<br>are retained longer than 1 month                                                                                                           |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                           |  | Date:                                                                                                                                                                                                                                                                             |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                     |  | Date/Time: 10/20/16 18:55                                                                                                                                                                                                                                                         |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                     |  | Date/Time:                                                                                                                                                                                                                                                                        |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                     |  | Date/Time:                                                                                                                                                                                                                                                                        |  |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                |  | Custody Seal No.:                                                                                                                                                                                                                                                                 |  |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                           |  | Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                                                                                       |  |



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>               | <u>Container</u><br>pH | <u>Preservative</u><br>Added (mls) | <u>Lot #</u> |
|-------------------------|---------------|-------------------------------------|------------------------|------------------------------------|--------------|
| GW-101916-TW-002        | 240-71139-N-2 | Plastic 250ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-002        | 240-71139-P-2 | Plastic 500ml - with Zn Acetate and | >9                     |                                    |              |
| GW-101916-TW-002        | 240-71139-Q-2 | Plastic 500ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-003        | 240-71139-N-3 | Plastic 250ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-003        | 240-71139-P-3 | Plastic 500ml - with Zn Acetate and | >9                     |                                    |              |
| GW-101916-TW-003        | 240-71139-Q-3 | Plastic 500ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-004        | 240-71139-N-4 | Plastic 250ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-004        | 240-71139-P-4 | Plastic 500ml - with Zn Acetate and | >9                     |                                    |              |
| GW-101916-TW-004        | 240-71139-Q-4 | Plastic 500ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-005        | 240-71139-N-5 | Plastic 250ml - with Nitric Acid    | <2                     |                                    |              |
| GW-101916-TW-005        | 240-71139-P-5 | Plastic 500ml - with Zn Acetate and | >9                     |                                    |              |
| GW-101916-TW-005        | 240-71139-Q-5 | Plastic 500ml - with Nitric Acid    | <2                     |                                    |              |



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71139-2

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:09:26 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| 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.                                                                    |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

**Job ID: 240-71139-2**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-71139-2

### Comments

No additional comments.

### Receipt

The samples were received on 10/21/2016 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253479 recovered outside control limits for the following analytes: Acetone and 2-Butanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

### VOA Prep

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71139-1   | GW-101916-TW-001 | Water  | 10/19/16 16:30 | 10/21/16 13:10 |
| 240-71139-2   | GW-101916-TW-002 | Water  | 10/20/16 09:40 | 10/21/16 13:10 |
| 240-71139-3   | GW-101916-TW-003 | Water  | 10/20/16 11:20 | 10/21/16 13:10 |
| 240-71139-4   | GW-101916-TW-004 | Water  | 10/20/16 13:20 | 10/21/16 13:10 |
| 240-71139-5   | GW-101916-TW-005 | Water  | 10/20/16 14:50 | 10/21/16 13:10 |
| 240-71139-6   | TB-101916-TW-001 | Water  | 10/20/16 00:00 | 10/21/16 13:10 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

## Client Sample ID: GW-101916-TW-001

## Lab Sample ID: 240-71139-1

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 1.6    |           | 1.0 | 0.25 | ug/L | 1       |   | 8260B  | Total/NA  |
| Carbon disulfide         | 0.57   | J         | 1.0 | 0.34 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 28     |           | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 1.2    |           | 1.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| Vinyl chloride           | 1.4    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-101916-TW-002

## Lab Sample ID: 240-71139-2

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 4.4    |           | 2.5 | 0.63 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 62     |           | 2.5 | 0.75 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 6.1    |           | 2.5 | 0.73 | ug/L | 2.5     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 39     |           | 2.5 | 1.1  | ug/L | 2.5     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-101916-TW-003

## Lab Sample ID: 240-71139-3

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 83     | J         | 100 | 25  | ug/L | 100     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 1800   |           | 100 | 30  | ug/L | 100     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 86     | J B       | 100 | 53  | ug/L | 100     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 75     | J         | 100 | 29  | ug/L | 100     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 140    |           | 100 | 45  | ug/L | 100     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-101916-TW-004

## Lab Sample ID: 240-71139-4

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 160    | J         | 250 | 63  | ug/L | 250     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 5000   |           | 250 | 75  | ug/L | 250     |   | 8260B  | Total/NA  |
| Methylene Chloride     | 210    | J B       | 250 | 130 | ug/L | 250     |   | 8260B  | Total/NA  |
| Trichloroethene        | 160    | J         | 250 | 83  | ug/L | 250     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 310    |           | 250 | 110 | ug/L | 250     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-101916-TW-005

## Lab Sample ID: 240-71139-5

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 160    | J         | 200 | 50  | ug/L | 200     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 3500   |           | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| Methylene Chloride       | 180    | J B       | 200 | 110 | ug/L | 200     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 140    | J         | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |
| Trichloroethene          | 1700   |           | 200 | 66  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 150    | J         | 200 | 90  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: TB-101916-TW-001

## Lab Sample ID: 240-71139-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: GW-101916-TW-001

Date Collected: 10/19/16 16:30

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-1

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,1-Dichloroethane          | 1.6    |           | 1.0 | 0.25 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/28/16 16:19 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/28/16 16:19 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Carbon disulfide            | 0.57   | J         | 1.0 | 0.34 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/28/16 16:19 | 1       |
| cis-1,2-Dichloroethene      | 28     |           | 1.0 | 0.30 | ug/L |   |          | 10/28/16 16:19 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/28/16 16:19 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/28/16 16:19 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 16:19 | 1       |
| trans-1,2-Dichloroethene    | 1.2    |           | 1.0 | 0.29 | ug/L |   |          | 10/28/16 16:19 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Vinyl chloride              | 1.4    |           | 1.0 | 0.45 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/28/16 16:19 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/28/16 16:19 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 63 - 132 |          | 10/28/16 16:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |          | 10/28/16 16:19 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 73 - 124 |          | 10/28/16 16:19 | 1       |
| Dibromofluoromethane (Surr)  | 83        |           | 80 - 120 |          | 10/28/16 16:19 | 1       |

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 2.5    | U         | 2.5 | 0.58 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 1,1,2,2-Tetrachloroethane | 2.5    | U         | 2.5 | 0.80 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 1,1,2-Trichloroethane     | 2.5    | U         | 2.5 | 0.85 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 1,1-Dichloroethane        | 4.4    |           | 2.5 | 0.63 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 1,1-Dichloroethene        | 2.5    | U         | 2.5 | 0.68 | ug/L |   |          | 10/28/16 16:41 | 2.5     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: GW-101916-TW-002

Date Collected: 10/20/16 09:40

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 2.5       | U         | 2.5      | 0.75 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 1,2-Dichloropropane          | 2.5       | U         | 2.5      | 0.75 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 2-Hexanone                   | 25        | U         | 25       | 3.1  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Acetone                      | 25        | U *       | 25       | 4.4  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Benzene                      | 2.5       | U         | 2.5      | 0.70 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Bromoform                    | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Bromomethane                 | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Carbon disulfide             | 2.5       | U         | 2.5      | 0.85 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Carbon tetrachloride         | 2.5       | U         | 2.5      | 0.88 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Chlorobenzene                | 2.5       | U         | 2.5      | 0.80 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Chloroethane                 | 2.5       | U         | 2.5      | 1.0  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Chloroform                   | 2.5       | U         | 2.5      | 0.78 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Chloromethane                | 2.5       | U         | 2.5      | 1.1  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| cis-1,2-Dichloroethene       | 62        |           | 2.5      | 0.75 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| cis-1,3-Dichloropropene      | 2.5       | U         | 2.5      | 0.65 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Dichlorobromomethane         | 2.5       | U         | 2.5      | 0.75 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Ethylbenzene                 | 2.5       | U         | 2.5      | 0.65 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 2-Butanone (MEK)             | 25        | U *       | 25       | 2.6  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| 4-Methyl-2-pentanone (MIBK)  | 25        | U         | 25       | 1.8  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Methylene Chloride           | 2.5       | U         | 2.5      | 1.3  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Styrene                      | 2.5       | U         | 2.5      | 0.58 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Tetrachloroethene            | 2.5       | U         | 2.5      | 0.75 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Toluene                      | 2.5       | U         | 2.5      | 0.58 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| trans-1,2-Dichloroethene     | 6.1       |           | 2.5      | 0.73 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| trans-1,3-Dichloropropene    | 2.5       | U         | 2.5      | 0.78 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Trichloroethene              | 2.5       | U         | 2.5      | 0.83 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Vinyl chloride               | 39        |           | 2.5      | 1.1  | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Xylenes, Total               | 5.0       | U         | 5.0      | 0.60 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Chlorodibromomethane         | 2.5       | U         | 2.5      | 0.63 | ug/L |   |          | 10/28/16 16:41 | 2.5     |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 63 - 132 |      |      |   |          | 10/28/16 16:41 | 2.5     |
| 4-Bromofluorobenzene (Surr)  | 89        |           | 73 - 120 |      |      |   |          | 10/28/16 16:41 | 2.5     |
| Toluene-d8 (Surr)            | 92        |           | 73 - 124 |      |      |   |          | 10/28/16 16:41 | 2.5     |
| Dibromofluoromethane (Surr)  | 85        |           | 80 - 120 |      |      |   |          | 10/28/16 16:41 | 2.5     |

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 100    | U         | 100  | 23  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,1,1,2-Tetrachloroethane | 100    | U         | 100  | 32  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,1,2-Trichloroethane     | 100    | U         | 100  | 34  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,1-Dichloroethane        | 83     | J         | 100  | 25  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,1-Dichloroethene        | 100    | U         | 100  | 27  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,2-Dichloroethane        | 100    | U         | 100  | 30  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 1,2-Dichloropropane       | 100    | U         | 100  | 30  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 2-Hexanone                | 1000   | U         | 1000 | 120 | ug/L |   |          | 10/28/16 17:04 | 100     |
| Acetone                   | 1000   | U *       | 1000 | 180 | ug/L |   |          | 10/28/16 17:04 | 100     |
| Benzene                   | 100    | U         | 100  | 28  | ug/L |   |          | 10/28/16 17:04 | 100     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: GW-101916-TW-003

Date Collected: 10/20/16 11:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 100    | U         | 100  | 43  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Bromomethane                | 100    | U         | 100  | 42  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Carbon disulfide            | 100    | U         | 100  | 34  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Carbon tetrachloride        | 100    | U         | 100  | 35  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Chlorobenzene               | 100    | U         | 100  | 32  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Chloroethane                | 100    | U         | 100  | 41  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Chloroform                  | 100    | U         | 100  | 31  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Chloromethane               | 100    | U         | 100  | 43  | ug/L |   |          | 10/28/16 17:04 | 100     |
| cis-1,2-Dichloroethene      | 1800   |           | 100  | 30  | ug/L |   |          | 10/28/16 17:04 | 100     |
| cis-1,3-Dichloropropene     | 100    | U         | 100  | 26  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Dichlorobromomethane        | 100    | U         | 100  | 30  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Ethylbenzene                | 100    | U         | 100  | 26  | ug/L |   |          | 10/28/16 17:04 | 100     |
| 2-Butanone (MEK)            | 1000   | U *       | 1000 | 100 | ug/L |   |          | 10/28/16 17:04 | 100     |
| 4-Methyl-2-pentanone (MIBK) | 1000   | U         | 1000 | 71  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Methylene Chloride          | 86     | J B       | 100  | 53  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Styrene                     | 100    | U         | 100  | 23  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Tetrachloroethene           | 100    | U         | 100  | 30  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Toluene                     | 100    | U         | 100  | 23  | ug/L |   |          | 10/28/16 17:04 | 100     |
| trans-1,2-Dichloroethene    | 75     | J         | 100  | 29  | ug/L |   |          | 10/28/16 17:04 | 100     |
| trans-1,3-Dichloropropene   | 100    | U         | 100  | 31  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Trichloroethene             | 100    | U         | 100  | 33  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Vinyl chloride              | 140    |           | 100  | 45  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Xylenes, Total              | 200    | U         | 200  | 24  | ug/L |   |          | 10/28/16 17:04 | 100     |
| Chlorodibromomethane        | 100    | U         | 100  | 25  | ug/L |   |          | 10/28/16 17:04 | 100     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 63 - 132 |          | 10/28/16 17:04 | 100     |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 10/28/16 17:04 | 100     |
| Toluene-d8 (Surr)            | 92        |           | 73 - 124 |          | 10/28/16 17:04 | 100     |
| Dibromofluoromethane (Surr)  | 85        |           | 80 - 120 |          | 10/28/16 17:04 | 100     |

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 250    | U         | 250  | 58  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,1,1,2-Tetrachloroethane | 250    | U         | 250  | 80  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,1,2-Trichloroethane     | 250    | U         | 250  | 85  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,1-Dichloroethane        | 160    | J         | 250  | 63  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,1-Dichloroethene        | 250    | U         | 250  | 68  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,2-Dichloroethane        | 250    | U         | 250  | 75  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 1,2-Dichloropropane       | 250    | U         | 250  | 75  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 2-Hexanone                | 2500   | U         | 2500 | 310 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Acetone                   | 2500   | U *       | 2500 | 440 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Benzene                   | 250    | U         | 250  | 70  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Bromoform                 | 250    | U         | 250  | 110 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Bromomethane              | 250    | U         | 250  | 110 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Carbon disulfide          | 250    | U         | 250  | 85  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Carbon tetrachloride      | 250    | U         | 250  | 88  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Chlorobenzene             | 250    | U         | 250  | 80  | ug/L |   |          | 10/28/16 17:26 | 250     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: GW-101916-TW-004

Date Collected: 10/20/16 13:20

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Chloroethane                | 250    | U         | 250  | 100 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Chloroform                  | 250    | U         | 250  | 78  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Chloromethane               | 250    | U         | 250  | 110 | ug/L |   |          | 10/28/16 17:26 | 250     |
| cis-1,2-Dichloroethene      | 5000   |           | 250  | 75  | ug/L |   |          | 10/28/16 17:26 | 250     |
| cis-1,3-Dichloropropene     | 250    | U         | 250  | 65  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Dichlorobromomethane        | 250    | U         | 250  | 75  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Ethylbenzene                | 250    | U         | 250  | 65  | ug/L |   |          | 10/28/16 17:26 | 250     |
| 2-Butanone (MEK)            | 2500   | U *       | 2500 | 260 | ug/L |   |          | 10/28/16 17:26 | 250     |
| 4-Methyl-2-pentanone (MIBK) | 2500   | U         | 2500 | 180 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Methylene Chloride          | 210    | J B       | 250  | 130 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Styrene                     | 250    | U         | 250  | 58  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Tetrachloroethene           | 250    | U         | 250  | 75  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Toluene                     | 250    | U         | 250  | 58  | ug/L |   |          | 10/28/16 17:26 | 250     |
| trans-1,2-Dichloroethene    | 250    | U         | 250  | 73  | ug/L |   |          | 10/28/16 17:26 | 250     |
| trans-1,3-Dichloropropene   | 250    | U         | 250  | 78  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Trichloroethene             | 160    | J         | 250  | 83  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Vinyl chloride              | 310    |           | 250  | 110 | ug/L |   |          | 10/28/16 17:26 | 250     |
| Xylenes, Total              | 500    | U         | 500  | 60  | ug/L |   |          | 10/28/16 17:26 | 250     |
| Chlorodibromomethane        | 250    | U         | 250  | 63  | ug/L |   |          | 10/28/16 17:26 | 250     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 63 - 132 |          | 10/28/16 17:26 | 250     |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 10/28/16 17:26 | 250     |
| Toluene-d8 (Surr)            | 93        |           | 73 - 124 |          | 10/28/16 17:26 | 250     |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |          | 10/28/16 17:26 | 250     |

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 200    | U         | 200  | 46  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,1,1,2,2-Tetrachloroethane | 200    | U         | 200  | 64  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,1,1,2-Trichloroethane     | 200    | U         | 200  | 68  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,1-Dichloroethane          | 160    | J         | 200  | 50  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,1-Dichloroethene          | 200    | U         | 200  | 54  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,2-Dichloroethane          | 200    | U         | 200  | 60  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 1,2-Dichloropropane         | 200    | U         | 200  | 60  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 2-Hexanone                  | 2000   | U         | 2000 | 250 | ug/L |   |          | 10/28/16 17:49 | 200     |
| Acetone                     | 2000   | U *       | 2000 | 350 | ug/L |   |          | 10/28/16 17:49 | 200     |
| Benzene                     | 200    | U         | 200  | 56  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Bromoform                   | 200    | U         | 200  | 86  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Bromomethane                | 200    | U         | 200  | 84  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 68  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 70  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 64  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Chloroethane                | 200    | U         | 200  | 82  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Chloroform                  | 200    | U         | 200  | 62  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Chloromethane               | 200    | U         | 200  | 86  | ug/L |   |          | 10/28/16 17:49 | 200     |
| cis-1,2-Dichloroethene      | 3500   |           | 200  | 60  | ug/L |   |          | 10/28/16 17:49 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 52  | ug/L |   |          | 10/28/16 17:49 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: GW-101916-TW-005

Date Collected: 10/20/16 14:50

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 200    | U         | 200  | 60  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 52  | ug/L |   |          | 10/28/16 17:49 | 200     |
| 2-Butanone (MEK)            | 2000   | U *       | 2000 | 200 | ug/L |   |          | 10/28/16 17:49 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 140 | ug/L |   |          | 10/28/16 17:49 | 200     |
| Methylene Chloride          | 180    | J B       | 200  | 110 | ug/L |   |          | 10/28/16 17:49 | 200     |
| Styrene                     | 200    | U         | 200  | 46  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 60  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 10/28/16 17:49 | 200     |
| trans-1,2-Dichloroethene    | 140    | J         | 200  | 58  | ug/L |   |          | 10/28/16 17:49 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 62  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Trichloroethene             | 1700   |           | 200  | 66  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Vinyl chloride              | 150    | J         | 200  | 90  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 48  | ug/L |   |          | 10/28/16 17:49 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 50  | ug/L |   |          | 10/28/16 17:49 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 63 - 132 |          | 10/28/16 17:49 | 200     |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 10/28/16 17:49 | 200     |
| Toluene-d8 (Surr)            | 93        |           | 73 - 124 |          | 10/28/16 17:49 | 200     |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |          | 10/28/16 17:49 | 200     |

Client Sample ID: TB-101916-TW-001

Date Collected: 10/20/16 00:00

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/28/16 18:11 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/28/16 18:11 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/28/16 18:11 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 18:11 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/28/16 18:11 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/28/16 18:11 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/28/16 18:11 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Client Sample ID: TB-101916-TW-001

Date Collected: 10/20/16 00:00

Date Received: 10/21/16 13:10

Lab Sample ID: 240-71139-6

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Styrene                   | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Tetrachloroethene         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Toluene                   | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/28/16 18:11 | 1       |
| trans-1,2-Dichloroethene  | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/28/16 18:11 | 1       |
| trans-1,3-Dichloropropene | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Trichloroethene           | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Vinyl chloride            | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Xylenes, Total            | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/28/16 18:11 | 1       |
| Chlorodibromomethane      | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/28/16 18:11 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 63 - 132 |          | 10/28/16 18:11 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 10/28/16 18:11 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 73 - 124 |          | 10/28/16 18:11 | 1       |
| Dibromofluoromethane (Surr)  | 82        |           | 80 - 120 |          | 10/28/16 18:11 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | 12DCE<br>(63-132) | BFB<br>(73-120) | TOL<br>(73-124) | DBFM<br>(80-120) |
|------------------|--------------------|-------------------|-----------------|-----------------|------------------|
| 240-71139-1      | GW-101916-TW-001   | 100               | 84              | 89              | 83               |
| 240-71139-2      | GW-101916-TW-002   | 98                | 89              | 92              | 85               |
| 240-71139-3      | GW-101916-TW-003   | 101               | 87              | 92              | 85               |
| 240-71139-4      | GW-101916-TW-004   | 102               | 87              | 93              | 86               |
| 240-71139-5      | GW-101916-TW-005   | 101               | 87              | 93              | 86               |
| 240-71139-6      | TB-101916-TW-001   | 100               | 87              | 90              | 82               |
| LCS 240-253479/4 | Lab Control Sample | 97                | 92              | 92              | 86               |
| MB 240-253479/6  | Method Blank       | 100               | 86              | 94              | 84               |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Lab Sample ID: MB 240-253479/6

Matrix: Water

Analysis Batch: 253479

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 10/28/16 14:11 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 10/28/16 14:11 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/28/16 14:11 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/28/16 14:11 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/28/16 14:11 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 10/28/16 14:11 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Methylene Chloride          | 0.877     | J            | 1.0 | 0.53 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/28/16 14:11 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/28/16 14:11 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 10/28/16 14:11 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/28/16 14:11 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100          |              | 63 - 132 |          | 10/28/16 14:11 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86           |              | 73 - 120 |          | 10/28/16 14:11 | 1       |
| Toluene-d8 (Surr)            | 94           |              | 73 - 124 |          | 10/28/16 14:11 | 1       |
| Dibromofluoromethane (Surr)  | 84           |              | 80 - 120 |          | 10/28/16 14:11 | 1       |

Lab Sample ID: LCS 240-253479/4

Matrix: Water

Analysis Batch: 253479

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-Trichloroethane     | 10.0        | 9.01       |               | ug/L |   | 90   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 9.55       |               | ug/L |   | 95   | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

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

Lab Sample ID: LCS 240-253479/4

Matrix: Water

Analysis Batch: 253479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 9.76       |               | ug/L |   | 98   | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 9.06       |               | ug/L |   | 91   | 77 - 121     |
| 1,1-Dichloroethene          | 10.0        | 8.65       |               | ug/L |   | 87   | 70 - 141     |
| 1,2-Dichloroethane          | 10.0        | 10.2       |               | ug/L |   | 102  | 76 - 130     |
| 1,2-Dichloropropane         | 10.0        | 9.85       |               | ug/L |   | 98   | 79 - 121     |
| 2-Hexanone                  | 20.0        | 23.6       |               | ug/L |   | 118  | 56 - 124     |
| Acetone                     | 20.0        | 24.8       | *             | ug/L |   | 124  | 46 - 120     |
| Benzene                     | 10.0        | 9.09       |               | ug/L |   | 91   | 80 - 120     |
| Bromoform                   | 10.0        | 6.62       |               | ug/L |   | 66   | 52 - 157     |
| Bromomethane                | 10.0        | 3.85       |               | ug/L |   | 39   | 24 - 160     |
| Carbon disulfide            | 10.0        | 8.29       |               | ug/L |   | 83   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 8.84       |               | ug/L |   | 88   | 69 - 149     |
| Chlorobenzene               | 10.0        | 9.05       |               | ug/L |   | 91   | 80 - 120     |
| Chloroethane                | 10.0        | 3.78       |               | ug/L |   | 38   | 24 - 147     |
| Chloroform                  | 10.0        | 9.58       |               | ug/L |   | 96   | 80 - 120     |
| Chloromethane               | 10.0        | 10.1       |               | ug/L |   | 101  | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 8.97       |               | ug/L |   | 90   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.88       |               | ug/L |   | 89   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 8.91       |               | ug/L |   | 89   | 76 - 125     |
| Ethylbenzene                | 10.0        | 9.30       |               | ug/L |   | 93   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 9.37       |               | ug/L |   | 94   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 27.7       | *             | ug/L |   | 138  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 21.4       |               | ug/L |   | 107  | 60 - 131     |
| Methylene Chloride          | 10.0        | 10.4       |               | ug/L |   | 104  | 68 - 136     |
| o-Xylene                    | 10.0        | 9.01       |               | ug/L |   | 90   | 80 - 120     |
| Styrene                     | 10.0        | 9.57       |               | ug/L |   | 96   | 80 - 120     |
| Tetrachloroethene           | 10.0        | 8.66       |               | ug/L |   | 87   | 80 - 123     |
| Toluene                     | 10.0        | 9.58       |               | ug/L |   | 96   | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 8.94       |               | ug/L |   | 89   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 8.99       |               | ug/L |   | 90   | 65 - 120     |
| Trichloroethene             | 10.0        | 8.66       |               | ug/L |   | 87   | 80 - 122     |
| Vinyl chloride              | 10.0        | 9.30       |               | ug/L |   | 93   | 60 - 129     |
| Xylenes, Total              | 20.0        | 18.4       |               | ug/L |   | 92   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 8.39       |               | ug/L |   | 84   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 92            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 92            |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 86            |               | 80 - 120 |

TestAmerica Canton

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

### GC/MS VOA

#### Analysis Batch: 253479

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71139-1      | GW-101916-TW-001   | Total/NA  | Water  | 8260B  |            |
| 240-71139-2      | GW-101916-TW-002   | Total/NA  | Water  | 8260B  |            |
| 240-71139-3      | GW-101916-TW-003   | Total/NA  | Water  | 8260B  |            |
| 240-71139-4      | GW-101916-TW-004   | Total/NA  | Water  | 8260B  |            |
| 240-71139-5      | GW-101916-TW-005   | Total/NA  | Water  | 8260B  |            |
| 240-71139-6      | TB-101916-TW-001   | Total/NA  | Water  | 8260B  |            |
| MB 240-253479/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253479/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |



# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

**Client Sample ID: GW-101916-TW-001**

**Date Collected: 10/19/16 16:30**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253479       | 10/28/16 16:19       | LRW     | TAL CAN |

**Client Sample ID: GW-101916-TW-002**

**Date Collected: 10/20/16 09:40**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2.5             | 253479       | 10/28/16 16:41       | LRW     | TAL CAN |

**Client Sample ID: GW-101916-TW-003**

**Date Collected: 10/20/16 11:20**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 100             | 253479       | 10/28/16 17:04       | LRW     | TAL CAN |

**Client Sample ID: GW-101916-TW-004**

**Date Collected: 10/20/16 13:20**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 250             | 253479       | 10/28/16 17:26       | LRW     | TAL CAN |

**Client Sample ID: GW-101916-TW-005**

**Date Collected: 10/20/16 14:50**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 253479       | 10/28/16 17:49       | LRW     | TAL CAN |

**Client Sample ID: TB-101916-TW-001**

**Date Collected: 10/20/16 00:00**

**Date Received: 10/21/16 13:10**

**Lab Sample ID: 240-71139-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253479       | 10/28/16 18:11       | LRW     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71139-2

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

36/C40

## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                              |  |                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Anderson<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Carrier Tracking No(s): FedEx<br>Job #: 017302-707-64016                                                                                                                                                                                                           |  | COC No: 240-37918-16623.3<br>Page: 8 of 8<br>Page of 8: 1 of 1                    |  |
| Due Date Requested:<br>TAT Requested (days): 2 week (5td)<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW #: 017302-707                                                                                                                                                                               |  | <b>Analysis Requested</b><br>8260B - VOCs A X<br>8260B - VOCs A X<br>9034 Calc - Sulfide CB N<br>2320B - Alkalinity, Carb and Bicarb D X<br>2340C - Hardness as calcium carbonate D X<br>9060 Dis - DOC S X<br>RSK 175 - Dissolved Gases S A<br>9060 - TOC S N<br>900.0 - 28D - Chloride, Sulfate, Nitrate, Nitrite X<br>6010B - Manganese X |  |                                                                                   |  |
| Sample Identification<br>GW-101916-TW-001<br>GW-102016-TW-002<br>GW-102016-TW-003<br>GW-102016-TW-004<br>GW-102016-TW-005<br>TB-102016-TW-001                                                                                                                                                                        |  | Sample Date<br>10/19/16<br>10/20/16<br>11/20/16<br>11/20/16<br>11/20/16<br>11/20/16                                                                                                                                                                                                                                                          |  | Sample Time<br>16:30<br>9:40<br>11:00<br>13:20<br>14:50<br>-                      |  |
| Matrix<br>(Water, Solid, On-waste, Oil, etc.)<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water                                                                                                                                                                                                                  |  | Sample Type<br>(C=Comp, G=Grab)<br>G<br>I<br>I<br>I<br>I<br>I                                                                                                                                                                                                                                                                                |  | Preservation Code:<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water          |  |
| Field Filled Sample (Yes or No)<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                            |  | Perform MS/MSD (Yes or No)<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                         |  | Total Number of Containers<br>3<br>17<br>17<br>17<br>17<br>17                     |  |
| Special Instructions/Note:<br>X-field filtered<br>Total<br>are retained longer than 1 month<br>Archive For Months                                                                                                                                                                                                    |  | Special Instructions/Note:<br>X-field filtered<br>Total<br>are retained longer than 1 month<br>Archive For Months                                                                                                                                                                                                                            |  |                                                                                   |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                            |  | Empty Kit Relinquished by:<br>Relinquished by: Racer Anderson<br>Relinquished by:<br>Relinquished by:<br>Custody Seals Intact: Custody Seal No.:<br>Δ Yes Δ No                                                                                                                                                                               |  | Date/Time: 10/20/16 18:55<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time: |  |
| Date/Time: 10/20/16 18:55<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:                                                                                                                                                                                                                                    |  | Date/Time: 10/20/16 18:55<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time:                                                                                                                                                                                                                                                            |  | Date/Time: 10/20/16 18:55<br>Date/Time:<br>Date/Time:<br>Date/Time:<br>Date/Time: |  |



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>               | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|-------------------------------------|-------------------------------|-------------------------------------------|--------------|
| GW-101916-TW-002        | 240-71139-N-2 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-002        | 240-71139-P-2 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-101916-TW-002        | 240-71139-Q-2 | Plastic 500ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-003        | 240-71139-N-3 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-003        | 240-71139-P-3 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-101916-TW-003        | 240-71139-Q-3 | Plastic 500ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-004        | 240-71139-N-4 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-004        | 240-71139-P-4 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-101916-TW-004        | 240-71139-Q-4 | Plastic 500ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-005        | 240-71139-N-5 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-101916-TW-005        | 240-71139-P-5 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-101916-TW-005        | 240-71139-Q-5 | Plastic 500ml - with Nitric Acid    | <2                            | _____                                     | _____        |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71221-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:16:55 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

### Qualifiers

#### GC VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### Metals

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| H         | Sample was prepped or analyzed beyond the specified holding time                                               |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |



## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

**Job ID: 240-71221-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-71221-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/22/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4° C and 3.2° C.

#### GC VOA

Method(s) RSK-175: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-253586.

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.

#### General Chemistry

Method(s) 300.0: The following samples were analyzed outside of analytical holding time due to instrument over pressure: GW-102116-TW-006 (240-71221-1), GW-102116-TW-007 (240-71221-2), GW-102116-TW-008 (240-71221-3), GW-102116-TW-009 (240-71221-4), GW-102116-TW-010 (240-71221-5) and GW-102116-TW-011 (240-71221-6).

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

| Method     | Method Description                                | Protocol | Laboratory |
|------------|---------------------------------------------------|----------|------------|
| RSK-175    | Dissolved Gases (GC)                              | RSK      | TAL CAN    |
| 6010B      | Metals (ICP)                                      | SW846    | TAL CAN    |
| 2320B-1997 | Alkalinity, Total                                 | SM       | TAL CAN    |
| 2340C-1997 | Hardness, Total                                   | SM       | TAL CAN    |
| 300.0      | Anions, Ion Chromatography                        | MCAWW    | TAL CAN    |
| 9034       | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Dissolved (DOC)                   | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Total (TOC)                       | SW846    | TAL CAN    |

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71221-1   | GW-102116-TW-006 | Water  | 10/21/16 09:35 | 10/22/16 10:00 |
| 240-71221-2   | GW-102116-TW-007 | Water  | 10/21/16 11:45 | 10/22/16 10:00 |
| 240-71221-3   | GW-102116-TW-008 | Water  | 10/21/16 11:45 | 10/22/16 10:00 |
| 240-71221-4   | GW-102116-TW-009 | Water  | 10/21/16 14:00 | 10/22/16 10:00 |
| 240-71221-5   | GW-102116-TW-010 | Water  | 10/21/16 16:30 | 10/22/16 10:00 |
| 240-71221-6   | GW-102116-TW-011 | Water  | 10/21/16 18:00 | 10/22/16 10:00 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Client Sample ID: GW-102116-TW-006

## Lab Sample ID: 240-71221-1

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 4.7    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 1.5    |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 130    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 330    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 450    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 43     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 68     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.0    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.0    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102116-TW-007

## Lab Sample ID: 240-71221-2

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 940    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 65     |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 2000   |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 870    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 480    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 650    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 120    |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Nitrate as N                    | 0.32   | H         | 0.10 | 0.035 | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 67     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 18     |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 16     |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102116-TW-008

## Lab Sample ID: 240-71221-3

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 980    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 68     |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 2100   |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 840    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 480    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 660    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 120    |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Nitrate as N                    | 0.32   | H         | 0.10 | 0.035 | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 65     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 17     |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 17     |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102116-TW-009

## Lab Sample ID: 240-71221-4

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 2.6    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 1.8    |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 0.48   | J         | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 18     |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 250    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 320    |           | 5.0  | 3.1   | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 7.9    |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Client Sample ID: GW-102116-TW-009 (Continued)

## Lab Sample ID: 240-71221-4

| Analyte                  | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-------|------|---------|---|--------|-----------|
| Nitrate as N             | 0.091  | J H       | 0.10 | 0.035 | mg/L | 1       |   | 300.0  | Total/NA  |
| Sulfate                  | 100    |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0  | Total/NA  |
| Total Organic Carbon     | 6.3    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060   | Total/NA  |
| Dissolved Organic Carbon | 6.4    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060   | Dissolved |

## Client Sample ID: GW-102116-TW-010

## Lab Sample ID: 240-71221-5

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 3.4    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 230    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 320    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 430    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 41     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 54     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 4.7    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 3.9    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102116-TW-011

## Lab Sample ID: 240-71221-6

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 96     |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 18     |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 83     |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 640    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 420    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 560    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 22     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 130    |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 2.3    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 2.4    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-102116-TW-006

Date Collected: 10/21/16 09:35

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-1

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 4.7       |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 17:48 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 17:48 | 1       |
| Ethylene              | 1.5       |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 17:48 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 79        |           | 76 - 121 |       |      |   |          | 10/30/16 17:48 | 1       |

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 940       |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 18:05 | 1       |
| Ethane                | 65        |           | 0.50     | 0.14  | ug/L |   |          | 10/30/16 18:05 | 1       |
| Ethylene              | 2000      |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 18:05 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 77        |           | 76 - 121 |       |      |   |          | 10/30/16 18:05 | 1       |

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 980       |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 18:22 | 1       |
| Ethane                | 68        |           | 0.50     | 0.14  | ug/L |   |          | 10/30/16 18:22 | 1       |
| Ethylene              | 2100      |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 18:22 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 78        |           | 76 - 121 |       |      |   |          | 10/30/16 18:22 | 1       |

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 2.6       |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 18:39 | 1       |
| Ethane                | 1.8       |           | 0.50     | 0.14  | ug/L |   |          | 10/30/16 18:39 | 1       |
| Ethylene              | 0.48      | J         | 0.50     | 0.13  | ug/L |   |          | 10/30/16 18:39 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 77        |           | 76 - 121 |       |      |   |          | 10/30/16 18:39 | 1       |

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 3.4       |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 18:56 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/30/16 18:56 | 1       |
| Ethylene              | 0.50      | U         | 0.50     | 0.13  | ug/L |   |          | 10/30/16 18:56 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 76        |           | 76 - 121 |       |      |   |          | 10/30/16 18:56 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 96        |           | 0.50     | 0.080 | ug/L |   |          | 10/30/16 19:13 | 1       |
| Ethane                | 18        |           | 0.50     | 0.14  | ug/L |   |          | 10/30/16 19:13 | 1       |
| Ethylene              | 83        |           | 0.50     | 0.13  | ug/L |   |          | 10/30/16 19:13 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 77        |           | 76 - 121 |       |      |   |          | 10/30/16 19:13 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-102116-TW-006

Date Collected: 10/21/16 09:35

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-1

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 130    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 16:44 | 1       |

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 870    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 16:49 | 1       |

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 840    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 16:53 | 1       |

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 18     |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 16:57 | 1       |

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 230    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 17:01 | 1       |

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 640    |           | 15 | 5.1 | ug/L | — | 10/25/16 14:00 | 10/26/16 17:14 | 1       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## General Chemistry

Client Sample ID: GW-102116-TW-006

Date Collected: 10/21/16 09:35

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-1

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 330    |           | 5.0  | 1.9   | mg/L |   |                | 10/31/16 17:08 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 10/31/16 17:08 | 1       |
| Hardness as calcium carbonate               | 450    |           | 25   | 16    | mg/L |   |                | 10/27/16 09:52 | 1       |
| Chloride                                    | 43     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 20:44 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 20:44 | 1       |
| Nitrate as N                                | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 20:44 | 1       |
| Sulfate                                     | 68     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 20:44 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 1.0    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 13:16 | 1       |

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 480    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:27 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:27 | 1       |
| Hardness as calcium carbonate               | 650    |           | 25   | 16    | mg/L |   |                | 10/27/16 10:00 | 1       |
| Chloride                                    | 120    |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 21:04 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 21:04 | 1       |
| Nitrate as N                                | 0.32   | H         | 0.10 | 0.035 | mg/L |   |                | 10/24/16 21:04 | 1       |
| Sulfate                                     | 67     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 21:04 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 18     |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 13:42 | 1       |

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 480    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:42 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:42 | 1       |
| Hardness as calcium carbonate               | 660    |           | 25   | 16    | mg/L |   |                | 10/27/16 10:08 | 1       |
| Chloride                                    | 120    |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 22:04 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 22:04 | 1       |
| Nitrate as N                                | 0.32   | H         | 0.10 | 0.035 | mg/L |   |                | 10/24/16 22:04 | 1       |
| Sulfate                                     | 65     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 22:04 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 17     |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 14:10 | 1       |

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 250    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:54 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 08:54 | 1       |
| Hardness as calcium carbonate               | 320    |           | 5.0  | 3.1   | mg/L |   |                | 10/27/16 10:16 | 1       |
| Chloride                                    | 7.9    |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 23:05 | 1       |
| Nitrite as N                                | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 23:05 | 1       |
| Nitrate as N                                | 0.091  | J H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 23:05 | 1       |
| Sulfate                                     | 100    |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 23:05 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## General Chemistry (Continued)

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 6.3    |           | 1.0 | 0.080 | mg/L |   |          | 10/26/16 15:24 | 1       |

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 320    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 09:16 | 1       |
| Carbonate Alkalinity as CaCO3   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 09:16 | 1       |
| Hardness as calcium carbonate   | 430    |           | 25   | 16    | mg/L |   |                | 10/27/16 10:24 | 1       |
| Chloride                        | 41     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 23:25 | 1       |
| Nitrite as N                    | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 23:25 | 1       |
| Nitrate as N                    | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 23:25 | 1       |
| Sulfate                         | 54     |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 23:25 | 1       |
| Sulfide                         | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon            | 4.7    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 14:40 | 1       |

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 420    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 09:31 | 1       |
| Carbonate Alkalinity as CaCO3   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 09:31 | 1       |
| Hardness as calcium carbonate   | 560    |           | 25   | 16    | mg/L |   |                | 10/27/16 10:40 | 1       |
| Chloride                        | 22     |           | 1.0  | 0.41  | mg/L |   |                | 10/24/16 23:45 | 1       |
| Nitrite as N                    | 0.10   | U H       | 0.10 | 0.038 | mg/L |   |                | 10/24/16 23:45 | 1       |
| Nitrate as N                    | 0.10   | U H       | 0.10 | 0.035 | mg/L |   |                | 10/24/16 23:45 | 1       |
| Sulfate                         | 130    |           | 1.0  | 0.13  | mg/L |   |                | 10/24/16 23:45 | 1       |
| Sulfide                         | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon            | 2.3    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 15:51 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## General Chemistry - Dissolved

Client Sample ID: GW-102116-TW-006

Date Collected: 10/21/16 09:35

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-1

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.0    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 09:18 | 1       |

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 16     |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 10:01 | 1       |

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 17     |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 10:29 | 1       |

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 6.4    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 10:58 | 1       |

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 3.9    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 11:26 | 1       |

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 2.4    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 11:52 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

| Percent Surrogate Recovery (Acceptance Limits) |                    |                          |
|------------------------------------------------|--------------------|--------------------------|
| Lab Sample ID                                  | Client Sample ID   | Trifluoroethane (76-121) |
| 240-71221-1                                    | GW-102116-TW-006   | 79                       |
| 240-71221-2                                    | GW-102116-TW-007   | 77                       |
| 240-71221-3                                    | GW-102116-TW-008   | 78                       |
| 240-71221-4                                    | GW-102116-TW-009   | 77                       |
| 240-71221-5                                    | GW-102116-TW-010   | 76                       |
| 240-71221-6                                    | GW-102116-TW-011   | 77                       |
| LCS 240-253586/5                               | Lab Control Sample | 87                       |
| MB 240-253586/4                                | Method Blank       | 90                       |

### Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-253586/4

Matrix: Water

Analysis Batch: 253586

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Methane  | 0.50      | U            | 0.50 | 0.080 | ug/L |   |          | 10/30/16 14:39 | 1       |
| Ethane   | 0.50      | U            | 0.50 | 0.14  | ug/L |   |          | 10/30/16 14:39 | 1       |
| Ethylene | 0.50      | U            | 0.50 | 0.13  | ug/L |   |          | 10/30/16 14:39 | 1       |

| Surrogate             | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,1,1-Trifluoroethane | 90           |              | 76 - 121 |          | 10/30/16 14:39 | 1       |

Lab Sample ID: LCS 240-253586/5

Matrix: Water

Analysis Batch: 253586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Methane  | 199         | 191        |               | ug/L |   | 96   | 80 - 130     |
| Ethane   | 374         | 372        |               | ug/L |   | 100  | 76 - 131     |
| Ethylene | 349         | 345        |               | ug/L |   | 99   | 79 - 132     |

| Surrogate             | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------|---------------|---------------|----------|
| 1,1,1-Trifluoroethane | 87            |               | 76 - 121 |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-252889/1-A

Matrix: Water

Analysis Batch: 253099

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 252889

| Analyte   | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15        | U            | 15 | 5.1 | ug/L |   | 10/25/16 14:00 | 10/26/16 12:07 | 1       |

Lab Sample ID: LCS 240-252889/2-A

Matrix: Water

Analysis Batch: 253099

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 252889

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 500         | 530        |               | ug/L |   | 106  | 80 - 120     |

## Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-253787/5

Matrix: Water

Analysis Batch: 253787

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                         | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 10/31/16 14:23 | 1       |
| Carbonate Alkalinity as CaCO3   | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 10/31/16 14:23 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: MB 240-253875/5

Matrix: Water

Analysis Batch: 253875

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                                     | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 11/01/16 08:07 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0          | U               | 5.0 | 1.9 | mg/L |   |          | 11/01/16 08:07 | 1       |

Lab Sample ID: 240-71221-4 DU

Matrix: Water

Analysis Batch: 253875

Client Sample ID: GW-102116-TW-009

Prep Type: Total/NA

| Analyte                                     | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|---------------------------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 250              |                     | 250          |                 | mg/L |   | 1   | 20           |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0              | U                   | 5.0          | U               | mg/L |   | NC  | 20           |

## Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-253223/1

Matrix: Water

Analysis Batch: 253223

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                       | MB<br>Result | MB<br>Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------------|-----------------|-----|-----|------|---|----------|----------------|---------|
| Hardness as calcium carbonate | 5.0          | U               | 5.0 | 3.1 | mg/L |   |          | 10/27/16 08:32 | 1       |

Lab Sample ID: LCS 240-253223/2

Matrix: Water

Analysis Batch: 253223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                       | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Hardness as calcium carbonate | 170            | 166           |                  | mg/L |   | 98   | 80 - 120        |

Lab Sample ID: 240-71221-6 DU

Matrix: Water

Analysis Batch: 253223

Client Sample ID: GW-102116-TW-011

Prep Type: Total/NA

| Analyte                       | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|-------------------------------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Hardness as calcium carbonate | 560              |                     | 560          |                 | mg/L |   | 0   | 20           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-252807/3

Matrix: Water

Analysis Batch: 252807

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0          | U               | 1.0 | 0.41 | mg/L |   |          | 10/24/16 18:03 | 1       |
| Sulfate  | 1.0          | U               | 1.0 | 0.13 | mg/L |   |          | 10/24/16 18:03 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-252807/4

Matrix: Water

Analysis Batch: 252807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 49.1       |               | mg/L |   | 98   | 90 - 110     |
| Sulfate  | 50.0        | 50.8       |               | mg/L |   | 102  | 90 - 110     |

Lab Sample ID: 240-71221-3 MS

Matrix: Water

Analysis Batch: 252807

Client Sample ID: GW-102116-TW-008

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 120           |                  | 50.0        | 167       |              | mg/L |   | 98   | 80 - 120     |
| Sulfate  | 65            |                  | 50.0        | 120       |              | mg/L |   | 109  | 80 - 120     |

Lab Sample ID: 240-71221-3 MSD

Matrix: Water

Analysis Batch: 252807

Client Sample ID: GW-102116-TW-008

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 120           |                  | 50.0        | 166        |               | mg/L |   | 94   | 80 - 120     | 1   | 15        |
| Sulfate  | 65            |                  | 50.0        | 117        |               | mg/L |   | 103  | 80 - 120     | 2   | 15        |

Lab Sample ID: MB 240-252808/3

Matrix: Water

Analysis Batch: 252808

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.10      | U            | 0.10 | 0.038 | mg/L |   |          | 10/24/16 18:03 | 1       |
| Nitrate as N | 0.10      | U            | 0.10 | 0.035 | mg/L |   |          | 10/24/16 18:03 | 1       |

Lab Sample ID: LCS 240-252808/4

Matrix: Water

Analysis Batch: 252808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrite as N | 2.50        | 2.49       |               | mg/L |   | 100  | 90 - 110     |
| Nitrate as N | 2.50        | 2.59       |               | mg/L |   | 104  | 90 - 110     |

Lab Sample ID: 240-71221-3 MS

Matrix: Water

Analysis Batch: 252808

Client Sample ID: GW-102116-TW-008

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrite as N | 0.10          | U H              | 2.50        | 2.69      |              | mg/L |   | 108  | 80 - 120     |
| Nitrate as N | 0.32          | H                | 2.50        | 3.21      |              | mg/L |   | 116  | 80 - 120     |

Lab Sample ID: 240-71221-3 MSD

Matrix: Water

Analysis Batch: 252808

Client Sample ID: GW-102116-TW-008

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrite as N | 0.10          | U H              | 2.50        | 2.67       |               | mg/L |   | 107  | 80 - 120     | 1   | 15        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-71221-3 MSD

Matrix: Water

Analysis Batch: 252808

Client Sample ID: GW-102116-TW-008

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrate as N | 0.32          | H                | 2.50        | 3.05       |               | mg/L |   | 109  | 80 - 120     | 5   | 15        |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-253036/1-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Sulfide | 3.0       | U            | 3.0 | 0.94 | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |

Lab Sample ID: LCS 240-253036/2-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfide | 8.27        | 7.47       |               | mg/L |   | 90   | 70 - 120     |

Lab Sample ID: 240-71221-1 MS

Matrix: Water

Analysis Batch: 253109

Client Sample ID: GW-102116-TW-006

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfide | 3.0           | U                | 8.27        | 5.87      |              | mg/L |   | 71   | 32 - 130     |

Lab Sample ID: 240-71221-1 MSD

Matrix: Water

Analysis Batch: 253109

Client Sample ID: GW-102116-TW-006

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfide | 3.0           | U                | 8.27        | 6.27       |               | mg/L |   | 76   | 32 - 130     | 7   | 30        |

## Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-253193/4

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 10/26/16 12:07 | 1       |

Lab Sample ID: LCS 240-253193/6

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 46.3        | 46.3       |               | mg/L |   | 100  | 80 - 120     |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LLCS 240-253193/5

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Organic Carbon | 4.63        | 4.37        |                | mg/L |   | 94   | 88 - 115     |

## Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-253943/4

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Method Blank

Prep Type: Dissolved

| Analyte                  | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 11/01/16 06:48 | 1       |

Lab Sample ID: LCS 240-253943/6

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| Dissolved Organic Carbon | 46.3        | 47.3       |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: LLCS 240-253943/5

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Dissolved Organic Carbon | 4.63        | 4.54        |                | mg/L |   | 98   | 88 - 115     |

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## GC VOA

### Analysis Batch: 253586

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 240-71221-1      | GW-102116-TW-006   | Total/NA  | Water  | RSK-175 |            |
| 240-71221-2      | GW-102116-TW-007   | Total/NA  | Water  | RSK-175 |            |
| 240-71221-3      | GW-102116-TW-008   | Total/NA  | Water  | RSK-175 |            |
| 240-71221-4      | GW-102116-TW-009   | Total/NA  | Water  | RSK-175 |            |
| 240-71221-5      | GW-102116-TW-010   | Total/NA  | Water  | RSK-175 |            |
| 240-71221-6      | GW-102116-TW-011   | Total/NA  | Water  | RSK-175 |            |
| MB 240-253586/4  | Method Blank       | Total/NA  | Water  | RSK-175 |            |
| LCS 240-253586/5 | Lab Control Sample | Total/NA  | Water  | RSK-175 |            |

## Metals

### Prep Batch: 252889

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71221-1        | GW-102116-TW-006   | Dissolved         | Water  | 3005A  |            |
| 240-71221-2        | GW-102116-TW-007   | Dissolved         | Water  | 3005A  |            |
| 240-71221-3        | GW-102116-TW-008   | Dissolved         | Water  | 3005A  |            |
| 240-71221-4        | GW-102116-TW-009   | Dissolved         | Water  | 3005A  |            |
| 240-71221-5        | GW-102116-TW-010   | Dissolved         | Water  | 3005A  |            |
| 240-71221-6        | GW-102116-TW-011   | Dissolved         | Water  | 3005A  |            |
| MB 240-252889/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-252889/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |

### Analysis Batch: 253099

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71221-1        | GW-102116-TW-006   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71221-2        | GW-102116-TW-007   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71221-3        | GW-102116-TW-008   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71221-4        | GW-102116-TW-009   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71221-5        | GW-102116-TW-010   | Dissolved         | Water  | 6010B  | 252889     |
| 240-71221-6        | GW-102116-TW-011   | Dissolved         | Water  | 6010B  | 252889     |
| MB 240-252889/1-A  | Method Blank       | Total Recoverable | Water  | 6010B  | 252889     |
| LCS 240-252889/2-A | Lab Control Sample | Total Recoverable | Water  | 6010B  | 252889     |

## General Chemistry

### Analysis Batch: 252807

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1      | GW-102116-TW-006   | Total/NA  | Water  | 300.0  |            |
| 240-71221-2      | GW-102116-TW-007   | Total/NA  | Water  | 300.0  |            |
| 240-71221-3      | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |
| 240-71221-4      | GW-102116-TW-009   | Total/NA  | Water  | 300.0  |            |
| 240-71221-5      | GW-102116-TW-010   | Total/NA  | Water  | 300.0  |            |
| 240-71221-6      | GW-102116-TW-011   | Total/NA  | Water  | 300.0  |            |
| MB 240-252807/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252807/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71221-3 MS   | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |
| 240-71221-3 MSD  | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## General Chemistry (Continued)

### Analysis Batch: 252808

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1      | GW-102116-TW-006   | Total/NA  | Water  | 300.0  |            |
| 240-71221-2      | GW-102116-TW-007   | Total/NA  | Water  | 300.0  |            |
| 240-71221-3      | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |
| 240-71221-4      | GW-102116-TW-009   | Total/NA  | Water  | 300.0  |            |
| 240-71221-5      | GW-102116-TW-010   | Total/NA  | Water  | 300.0  |            |
| 240-71221-6      | GW-102116-TW-011   | Total/NA  | Water  | 300.0  |            |
| MB 240-252808/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252808/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71221-3 MS   | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |
| 240-71221-3 MSD  | GW-102116-TW-008   | Total/NA  | Water  | 300.0  |            |

### Prep Batch: 253036

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1        | GW-102116-TW-006   | Total/NA  | Water  | 9030B  |            |
| 240-71221-2        | GW-102116-TW-007   | Total/NA  | Water  | 9030B  |            |
| 240-71221-3        | GW-102116-TW-008   | Total/NA  | Water  | 9030B  |            |
| 240-71221-4        | GW-102116-TW-009   | Total/NA  | Water  | 9030B  |            |
| 240-71221-5        | GW-102116-TW-010   | Total/NA  | Water  | 9030B  |            |
| 240-71221-6        | GW-102116-TW-011   | Total/NA  | Water  | 9030B  |            |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9030B  |            |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9030B  |            |
| 240-71221-1 MS     | GW-102116-TW-006   | Total/NA  | Water  | 9030B  |            |
| 240-71221-1 MSD    | GW-102116-TW-006   | Total/NA  | Water  | 9030B  |            |

### Analysis Batch: 253109

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1        | GW-102116-TW-006   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-2        | GW-102116-TW-007   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-3        | GW-102116-TW-008   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-4        | GW-102116-TW-009   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-5        | GW-102116-TW-010   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-6        | GW-102116-TW-011   | Total/NA  | Water  | 9034   | 253036     |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9034   | 253036     |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-1 MS     | GW-102116-TW-006   | Total/NA  | Water  | 9034   | 253036     |
| 240-71221-1 MSD    | GW-102116-TW-006   | Total/NA  | Water  | 9034   | 253036     |

### Analysis Batch: 253193

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1       | GW-102116-TW-006   | Total/NA  | Water  | 9060   |            |
| 240-71221-2       | GW-102116-TW-007   | Total/NA  | Water  | 9060   |            |
| 240-71221-3       | GW-102116-TW-008   | Total/NA  | Water  | 9060   |            |
| 240-71221-4       | GW-102116-TW-009   | Total/NA  | Water  | 9060   |            |
| 240-71221-5       | GW-102116-TW-010   | Total/NA  | Water  | 9060   |            |
| 240-71221-6       | GW-102116-TW-011   | Total/NA  | Water  | 9060   |            |
| MB 240-253193/4   | Method Blank       | Total/NA  | Water  | 9060   |            |
| LCS 240-253193/6  | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| LLCS 240-253193/5 | Lab Control Sample | Total/NA  | Water  | 9060   |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## General Chemistry (Continued)

### Analysis Batch: 253223

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 240-71221-1      | GW-102116-TW-006   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-2      | GW-102116-TW-007   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-3      | GW-102116-TW-008   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-4      | GW-102116-TW-009   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-5      | GW-102116-TW-010   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-6      | GW-102116-TW-011   | Total/NA  | Water  | 2340C-1997 |            |
| MB 240-253223/1  | Method Blank       | Total/NA  | Water  | 2340C-1997 |            |
| LCS 240-253223/2 | Lab Control Sample | Total/NA  | Water  | 2340C-1997 |            |
| 240-71221-6 DU   | GW-102116-TW-011   | Total/NA  | Water  | 2340C-1997 |            |

### Analysis Batch: 253787

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|-----------------|------------------|-----------|--------|------------|------------|
| 240-71221-1     | GW-102116-TW-006 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-253787/5 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |

### Analysis Batch: 253875

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|-----------------|------------------|-----------|--------|------------|------------|
| 240-71221-2     | GW-102116-TW-007 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71221-3     | GW-102116-TW-008 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71221-4     | GW-102116-TW-009 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71221-5     | GW-102116-TW-010 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71221-6     | GW-102116-TW-011 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-253875/5 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |
| 240-71221-4 DU  | GW-102116-TW-009 | Total/NA  | Water  | 2320B-1997 |            |

### Analysis Batch: 253943

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1       | GW-102116-TW-006   | Dissolved | Water  | 9060   |            |
| 240-71221-2       | GW-102116-TW-007   | Dissolved | Water  | 9060   |            |
| 240-71221-3       | GW-102116-TW-008   | Dissolved | Water  | 9060   |            |
| 240-71221-4       | GW-102116-TW-009   | Dissolved | Water  | 9060   |            |
| 240-71221-5       | GW-102116-TW-010   | Dissolved | Water  | 9060   |            |
| 240-71221-6       | GW-102116-TW-011   | Dissolved | Water  | 9060   |            |
| MB 240-253943/4   | Method Blank       | Dissolved | Water  | 9060   |            |
| LCS 240-253943/6  | Lab Control Sample | Dissolved | Water  | 9060   |            |
| LLCS 240-253943/5 | Lab Control Sample | Dissolved | Water  | 9060   |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

**Client Sample ID: GW-102116-TW-006**

**Date Collected: 10/21/16 09:35**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 17:48       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 16:44       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253787       | 10/31/16 17:08       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 09:52       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 20:44       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 20:44       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 09:18       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 13:16       | TPH     | TAL CAN |

**Client Sample ID: GW-102116-TW-007**

**Date Collected: 10/21/16 11:45**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 18:05       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 16:49       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253875       | 11/01/16 08:27       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 10:00       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 21:04       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 21:04       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 10:01       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 13:42       | TPH     | TAL CAN |

**Client Sample ID: GW-102116-TW-008**

**Date Collected: 10/21/16 11:45**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 18:22       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 16:53       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253875       | 11/01/16 08:42       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 10:08       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 22:04       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 22:04       | LCN     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

**Client Sample ID: GW-102116-TW-008**

**Lab Sample ID: 240-71221-3**

**Date Collected: 10/21/16 11:45**

**Matrix: Water**

**Date Received: 10/22/16 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 10:29       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 14:10       | TPH     | TAL CAN |

**Client Sample ID: GW-102116-TW-009**

**Lab Sample ID: 240-71221-4**

**Date Collected: 10/21/16 14:00**

**Matrix: Water**

**Date Received: 10/22/16 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 18:39       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 16:57       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253875       | 11/01/16 08:54       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 10:16       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 23:05       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 23:05       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 10:58       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 15:24       | TPH     | TAL CAN |

**Client Sample ID: GW-102116-TW-010**

**Lab Sample ID: 240-71221-5**

**Date Collected: 10/21/16 16:30**

**Matrix: Water**

**Date Received: 10/22/16 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 18:56       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 17:01       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253875       | 11/01/16 09:16       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 10:24       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 23:25       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 23:25       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 11:26       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 14:40       | TPH     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

**Client Sample ID: GW-102116-TW-011**

**Lab Sample ID: 240-71221-6**

**Date Collected: 10/21/16 18:00**

**Matrix: Water**

**Date Received: 10/22/16 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253586       | 10/30/16 19:13       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 252889       | 10/25/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253099       | 10/26/16 17:14       | KLC     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 253875       | 11/01/16 09:31       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 10:40       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252807       | 10/24/16 23:45       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252808       | 10/24/16 23:45       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 11:52       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 15:51       | TPH     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



28/C3.2

4101 Shuffel Street NW

North Canton OH 44720

Phone (330) 497-9396 Fax (330) 497-0772

28/C3.2

## Chain of Custody Record

TestAmerica

## THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

**Chain of Custody Record**

**TestAmerica Canton**  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                               |  |                                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State: NY, Zip: 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Carrier Tracking No(s): <b>FedEx</b><br>78472519185 |  | COC No: 240-37918-16623.9<br>Page: 9 of 9 / 07/1<br>Job #: 017302-107-6H/16 |  |
| <b>Due Date Requested:</b><br>TAT Requested (days): 2 week (std)<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW #: 017302-107                                                                                                                                                                        |  | <b>Analysis Requested</b>                                                                                                     |  |                                                                             |  |
| <b>Sample Identification</b>                                                                                                                                                                                                                                                                                         |  | <b>Field Filtered Sample (Yes or No)</b>                                                                                      |  |                                                                             |  |
| Sample Date: 21-Oct-16<br>Sample Time: 14:00<br>Sample Type (C=Comp, G=grab): G<br>Matrix (W=water, S=solid, O=soil, BI=BI-Tissue, A=Air): Water                                                                                                                                                                     |  | Perform MS/MSD (Yes or No)                                                                                                    |  |                                                                             |  |
| Sample Date: 21-Oct-16<br>Sample Time: 16:30<br>Sample Type (C=Comp, G=grab): G<br>Matrix (W=water, S=solid, O=soil, BI=BI-Tissue, A=Air): Water                                                                                                                                                                     |  | 8260B - VOCs                                                                                                                  |  |                                                                             |  |
| Sample Date: 21-Oct-16<br>Sample Time: 18:00<br>Sample Type (C=Comp, G=grab): G<br>Matrix (W=water, S=solid, O=soil, BI=BI-Tissue, A=Air): Water                                                                                                                                                                     |  | 8260B - VOCs                                                                                                                  |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 9034 Calc. Sulfide                                                                                                            |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 2320B - Alkalinity, Carb and Bicarb                                                                                           |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 2340C - Hardness as calcium carbonate                                                                                         |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 9060 Diss. DOC                                                                                                                |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | RSK_175 - Dissolved Gases                                                                                                     |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 9060 - TOC                                                                                                                    |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 300.0_28D - Chloride, Sulfate, Nitrate, Nitrite                                                                               |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | 6010B - Manganese                                                                                                             |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | Total Number of Containers                                                                                                    |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | Special Instructions/Note:                                                                                                    |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | x field filtered                                                                                                              |  |                                                                             |  |
|                                                                                                                                                                                                                                                                                                                      |  | Total                                                                                                                         |  |                                                                             |  |

**Possible Hazard Identification**

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

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

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

☐ Return To Client
 ☐ Disposal By Lab
 ☐ Archive For Months

Special Instructions/QC Requirements:

|                                                                                                                   |  |                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|
| <b>Empty Kit Relinquished by:</b><br>Relinquished by: Julie Witmaier<br>Date/Time: 10/20/16 19:50<br>Company: GHD |  | <b>Method of Shipment: FedEx</b><br>Date/Time: 10/22/16 1600<br>Company: TAC |  |
| Relinquished by:                                                                                                  |  | Date/Time:                                                                   |  |
| Relinquished by:                                                                                                  |  | Date/Time:                                                                   |  |
| Relinquished by:                                                                                                  |  | Date/Time:                                                                   |  |
| Custody Seal's Intact:<br>Yes <input type="checkbox"/> No <input type="checkbox"/>                                |  | Cooler Temperature(s) °C and Other Remarks:                                  |  |





: 71221

[illegible]

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>               | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|-------------------------------------|-------------------------------|-------------------------------------------|--------------|
| HW-102116-TW-006        | 240-71221-N-1 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-006        | 240-71221-P-1 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-006        | 240-71221-Q-1 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-N-2 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-P-2 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-Q-2 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-N-3 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-P-3 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-Q-3 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-N-4 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-P-4 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-Q-4 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-N-5 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-P-5 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-Q-5 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-N-6 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-P-6 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-Q-6 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71221-2

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 4:02:30 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

Review your project  
results through

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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |



# Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

**Job ID: 240-71221-2**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-71221-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/22/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4° C and 3.2° C.

#### GC/MS VOA

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.

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.

Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71221-1   | GW-102116-TW-006 | Water  | 10/21/16 09:35 | 10/22/16 10:00 |
| 240-71221-2   | GW-102116-TW-007 | Water  | 10/21/16 11:45 | 10/22/16 10:00 |
| 240-71221-3   | GW-102116-TW-008 | Water  | 10/21/16 11:45 | 10/22/16 10:00 |
| 240-71221-4   | GW-102116-TW-009 | Water  | 10/21/16 14:00 | 10/22/16 10:00 |
| 240-71221-5   | GW-102116-TW-010 | Water  | 10/21/16 16:30 | 10/22/16 10:00 |
| 240-71221-6   | GW-102116-TW-011 | Water  | 10/21/16 18:00 | 10/22/16 10:00 |
| 240-71221-7   | TB-102116-TW-002 | Water  | 10/21/16 00:00 | 10/22/16 10:00 |
| 240-71221-8   | EB-102116-TW-001 | Water  | 10/21/16 17:10 | 10/22/16 10:00 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

## Client Sample ID: GW-102116-TW-006

## Lab Sample ID: 240-71221-1

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 2100   |           | 100 | 30  | ug/L | 100     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 85     | J         | 100 | 29  | ug/L | 100     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 150    |           | 100 | 45  | ug/L | 100     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102116-TW-007

## Lab Sample ID: 240-71221-2

| Analyte                 | Result | Qualifier | RL   | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane      | 430    | J         | 710  | 180 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Bromoform               | 500    | J         | 710  | 310 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene  | 18000  |           | 710  | 210 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| cis-1,3-Dichloropropene | 390    | J         | 710  | 190 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Ethylbenzene            | 760    |           | 710  | 190 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Styrene                 | 160    | J         | 710  | 160 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Toluene                 | 2000   |           | 710  | 160 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Vinyl chloride          | 3400   |           | 710  | 320 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Xylenes, Total          | 1900   |           | 1400 | 170 | ug/L | 714.29  |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102116-TW-008

## Lab Sample ID: 240-71221-3

| Analyte                | Result | Qualifier | RL   | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 430    | J         | 710  | 180 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 18000  |           | 710  | 210 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Ethylbenzene           | 690    | J         | 710  | 190 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Toluene                | 1900   |           | 710  | 160 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Vinyl chloride         | 3400   |           | 710  | 320 | ug/L | 714.29  |   | 8260B  | Total/NA  |
| Xylenes, Total         | 1700   |           | 1400 | 170 | ug/L | 714.29  |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102116-TW-009

## Lab Sample ID: 240-71221-4

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane  | 370    |           | 100 | 23  | ug/L | 100     |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 53     | J         | 100 | 25  | ug/L | 100     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 1700   |           | 100 | 30  | ug/L | 100     |   | 8260B  | Total/NA  |
| Trichloroethene        | 2500   |           | 100 | 33  | ug/L | 100     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102116-TW-010

## Lab Sample ID: 240-71221-5

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Trichloroethene | 0.75   | J         | 1.0 | 0.33 | ug/L | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102116-TW-011

## Lab Sample ID: 240-71221-6

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4300   |           | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| Trichloroethene        | 390    |           | 200 | 66  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 1300   |           | 200 | 90  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: TB-102116-TW-002

## Lab Sample ID: 240-71221-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

**Client Sample ID: EB-102116-TW-001**

**Lab Sample ID: 240-71221-8**

| Analyte         | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Trichloroethene | 0.93   | J         | 1.0 | 0.33 | ug/L | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-006

Date Collected: 10/21/16 09:35

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-1

Matrix: Water

| Analyte                         | Result      | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane           | 100         | U         | 100  | 23  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,1,2,2-Tetrachloroethane       | 100         | U         | 100  | 32  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,1,2-Trichloroethane           | 100         | U         | 100  | 34  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,1-Dichloroethane              | 100         | U         | 100  | 25  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,1-Dichloroethene              | 100         | U         | 100  | 27  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,2-Dichloroethane              | 100         | U         | 100  | 30  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 1,2-Dichloropropane             | 100         | U         | 100  | 30  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 2-Hexanone                      | 1000        | U         | 1000 | 120 | ug/L |   |          | 10/31/16 13:43 | 100     |
| Acetone                         | 1000        | U         | 1000 | 180 | ug/L |   |          | 10/31/16 13:43 | 100     |
| Benzene                         | 100         | U         | 100  | 28  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Bromoform                       | 100         | U         | 100  | 43  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Bromomethane                    | 100         | U         | 100  | 42  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Carbon disulfide                | 100         | U         | 100  | 34  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Carbon tetrachloride            | 100         | U         | 100  | 35  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Chlorobenzene                   | 100         | U         | 100  | 32  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Chloroethane                    | 100         | U         | 100  | 41  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Chloroform                      | 100         | U         | 100  | 31  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Chloromethane                   | 100         | U         | 100  | 43  | ug/L |   |          | 10/31/16 13:43 | 100     |
| <b>cis-1,2-Dichloroethene</b>   | <b>2100</b> |           | 100  | 30  | ug/L |   |          | 10/31/16 13:43 | 100     |
| cis-1,3-Dichloropropene         | 100         | U         | 100  | 26  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Dichlorobromomethane            | 100         | U         | 100  | 30  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Ethylbenzene                    | 100         | U         | 100  | 26  | ug/L |   |          | 10/31/16 13:43 | 100     |
| 2-Butanone (MEK)                | 1000        | U         | 1000 | 100 | ug/L |   |          | 10/31/16 13:43 | 100     |
| 4-Methyl-2-pentanone (MIBK)     | 1000        | U         | 1000 | 71  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Methylene Chloride              | 100         | U         | 100  | 53  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Styrene                         | 100         | U         | 100  | 23  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Tetrachloroethene               | 100         | U         | 100  | 30  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Toluene                         | 100         | U         | 100  | 23  | ug/L |   |          | 10/31/16 13:43 | 100     |
| <b>trans-1,2-Dichloroethene</b> | <b>85 J</b> |           | 100  | 29  | ug/L |   |          | 10/31/16 13:43 | 100     |
| trans-1,3-Dichloropropene       | 100         | U         | 100  | 31  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Trichloroethene                 | 100         | U         | 100  | 33  | ug/L |   |          | 10/31/16 13:43 | 100     |
| <b>Vinyl chloride</b>           | <b>150</b>  |           | 100  | 45  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Xylenes, Total                  | 200         | U         | 200  | 24  | ug/L |   |          | 10/31/16 13:43 | 100     |
| Chlorodibromomethane            | 100         | U         | 100  | 25  | ug/L |   |          | 10/31/16 13:43 | 100     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |          | 10/31/16 13:43 | 100     |
| 4-Bromofluorobenzene (Surr)  | 108       |           | 73 - 120 |          | 10/31/16 13:43 | 100     |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |          | 10/31/16 13:43 | 100     |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 10/31/16 13:43 | 100     |

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte                   | Result       | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 710          | U         | 710 | 160 | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 1,1,2,2-Tetrachloroethane | 710          | U         | 710 | 230 | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 1,1,2-Trichloroethane     | 710          | U         | 710 | 240 | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| <b>1,1-Dichloroethane</b> | <b>430 J</b> |           | 710 | 180 | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 1,1-Dichloroethene        | 710          | U         | 710 | 190 | ug/L |   |          | 10/31/16 14:50 | 714.29  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-007

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 710       | U         | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 1,2-Dichloropropane          | 710       | U         | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 2-Hexanone                   | 7100      | U         | 7100     | 880  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Acetone                      | 7100      | U         | 7100     | 1300 | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Benzene                      | 710       | U         | 710      | 200  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Bromoform                    | 500       | J         | 710      | 310  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Bromomethane                 | 710       | U         | 710      | 300  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Carbon disulfide             | 710       | U         | 710      | 240  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Carbon tetrachloride         | 710       | U         | 710      | 250  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Chlorobenzene                | 710       | U         | 710      | 230  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Chloroethane                 | 710       | U         | 710      | 290  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Chloroform                   | 710       | U         | 710      | 220  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Chloromethane                | 710       | U         | 710      | 310  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| cis-1,2-Dichloroethene       | 18000     |           | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| cis-1,3-Dichloropropene      | 390       | J         | 710      | 190  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Dichlorobromomethane         | 710       | U         | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Ethylbenzene                 | 760       |           | 710      | 190  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 2-Butanone (MEK)             | 7100      | U         | 7100     | 730  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| 4-Methyl-2-pentanone (MIBK)  | 7100      | U         | 7100     | 510  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Methylene Chloride           | 710       | U         | 710      | 380  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Styrene                      | 160       | J         | 710      | 160  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Tetrachloroethene            | 710       | U         | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Toluene                      | 2000      |           | 710      | 160  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| trans-1,2-Dichloroethene     | 710       | U         | 710      | 210  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| trans-1,3-Dichloropropene    | 710       | U         | 710      | 220  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Trichloroethene              | 710       | U         | 710      | 240  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Vinyl chloride               | 3400      |           | 710      | 320  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Xylenes, Total               | 1900      |           | 1400     | 170  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Chlorodibromomethane         | 710       | U         | 710      | 180  | ug/L |   |          | 10/31/16 14:50 | 714.29  |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |      |      |   |          | 10/31/16 14:50 | 714.29  |
| 4-Bromofluorobenzene (Surr)  | 114       |           | 73 - 120 |      |      |   |          | 10/31/16 14:50 | 714.29  |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |      |      |   |          | 10/31/16 14:50 | 714.29  |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |      |      |   |          | 10/31/16 14:50 | 714.29  |

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 710    | U         | 710  | 160  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,1,2,2-Tetrachloroethane | 710    | U         | 710  | 230  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,1,2-Trichloroethane     | 710    | U         | 710  | 240  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,1-Dichloroethane        | 430    | J         | 710  | 180  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,1-Dichloroethene        | 710    | U         | 710  | 190  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,2-Dichloroethane        | 710    | U         | 710  | 210  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 1,2-Dichloropropane       | 710    | U         | 710  | 210  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 2-Hexanone                | 7100   | U         | 7100 | 880  | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Acetone                   | 7100   | U         | 7100 | 1300 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Benzene                   | 710    | U         | 710  | 200  | ug/L |   |          | 10/31/16 15:12 | 714.29  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-008

Date Collected: 10/21/16 11:45

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 710    | U         | 710  | 310 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Bromomethane                | 710    | U         | 710  | 300 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Carbon disulfide            | 710    | U         | 710  | 240 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Carbon tetrachloride        | 710    | U         | 710  | 250 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Chlorobenzene               | 710    | U         | 710  | 230 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Chloroethane                | 710    | U         | 710  | 290 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Chloroform                  | 710    | U         | 710  | 220 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Chloromethane               | 710    | U         | 710  | 310 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| cis-1,2-Dichloroethene      | 18000  |           | 710  | 210 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| cis-1,3-Dichloropropene     | 710    | U         | 710  | 190 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Dichlorobromomethane        | 710    | U         | 710  | 210 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Ethylbenzene                | 690    | J         | 710  | 190 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 2-Butanone (MEK)            | 7100   | U         | 7100 | 730 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| 4-Methyl-2-pentanone (MIBK) | 7100   | U         | 7100 | 510 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Methylene Chloride          | 710    | U         | 710  | 380 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Styrene                     | 710    | U         | 710  | 160 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Tetrachloroethene           | 710    | U         | 710  | 210 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Toluene                     | 1900   |           | 710  | 160 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| trans-1,2-Dichloroethene    | 710    | U         | 710  | 210 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| trans-1,3-Dichloropropene   | 710    | U         | 710  | 220 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Trichloroethene             | 710    | U         | 710  | 240 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Vinyl chloride              | 3400   |           | 710  | 320 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Xylenes, Total              | 1700   |           | 1400 | 170 | ug/L |   |          | 10/31/16 15:12 | 714.29  |
| Chlorodibromomethane        | 710    | U         | 710  | 180 | ug/L |   |          | 10/31/16 15:12 | 714.29  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 63 - 132 |          | 10/31/16 15:12 | 714.29  |
| 4-Bromofluorobenzene (Surr)  | 112       |           | 73 - 120 |          | 10/31/16 15:12 | 714.29  |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |          | 10/31/16 15:12 | 714.29  |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 10/31/16 15:12 | 714.29  |

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 370    |           | 100  | 23  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,1,2,2-Tetrachloroethane | 100    | U         | 100  | 32  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,1,2-Trichloroethane     | 100    | U         | 100  | 34  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,1-Dichloroethane        | 53     | J         | 100  | 25  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,1-Dichloroethene        | 100    | U         | 100  | 27  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,2-Dichloroethane        | 100    | U         | 100  | 30  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 1,2-Dichloropropane       | 100    | U         | 100  | 30  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 2-Hexanone                | 1000   | U         | 1000 | 120 | ug/L |   |          | 10/31/16 15:35 | 100     |
| Acetone                   | 1000   | U         | 1000 | 180 | ug/L |   |          | 10/31/16 15:35 | 100     |
| Benzene                   | 100    | U         | 100  | 28  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Bromoform                 | 100    | U         | 100  | 43  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Bromomethane              | 100    | U         | 100  | 42  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Carbon disulfide          | 100    | U         | 100  | 34  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Carbon tetrachloride      | 100    | U         | 100  | 35  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Chlorobenzene             | 100    | U         | 100  | 32  | ug/L |   |          | 10/31/16 15:35 | 100     |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-009

Date Collected: 10/21/16 14:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Chloroethane                | 100    | U         | 100  | 41  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Chloroform                  | 100    | U         | 100  | 31  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Chloromethane               | 100    | U         | 100  | 43  | ug/L |   |          | 10/31/16 15:35 | 100     |
| cis-1,2-Dichloroethene      | 1700   |           | 100  | 30  | ug/L |   |          | 10/31/16 15:35 | 100     |
| cis-1,3-Dichloropropene     | 100    | U         | 100  | 26  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Dichlorobromomethane        | 100    | U         | 100  | 30  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Ethylbenzene                | 100    | U         | 100  | 26  | ug/L |   |          | 10/31/16 15:35 | 100     |
| 2-Butanone (MEK)            | 1000   | U         | 1000 | 100 | ug/L |   |          | 10/31/16 15:35 | 100     |
| 4-Methyl-2-pentanone (MIBK) | 1000   | U         | 1000 | 71  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Methylene Chloride          | 100    | U         | 100  | 53  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Styrene                     | 100    | U         | 100  | 23  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Tetrachloroethene           | 100    | U         | 100  | 30  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Toluene                     | 100    | U         | 100  | 23  | ug/L |   |          | 10/31/16 15:35 | 100     |
| trans-1,2-Dichloroethene    | 100    | U         | 100  | 29  | ug/L |   |          | 10/31/16 15:35 | 100     |
| trans-1,3-Dichloropropene   | 100    | U         | 100  | 31  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Trichloroethene             | 2500   |           | 100  | 33  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Vinyl chloride              | 100    | U         | 100  | 45  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Xylenes, Total              | 200    | U         | 200  | 24  | ug/L |   |          | 10/31/16 15:35 | 100     |
| Chlorodibromomethane        | 100    | U         | 100  | 25  | ug/L |   |          | 10/31/16 15:35 | 100     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |          | 10/31/16 15:35 | 100     |
| 4-Bromofluorobenzene (Surr)  | 112       |           | 73 - 120 |          | 10/31/16 15:35 | 100     |
| Toluene-d8 (Surr)            | 105       |           | 73 - 124 |          | 10/31/16 15:35 | 100     |
| Dibromofluoromethane (Surr)  | 105       |           | 80 - 120 |          | 10/31/16 15:35 | 100     |

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 15:57 | 1       |
| Acetone                   | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 15:57 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Chloroethane              | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Chloroform                | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Chloromethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 15:57 | 1       |
| cis-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 15:57 | 1       |
| cis-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 15:57 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-010

Date Collected: 10/21/16 16:30

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 15:57 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 15:57 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 15:57 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 15:57 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Trichloroethene             | 0.75   | J         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 15:57 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 15:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 63 - 132 |          | 10/31/16 15:57 | 1       |
| 4-Bromofluorobenzene (Surr)  | 110       |           | 73 - 120 |          | 10/31/16 15:57 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |          | 10/31/16 15:57 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 80 - 120 |          | 10/31/16 15:57 | 1       |

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 200    | U         | 200  | 46  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,1,2,2-Tetrachloroethane   | 200    | U         | 200  | 64  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,1,2-Trichloroethane       | 200    | U         | 200  | 68  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,1-Dichloroethane          | 200    | U         | 200  | 50  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,1-Dichloroethene          | 200    | U         | 200  | 54  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,2-Dichloroethane          | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 1,2-Dichloropropane         | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 2-Hexanone                  | 2000   | U         | 2000 | 250 | ug/L |   |          | 10/31/16 16:20 | 200     |
| Acetone                     | 2000   | U         | 2000 | 350 | ug/L |   |          | 10/31/16 16:20 | 200     |
| Benzene                     | 200    | U         | 200  | 56  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Bromoform                   | 200    | U         | 200  | 86  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Bromomethane                | 200    | U         | 200  | 84  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 68  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 70  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 64  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Chloroethane                | 200    | U         | 200  | 82  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Chloroform                  | 200    | U         | 200  | 62  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Chloromethane               | 200    | U         | 200  | 86  | ug/L |   |          | 10/31/16 16:20 | 200     |
| cis-1,2-Dichloroethene      | 4300   |           | 200  | 60  | ug/L |   |          | 10/31/16 16:20 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 52  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 52  | ug/L |   |          | 10/31/16 16:20 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 200 | ug/L |   |          | 10/31/16 16:20 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 140 | ug/L |   |          | 10/31/16 16:20 | 200     |
| Methylene Chloride          | 200    | U         | 200  | 110 | ug/L |   |          | 10/31/16 16:20 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: GW-102116-TW-011

Date Collected: 10/21/16 18:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-6

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Styrene                      | 200       | U         | 200      | 46  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Tetrachloroethene            | 200       | U         | 200      | 60  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Toluene                      | 200       | U         | 200      | 46  | ug/L |   |          | 10/31/16 16:20 | 200     |
| trans-1,2-Dichloroethene     | 200       | U         | 200      | 58  | ug/L |   |          | 10/31/16 16:20 | 200     |
| trans-1,3-Dichloropropene    | 200       | U         | 200      | 62  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Trichloroethene              | 390       |           | 200      | 66  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Vinyl chloride               | 1300      |           | 200      | 90  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Xylenes, Total               | 400       | U         | 400      | 48  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Chlorodibromomethane         | 200       | U         | 200      | 50  | ug/L |   |          | 10/31/16 16:20 | 200     |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |     |      |   |          | 10/31/16 16:20 | 200     |
| 4-Bromofluorobenzene (Surr)  | 108       |           | 73 - 120 |     |      |   |          | 10/31/16 16:20 | 200     |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |     |      |   |          | 10/31/16 16:20 | 200     |
| Dibromofluoromethane (Surr)  | 102       |           | 80 - 120 |     |      |   |          | 10/31/16 16:20 | 200     |

Client Sample ID: TB-102116-TW-002

Date Collected: 10/21/16 00:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-7

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 16:42 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 16:42 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:42 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:42 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:42 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 16:42 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:42 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 16:42 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:42 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Client Sample ID: TB-102116-TW-002

Date Collected: 10/21/16 00:00

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-7

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Trichloroethene              | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.24 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 10/31/16 16:42 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |      |      |   |          | 10/31/16 16:42 | 1       |
| 4-Bromofluorobenzene (Surr)  | 109       |           | 73 - 120 |      |      |   |          | 10/31/16 16:42 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 73 - 124 |      |      |   |          | 10/31/16 16:42 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |      |      |   |          | 10/31/16 16:42 | 1       |

Client Sample ID: EB-102116-TW-001

Date Collected: 10/21/16 17:10

Date Received: 10/22/16 10:00

Lab Sample ID: 240-71221-8

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 17:05 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 17:05 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:05 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:05 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:05 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 17:05 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:05 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 17:05 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Trichloroethene             | 0.93   | J         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 17:05 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 17:05 | 1       |

TestAmerica Canton

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

| <i>Surrogate</i>             | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 98               |                  | 63 - 132      |                 | 10/31/16 17:05  | 1              |
| 4-Bromofluorobenzene (Surr)  | 109              |                  | 73 - 120      |                 | 10/31/16 17:05  | 1              |
| Toluene-d8 (Surr)            | 100              |                  | 73 - 124      |                 | 10/31/16 17:05  | 1              |
| Dibromofluoromethane (Surr)  | 106              |                  | 80 - 120      |                 | 10/31/16 17:05  | 1              |

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|--------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                  |                    | 12DCE<br>(63-132)                              | BFB<br>(73-120) | TOL<br>(73-124) | DBFM<br>(80-120) |
| 240-71221-1      | GW-102116-TW-006   | 96                                             | 108             | 101             | 104              |
| 240-71221-1 MS   | GW-102116-TW-006   | 94                                             | 115             | 105             | 106              |
| 240-71221-1 MSD  | GW-102116-TW-006   | 93                                             | 113             | 106             | 106              |
| 240-71221-2      | GW-102116-TW-007   | 95                                             | 114             | 101             | 105              |
| 240-71221-3      | GW-102116-TW-008   | 94                                             | 112             | 101             | 105              |
| 240-71221-4      | GW-102116-TW-009   | 96                                             | 112             | 105             | 105              |
| 240-71221-5      | GW-102116-TW-010   | 97                                             | 110             | 101             | 106              |
| 240-71221-6      | GW-102116-TW-011   | 96                                             | 108             | 101             | 102              |
| 240-71221-7      | TB-102116-TW-002   | 96                                             | 109             | 103             | 104              |
| 240-71221-8      | EB-102116-TW-001   | 98                                             | 109             | 100             | 106              |
| LCS 240-253665/4 | Lab Control Sample | 95                                             | 118             | 105             | 106              |
| MB 240-253665/7  | Method Blank       | 97                                             | 114             | 102             | 104              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Lab Sample ID: MB 240-253665/7

Matrix: Water

Analysis Batch: 253665

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 10/31/16 10:43 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 10/31/16 10:43 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 10:43 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 10:43 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 10:43 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 10/31/16 10:43 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 10:43 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/31/16 10:43 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 10/31/16 10:43 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 10:43 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97           |              | 63 - 132 |          | 10/31/16 10:43 | 1       |
| 4-Bromofluorobenzene (Surr)  | 114          |              | 73 - 120 |          | 10/31/16 10:43 | 1       |
| Toluene-d8 (Surr)            | 102          |              | 73 - 124 |          | 10/31/16 10:43 | 1       |
| Dibromofluoromethane (Surr)  | 104          |              | 80 - 120 |          | 10/31/16 10:43 | 1       |

Lab Sample ID: LCS 240-253665/4

Matrix: Water

Analysis Batch: 253665

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-Trichloroethane     | 10.0        | 11.1       |               | ug/L |   | 111  | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 7.34       |               | ug/L |   | 73   | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Lab Sample ID: LCS 240-253665/4

Matrix: Water

Analysis Batch: 253665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 9.01       |               | ug/L |   | 90   | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 8.78       |               | ug/L |   | 88   | 77 - 121     |
| 1,1-Dichloroethene          | 10.0        | 9.05       |               | ug/L |   | 90   | 70 - 141     |
| 1,2-Dichloroethane          | 10.0        | 8.76       |               | ug/L |   | 88   | 76 - 130     |
| 1,2-Dichloropropane         | 10.0        | 9.39       |               | ug/L |   | 94   | 79 - 121     |
| 2-Hexanone                  | 20.0        | 16.3       |               | ug/L |   | 82   | 56 - 124     |
| Acetone                     | 20.0        | 12.1       |               | ug/L |   | 60   | 46 - 120     |
| Benzene                     | 10.0        | 9.19       |               | ug/L |   | 92   | 80 - 120     |
| Bromoform                   | 10.0        | 9.50       |               | ug/L |   | 95   | 52 - 157     |
| Bromomethane                | 10.0        | 6.39       |               | ug/L |   | 64   | 24 - 160     |
| Carbon disulfide            | 10.0        | 8.94       |               | ug/L |   | 89   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 12.8       |               | ug/L |   | 128  | 69 - 149     |
| Chlorobenzene               | 10.0        | 9.22       |               | ug/L |   | 92   | 80 - 120     |
| Chloroethane                | 10.0        | 7.83       |               | ug/L |   | 78   | 24 - 147     |
| Chloroform                  | 10.0        | 9.23       |               | ug/L |   | 92   | 80 - 120     |
| Chloromethane               | 10.0        | 9.48       |               | ug/L |   | 95   | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 9.30       |               | ug/L |   | 93   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.73       |               | ug/L |   | 87   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 9.36       |               | ug/L |   | 94   | 76 - 125     |
| Ethylbenzene                | 10.0        | 9.46       |               | ug/L |   | 95   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 9.37       |               | ug/L |   | 94   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 15.5       |               | ug/L |   | 78   | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 17.9       |               | ug/L |   | 89   | 60 - 131     |
| Methylene Chloride          | 10.0        | 9.27       |               | ug/L |   | 93   | 68 - 136     |
| o-Xylene                    | 10.0        | 9.81       |               | ug/L |   | 98   | 80 - 120     |
| Styrene                     | 10.0        | 10.0       |               | ug/L |   | 100  | 80 - 120     |
| Tetrachloroethene           | 10.0        | 10.1       |               | ug/L |   | 101  | 80 - 123     |
| Toluene                     | 10.0        | 9.15       |               | ug/L |   | 92   | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 9.41       |               | ug/L |   | 94   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 8.11       |               | ug/L |   | 81   | 65 - 120     |
| Trichloroethene             | 10.0        | 9.90       |               | ug/L |   | 99   | 80 - 122     |
| Vinyl chloride              | 10.0        | 8.95       |               | ug/L |   | 89   | 60 - 129     |
| Xylenes, Total              | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 9.46       |               | ug/L |   | 95   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 95            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 118           |               | 73 - 120 |
| Toluene-d8 (Surr)            | 105           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 106           |               | 80 - 120 |

Lab Sample ID: 240-71221-1 MS

Matrix: Water

Analysis Batch: 253665

Client Sample ID: GW-102116-TW-006

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 100           | U                | 1000        | 1230      |              | ug/L |   | 123  | 55 - 150     |
| 1,1,2,2-Tetrachloroethane | 100           | U                | 1000        | 818       |              | ug/L |   | 82   | 48 - 134     |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Lab Sample ID: 240-71221-1 MS

Matrix: Water

Analysis Batch: 253665

Client Sample ID: GW-102116-TW-006

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 100           | U                | 1000        | 1010      |              | ug/L |   | 101  | 65 - 130     |
| 1,1-Dichloroethane          | 100           | U                | 1000        | 1010      |              | ug/L |   | 101  | 57 - 135     |
| 1,1-Dichloroethene          | 100           | U                | 1000        | 978       |              | ug/L |   | 98   | 50 - 156     |
| 1,2-Dichloroethane          | 100           | U                | 1000        | 996       |              | ug/L |   | 100  | 62 - 137     |
| 1,2-Dichloropropane         | 100           | U                | 1000        | 1070      |              | ug/L |   | 107  | 66 - 130     |
| 2-Hexanone                  | 1000          | U                | 2000        | 1790      |              | ug/L |   | 90   | 41 - 135     |
| Acetone                     | 1000          | U                | 2000        | 1290      |              | ug/L |   | 64   | 28 - 120     |
| Benzene                     | 100           | U                | 1000        | 1040      |              | ug/L |   | 104  | 67 - 126     |
| Bromoform                   | 100           | U                | 1000        | 1040      |              | ug/L |   | 104  | 40 - 149     |
| Bromomethane                | 100           | U                | 1000        | 577       |              | ug/L |   | 58   | 10 - 169     |
| Carbon disulfide            | 100           | U                | 1000        | 1020      |              | ug/L |   | 102  | 43 - 172     |
| Carbon tetrachloride        | 100           | U                | 1000        | 1360      |              | ug/L |   | 136  | 51 - 154     |
| Chlorobenzene               | 100           | U                | 1000        | 1080      |              | ug/L |   | 108  | 58 - 128     |
| Chloroethane                | 100           | U                | 1000        | 685       |              | ug/L |   | 68   | 10 - 162     |
| Chloroform                  | 100           | U                | 1000        | 1060      |              | ug/L |   | 106  | 67 - 133     |
| Chloromethane               | 100           | U                | 1000        | 925       |              | ug/L |   | 92   | 30 - 143     |
| cis-1,2-Dichloroethene      | 2100          |                  | 1000        | 3170      |              | ug/L |   | 106  | 64 - 134     |
| cis-1,3-Dichloropropene     | 100           | U                | 1000        | 1030      |              | ug/L |   | 103  | 58 - 120     |
| Dichlorobromomethane        | 100           | U                | 1000        | 1120      |              | ug/L |   | 112  | 64 - 127     |
| Ethylbenzene                | 100           | U                | 1000        | 1060      |              | ug/L |   | 106  | 66 - 123     |
| m-Xylene & p-Xylene         | 200           | U                | 1000        | 1050      |              | ug/L |   | 105  | 58 - 127     |
| 2-Butanone (MEK)            | 1000          | U                | 2000        | 1620      |              | ug/L |   | 81   | 38 - 123     |
| 4-Methyl-2-pentanone (MIBK) | 1000          | U                | 2000        | 1930      |              | ug/L |   | 97   | 43 - 143     |
| Methylene Chloride          | 100           | U                | 1000        | 1070      |              | ug/L |   | 107  | 48 - 138     |
| o-Xylene                    | 100           | U                | 1000        | 1100      |              | ug/L |   | 110  | 61 - 126     |
| Styrene                     | 100           | U                | 1000        | 1160      |              | ug/L |   | 116  | 62 - 131     |
| Tetrachloroethene           | 100           | U                | 1000        | 1060      |              | ug/L |   | 106  | 54 - 138     |
| Toluene                     | 100           | U                | 1000        | 1040      |              | ug/L |   | 104  | 63 - 130     |
| trans-1,2-Dichloroethene    | 85            | J                | 1000        | 1160      |              | ug/L |   | 107  | 70 - 137     |
| trans-1,3-Dichloropropene   | 100           | U                | 1000        | 924       |              | ug/L |   | 92   | 48 - 120     |
| Trichloroethene             | 100           | U                | 1000        | 1110      |              | ug/L |   | 111  | 58 - 139     |
| Vinyl chloride              | 150           |                  | 1000        | 912       |              | ug/L |   | 77   | 38 - 147     |
| Xylenes, Total              | 200           | U                | 2000        | 2150      |              | ug/L |   | 108  | 60 - 126     |
| Chlorodibromomethane        | 100           | U                | 1000        | 1110      |              | ug/L |   | 111  | 56 - 132     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94           |              | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 115          |              | 73 - 120 |
| Toluene-d8 (Surr)            | 105          |              | 73 - 124 |
| Dibromofluoromethane (Surr)  | 106          |              | 80 - 120 |

Lab Sample ID: 240-71221-1 MSD

Matrix: Water

Analysis Batch: 253665

Client Sample ID: GW-102116-TW-006

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-Trichloroethane     | 100           | U                | 1000        | 1310       |               | ug/L |   | 131  | 55 - 150     | 6   | 35        |
| 1,1,2,2-Tetrachloroethane | 100           | U                | 1000        | 867        |               | ug/L |   | 87   | 48 - 134     | 6   | 35        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

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

Lab Sample ID: 240-71221-1 MSD

Matrix: Water

Analysis Batch: 253665

Client Sample ID: GW-102116-TW-006

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,2-Trichloroethane       | 100           | U                | 1000        | 1020       |               | ug/L |   | 102  | 65 - 130     | 2   | 35        |
| 1,1-Dichloroethane          | 100           | U                | 1000        | 1030       |               | ug/L |   | 103  | 57 - 135     | 2   | 35        |
| 1,1-Dichloroethene          | 100           | U                | 1000        | 1050       |               | ug/L |   | 105  | 50 - 156     | 7   | 35        |
| 1,2-Dichloroethane          | 100           | U                | 1000        | 991        |               | ug/L |   | 99   | 62 - 137     | 1   | 35        |
| 1,2-Dichloropropane         | 100           | U                | 1000        | 1090       |               | ug/L |   | 109  | 66 - 130     | 1   | 35        |
| 2-Hexanone                  | 1000          | U                | 2000        | 1730       |               | ug/L |   | 87   | 41 - 135     | 3   | 35        |
| Acetone                     | 1000          | U                | 2000        | 1020       |               | ug/L |   | 51   | 28 - 120     | 23  | 35        |
| Benzene                     | 100           | U                | 1000        | 1050       |               | ug/L |   | 105  | 67 - 126     | 1   | 31        |
| Bromoform                   | 100           | U                | 1000        | 951        |               | ug/L |   | 95   | 40 - 149     | 9   | 35        |
| Bromomethane                | 100           | U                | 1000        | 691        |               | ug/L |   | 69   | 10 - 169     | 18  | 35        |
| Carbon disulfide            | 100           | U                | 1000        | 1070       |               | ug/L |   | 107  | 43 - 172     | 5   | 35        |
| Carbon tetrachloride        | 100           | U                | 1000        | 1480       |               | ug/L |   | 148  | 51 - 154     | 8   | 35        |
| Chlorobenzene               | 100           | U                | 1000        | 1090       |               | ug/L |   | 109  | 58 - 128     | 0   | 35        |
| Chloroethane                | 100           | U                | 1000        | 794        |               | ug/L |   | 79   | 10 - 162     | 15  | 35        |
| Chloroform                  | 100           | U                | 1000        | 1080       |               | ug/L |   | 108  | 67 - 133     | 1   | 35        |
| Chloromethane               | 100           | U                | 1000        | 932        |               | ug/L |   | 93   | 30 - 143     | 1   | 35        |
| cis-1,2-Dichloroethene      | 2100          |                  | 1000        | 3210       |               | ug/L |   | 110  | 64 - 134     | 1   | 35        |
| cis-1,3-Dichloropropene     | 100           | U                | 1000        | 971        |               | ug/L |   | 97   | 58 - 120     | 6   | 35        |
| Dichlorobromomethane        | 100           | U                | 1000        | 1100       |               | ug/L |   | 110  | 64 - 127     | 2   | 35        |
| Ethylbenzene                | 100           | U                | 1000        | 1100       |               | ug/L |   | 110  | 66 - 123     | 4   | 34        |
| m-Xylene & p-Xylene         | 200           | U                | 1000        | 1100       |               | ug/L |   | 110  | 58 - 127     | 5   | 35        |
| 2-Butanone (MEK)            | 1000          | U                | 2000        | 1470       |               | ug/L |   | 74   | 38 - 123     | 9   | 35        |
| 4-Methyl-2-pentanone (MIBK) | 1000          | U                | 2000        | 1910       |               | ug/L |   | 96   | 43 - 143     | 1   | 35        |
| Methylene Chloride          | 100           | U                | 1000        | 1080       |               | ug/L |   | 108  | 48 - 138     | 0   | 35        |
| o-Xylene                    | 100           | U                | 1000        | 1130       |               | ug/L |   | 113  | 61 - 126     | 2   | 35        |
| Styrene                     | 100           | U                | 1000        | 1160       |               | ug/L |   | 116  | 62 - 131     | 0   | 35        |
| Tetrachloroethene           | 100           | U                | 1000        | 1150       |               | ug/L |   | 115  | 54 - 138     | 8   | 35        |
| Toluene                     | 100           | U                | 1000        | 1070       |               | ug/L |   | 107  | 63 - 130     | 3   | 33        |
| trans-1,2-Dichloroethene    | 85            | J                | 1000        | 1200       |               | ug/L |   | 112  | 70 - 137     | 4   | 25        |
| trans-1,3-Dichloropropene   | 100           | U                | 1000        | 887        |               | ug/L |   | 89   | 48 - 120     | 4   | 35        |
| Trichloroethene             | 100           | U                | 1000        | 1140       |               | ug/L |   | 114  | 58 - 139     | 2   | 35        |
| Vinyl chloride              | 150           |                  | 1000        | 1030       |               | ug/L |   | 88   | 38 - 147     | 12  | 35        |
| Xylenes, Total              | 200           | U                | 2000        | 2230       |               | ug/L |   | 112  | 60 - 126     | 4   | 35        |
| Chlorodibromomethane        | 100           | U                | 1000        | 1070       |               | ug/L |   | 107  | 56 - 132     | 3   | 35        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 93            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 113           |               | 73 - 120 |
| Toluene-d8 (Surr)            | 106           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 106           |               | 80 - 120 |

TestAmerica Canton

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

### GC/MS VOA

#### Analysis Batch: 253665

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71221-1      | GW-102116-TW-006   | Total/NA  | Water  | 8260B  |            |
| 240-71221-2      | GW-102116-TW-007   | Total/NA  | Water  | 8260B  |            |
| 240-71221-3      | GW-102116-TW-008   | Total/NA  | Water  | 8260B  |            |
| 240-71221-4      | GW-102116-TW-009   | Total/NA  | Water  | 8260B  |            |
| 240-71221-5      | GW-102116-TW-010   | Total/NA  | Water  | 8260B  |            |
| 240-71221-6      | GW-102116-TW-011   | Total/NA  | Water  | 8260B  |            |
| 240-71221-7      | TB-102116-TW-002   | Total/NA  | Water  | 8260B  |            |
| 240-71221-8      | EB-102116-TW-001   | Total/NA  | Water  | 8260B  |            |
| MB 240-253665/7  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253665/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| 240-71221-1 MS   | GW-102116-TW-006   | Total/NA  | Water  | 8260B  |            |
| 240-71221-1 MSD  | GW-102116-TW-006   | Total/NA  | Water  | 8260B  |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

**Client Sample ID: GW-102116-TW-006**

**Date Collected: 10/21/16 09:35**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 100             | 253665       | 10/31/16 13:43       | LEE     | TAL CAN |

**Client Sample ID: GW-102116-TW-007**

**Date Collected: 10/21/16 11:45**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 714.29          | 253665       | 10/31/16 14:50       | LEE     | TAL CAN |

**Client Sample ID: GW-102116-TW-008**

**Date Collected: 10/21/16 11:45**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 714.29          | 253665       | 10/31/16 15:12       | LEE     | TAL CAN |

**Client Sample ID: GW-102116-TW-009**

**Date Collected: 10/21/16 14:00**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 100             | 253665       | 10/31/16 15:35       | LEE     | TAL CAN |

**Client Sample ID: GW-102116-TW-010**

**Date Collected: 10/21/16 16:30**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253665       | 10/31/16 15:57       | LEE     | TAL CAN |

**Client Sample ID: GW-102116-TW-011**

**Date Collected: 10/21/16 18:00**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 253665       | 10/31/16 16:20       | LEE     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

**Client Sample ID: TB-102116-TW-002**

**Date Collected: 10/21/16 00:00**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253665       | 10/31/16 16:42       | LEE     | TAL CAN |

**Client Sample ID: EB-102116-TW-001**

**Date Collected: 10/21/16 17:10**

**Date Received: 10/22/16 10:00**

**Lab Sample ID: 240-71221-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253665       | 10/31/16 17:05       | LEE     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71221-2

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



28/1/3.2

# Chain of Custody Record

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                       |  |                                                                                                                           |  |                                                                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Due Date Requested:<br>TAT Requested (days): 2 week (std)<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW#: 017302-107 |  | Sampler: Tyler W. Hmaier<br>Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Phone: 317-291-7025 |  | Carrier Tracking No(s): Fedex 7844 2919 9196<br>COC No: 240-37918-16623.8<br>Page: 10 of 10<br>Job #: 01302-107-6HD16 |  |
| <b>Analysis Requested</b>                                                                                                                                                                                                                                                                                            |  |                                                                                                                                       |  |                                                                                                                           |  |                                                                                                                       |  |
| Field Filtered Sample (Yes or No)                                                                                                                                                                                                                                                                                    |  | Perform MS/MSD (Yes or No)                                                                                                            |  | 9034 Calc - Sulfide                                                                                                       |  | 220B - Alkalinity, Carb and Bicarb                                                                                    |  |
| 8260B - VOCs                                                                                                                                                                                                                                                                                                         |  | 8260B - VOCs                                                                                                                          |  | 9060 Diss - DOC                                                                                                           |  | 300.0 2BD - Chloride, Sulfate, Nitrate, Nitrite                                                                       |  |
| 8260B - VOCs                                                                                                                                                                                                                                                                                                         |  | 8260B - VOCs                                                                                                                          |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  | 9060 - TOC                                                                                                                            |  | 9060 - TOC                                                                                                                |  | 6010B - Manganese                                                                                                     |  |
| 9060 - TOC                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                       |  |                                                                                                                           |  |                                                                                                                       |  |







Login #: 71221

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WI-NC-099H-071615 Cooler Receipt Form\_page 2 - Multiple Coolers.doc rls

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>               | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|-------------------------------------|-------------------------------|-------------------------------------------|--------------|
| HW-102116-TW-006        | 240-71221-N-1 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-006        | 240-71221-P-1 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-006        | 240-71221-Q-1 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-N-2 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-P-2 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-007        | 240-71221-Q-2 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-N-3 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-P-3 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-008        | 240-71221-Q-3 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-N-4 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-P-4 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-009        | 240-71221-Q-4 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-N-5 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-P-5 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-010        | 240-71221-Q-5 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-N-6 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-P-6 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| HW-102116-TW-011        | 240-71221-Q-6 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71261-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:40:03 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

### Qualifiers

#### GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### Metals

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### General Chemistry

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

# Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

**Job ID: 240-71261-1**

**Laboratory: TestAmerica Canton**

## Narrative

**Job Narrative**  
**240-71261-1**

### Comments

No additional comments.

### Receipt

The samples were received on 10/25/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

### GC VOA

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.

### General Chemistry

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

# Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

| Method     | Method Description                                | Protocol | Laboratory |
|------------|---------------------------------------------------|----------|------------|
| RSK-175    | Dissolved Gases (GC)                              | RSK      | TAL CAN    |
| 6010B      | Metals (ICP)                                      | SW846    | TAL CAN    |
| 2320B-1997 | Alkalinity, Total                                 | SM       | TAL CAN    |
| 2340C-1997 | Hardness, Total                                   | SM       | TAL CAN    |
| 300.0      | Anions, Ion Chromatography                        | MCAWW    | TAL CAN    |
| 9034       | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Dissolved (DOC)                   | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Total (TOC)                       | SW846    | TAL CAN    |

## Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71261-1   | GW-102416-TW-029 | Water  | 10/24/16 10:00 | 10/25/16 09:45 |
| 240-71261-2   | GW-102416-TW-031 | Water  | 10/24/16 12:35 | 10/25/16 09:45 |
| 240-71261-3   | GW-102416-TW-032 | Water  | 10/24/16 14:00 | 10/25/16 09:45 |
| 240-71261-4   | GW-102416-TW-033 | Water  | 10/24/16 15:20 | 10/25/16 09:45 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Client Sample ID: GW-102416-TW-029

## Lab Sample ID: 240-71261-1

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 3.2    |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 91     |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 370    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 450    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 17     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Nitrate as N                    | 0.98   |           | 0.10 | 0.035 | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 47     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 2.5    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 2.7    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102416-TW-031

## Lab Sample ID: 240-71261-2

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 11     |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 0.67   |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 15     |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 160    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 350    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 480    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 56     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 72     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.6    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.6    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102416-TW-032

## Lab Sample ID: 240-71261-3

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 11     |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 0.79   |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 4.3    |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 170    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 340    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 460    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 120    |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 69     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.5    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.5    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Dissolved |

## Client Sample ID: GW-102416-TW-033

## Lab Sample ID: 240-71261-4

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|---------|---|------------|-----------|
| Methane                         | 34     |           | 0.50 | 0.080 | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethane                          | 1.7    |           | 0.50 | 0.14  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Ethylene                        | 4.2    |           | 0.50 | 0.13  | ug/L | 1       |   | RSK-175    | Total/NA  |
| Manganese                       | 310    |           | 15   | 5.1   | ug/L | 1       |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 370    |           | 5.0  | 1.9   | mg/L | 1       |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 490    |           | 25   | 16    | mg/L | 1       |   | 2340C-1997 | Total/NA  |
| Chloride                        | 35     |           | 1.0  | 0.41  | mg/L | 1       |   | 300.0      | Total/NA  |
| Sulfate                         | 96     |           | 1.0  | 0.13  | mg/L | 1       |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 3.7    |           | 1.0  | 0.080 | mg/L | 1       |   | 9060       | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

**Client Sample ID: GW-102416-TW-033 (Continued)**

**Lab Sample ID: 240-71261-4**

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-------|------|---------|---|--------|-----------|
| Dissolved Organic Carbon | 3.3    |           | 1.0 | 0.080 | mg/L | 1       |   | 9060   | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-1

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 3.2       |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 16:59 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/31/16 16:59 | 1       |
| Ethylene              | 0.50      | U         | 0.50     | 0.13  | ug/L |   |          | 10/31/16 16:59 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 87        |           | 76 - 121 |       |      |   |          | 10/31/16 16:59 | 1       |

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-2

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 11        |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Ethane                | 0.67      |           | 0.50     | 0.14  | ug/L |   |          | 10/31/16 17:16 | 1       |
| Ethylene              | 15        |           | 0.50     | 0.13  | ug/L |   |          | 10/31/16 17:16 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 84        |           | 76 - 121 |       |      |   |          | 10/31/16 17:16 | 1       |

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-3

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 11        |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 17:33 | 1       |
| Ethane                | 0.79      |           | 0.50     | 0.14  | ug/L |   |          | 10/31/16 17:33 | 1       |
| Ethylene              | 4.3       |           | 0.50     | 0.13  | ug/L |   |          | 10/31/16 17:33 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 83        |           | 76 - 121 |       |      |   |          | 10/31/16 17:33 | 1       |

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-4

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 34        |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 17:50 | 1       |
| Ethane                | 1.7       |           | 0.50     | 0.14  | ug/L |   |          | 10/31/16 17:50 | 1       |
| Ethylene              | 4.2       |           | 0.50     | 0.13  | ug/L |   |          | 10/31/16 17:50 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 83        |           | 76 - 121 |       |      |   |          | 10/31/16 17:50 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-1

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 91     |           | 15 | 5.1 | ug/L | — | 10/26/16 14:00 | 10/27/16 17:47 | 1       |

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-2

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 160    |           | 15 | 5.1 | ug/L | — | 10/26/16 14:00 | 10/27/16 18:08 | 1       |

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-3

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 170    |           | 15 | 5.1 | ug/L | — | 10/26/16 14:00 | 10/27/16 18:12 | 1       |

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-4

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 310    |           | 15 | 5.1 | ug/L | — | 10/26/16 14:00 | 10/27/16 18:17 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## General Chemistry

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-1

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 370    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:05 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:05 | 1       |
| Hardness as calcium carbonate               | 450    |           | 25   | 16    | mg/L |   |                | 10/27/16 11:20 | 1       |
| Chloride                                    | 17     |           | 1.0  | 0.41  | mg/L |   |                | 10/25/16 17:23 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/25/16 17:23 | 1       |
| Nitrate as N                                | 0.98   |           | 0.10 | 0.035 | mg/L |   |                | 10/25/16 17:23 | 1       |
| Sulfate                                     | 47     |           | 1.0  | 0.13  | mg/L |   |                | 10/25/16 17:23 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 2.5    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 20:09 | 1       |

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-2

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 350    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:17 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:17 | 1       |
| Hardness as calcium carbonate               | 480    |           | 25   | 16    | mg/L |   |                | 10/27/16 11:28 | 1       |
| Chloride                                    | 56     |           | 1.0  | 0.41  | mg/L |   |                | 10/25/16 18:23 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/25/16 18:23 | 1       |
| Nitrate as N                                | 0.10   | U         | 0.10 | 0.035 | mg/L |   |                | 10/25/16 18:23 | 1       |
| Sulfate                                     | 72     |           | 1.0  | 0.13  | mg/L |   |                | 10/25/16 18:23 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 1.6    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 20:36 | 1       |

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-3

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 340    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:30 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:30 | 1       |
| Hardness as calcium carbonate               | 460    |           | 25   | 16    | mg/L |   |                | 10/27/16 11:36 | 1       |
| Chloride                                    | 120    |           | 1.0  | 0.41  | mg/L |   |                | 10/25/16 18:44 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/25/16 18:44 | 1       |
| Nitrate as N                                | 0.10   | U         | 0.10 | 0.035 | mg/L |   |                | 10/25/16 18:44 | 1       |
| Sulfate                                     | 69     |           | 1.0  | 0.13  | mg/L |   |                | 10/25/16 18:44 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |
| Total Organic Carbon                        | 1.5    |           | 1.0  | 0.080 | mg/L |   |                | 10/26/16 21:03 | 1       |

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-4

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 370    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:42 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 21:42 | 1       |
| Hardness as calcium carbonate               | 490    |           | 25   | 16    | mg/L |   |                | 10/27/16 11:44 | 1       |
| Chloride                                    | 35     |           | 1.0  | 0.41  | mg/L |   |                | 10/25/16 19:04 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/25/16 19:04 | 1       |
| Nitrate as N                                | 0.10   | U         | 0.10 | 0.035 | mg/L |   |                | 10/25/16 19:04 | 1       |
| Sulfate                                     | 96     |           | 1.0  | 0.13  | mg/L |   |                | 10/25/16 19:04 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## General Chemistry (Continued)

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-4

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 3.7    |           | 1.0 | 0.080 | mg/L |   |          | 10/26/16 21:31 | 1       |



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## General Chemistry - Dissolved

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-1

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 2.7    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 13:03 | 1       |

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-2

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.6    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 13:31 | 1       |

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-3

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.5    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 14:16 | 1       |

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71261-4

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 3.3    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 14:42 | 1       |

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | Trifluoroethane<br>(76-121) |
|------------------|--------------------|-----------------------------|
| 240-71261-1      | GW-102416-TW-029   | 87                          |
| 240-71261-2      | GW-102416-TW-031   | 84                          |
| 240-71261-3      | GW-102416-TW-032   | 83                          |
| 240-71261-4      | GW-102416-TW-033   | 83                          |
| LCS 240-253703/5 | Lab Control Sample | 87                          |
| MB 240-253703/4  | Method Blank       | 89                          |

### Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-253703/4

Matrix: Water

Analysis Batch: 253703

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result    | MB Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|--------------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 0.50         | U            | 0.50     | 0.080 | ug/L |   |          | 10/31/16 16:07 | 1       |
| Ethane                | 0.50         | U            | 0.50     | 0.14  | ug/L |   |          | 10/31/16 16:07 | 1       |
| Ethylene              | 0.50         | U            | 0.50     | 0.13  | ug/L |   |          | 10/31/16 16:07 | 1       |
| Surrogate             | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 89           |              | 76 - 121 |       |      |   |          | 10/31/16 16:07 | 1       |

Lab Sample ID: LCS 240-253703/5

Matrix: Water

Analysis Batch: 253703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|---------------|---------------|---------------|------|---|------|--------------|
| Methane               | 199           | 197           |               | ug/L |   | 99   | 80 - 130     |
| Ethane                | 374           | 381           |               | ug/L |   | 102  | 76 - 131     |
| Ethylene              | 349           | 356           |               | ug/L |   | 102  | 79 - 132     |
| Surrogate             | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 1,1,1-Trifluoroethane | 87            |               | 76 - 121      |      |   |      |              |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-253083/1-A

Matrix: Water

Analysis Batch: 253376

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 253083

| Analyte   | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15        | U            | 15 | 5.1 | ug/L |   | 10/26/16 14:00 | 10/27/16 17:39 | 1       |

Lab Sample ID: LCS 240-253083/2-A

Matrix: Water

Analysis Batch: 253376

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 253083

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 500         | 539        |               | ug/L |   | 108  | 80 - 120     |

Lab Sample ID: 240-71261-1 MS

Matrix: Water

Analysis Batch: 253376

Client Sample ID: GW-102416-TW-029

Prep Type: Dissolved

Prep Batch: 253083

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Manganese | 91            |                  | 500         | 636       |              | ug/L |   | 109  | 75 - 125     |

Lab Sample ID: 240-71261-1 MSD

Matrix: Water

Analysis Batch: 253376

Client Sample ID: GW-102416-TW-029

Prep Type: Dissolved

Prep Batch: 253083

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Manganese | 91            |                  | 500         | 624        |               | ug/L |   | 106  | 75 - 125     | 2   | 20        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-254006/5

Matrix: Water

Analysis Batch: 254006

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                         | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 11/01/16 18:31 | 1       |
| Carbonate Alkalinity as CaCO3   | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 11/01/16 18:31 | 1       |

## Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-253223/1

Matrix: Water

Analysis Batch: 253223

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                       | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Hardness as calcium carbonate | 5.0       | U            | 5.0 | 3.1 | mg/L |   |          | 10/27/16 08:32 | 1       |

Lab Sample ID: LCS 240-253223/2

Matrix: Water

Analysis Batch: 253223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Hardness as calcium carbonate | 170         | 166        |               | mg/L |   | 98   | 80 - 120     |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-252882/3

Matrix: Water

Analysis Batch: 252882

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/25/16 10:50 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/25/16 10:50 | 1       |

Lab Sample ID: LCS 240-252882/4

Matrix: Water

Analysis Batch: 252882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 51.4       |               | mg/L |   | 103  | 90 - 110     |
| Sulfate  | 50.0        | 52.7       |               | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: 240-71261-1 MS

Matrix: Water

Analysis Batch: 252882

Client Sample ID: GW-102416-TW-029

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 17            |                  | 50.0        | 67.6      |              | mg/L |   | 102  | 80 - 120     |
| Sulfate  | 47            |                  | 50.0        | 100       |              | mg/L |   | 106  | 80 - 120     |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-71261-1 MSD

Matrix: Water

Analysis Batch: 252882

Client Sample ID: GW-102416-TW-029

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 17            |                  | 50.0        | 68.2       |               | mg/L |   | 103  | 80 - 120     | 1   | 15        |
| Sulfate  | 47            |                  | 50.0        | 101        |               | mg/L |   | 108  | 80 - 120     | 1   | 15        |

Lab Sample ID: MB 240-252984/3

Matrix: Water

Analysis Batch: 252984

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.10      | U            | 0.10 | 0.038 | mg/L |   |          | 10/25/16 10:50 | 1       |
| Nitrate as N | 0.10      | U            | 0.10 | 0.035 | mg/L |   |          | 10/25/16 10:50 | 1       |

Lab Sample ID: LCS 240-252984/4

Matrix: Water

Analysis Batch: 252984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrite as N | 2.50        | 2.61       |               | mg/L |   | 104  | 90 - 110     |
| Nitrate as N | 2.50        | 2.71       |               | mg/L |   | 108  | 90 - 110     |

Lab Sample ID: 240-71261-1 MS

Matrix: Water

Analysis Batch: 252984

Client Sample ID: GW-102416-TW-029

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrite as N | 0.10          | U                | 2.50        | 2.78      |              | mg/L |   | 111  | 80 - 120     |
| Nitrate as N | 0.98          |                  | 2.50        | 3.83      |              | mg/L |   | 114  | 80 - 120     |

Lab Sample ID: 240-71261-1 MSD

Matrix: Water

Analysis Batch: 252984

Client Sample ID: GW-102416-TW-029

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrite as N | 0.10          | U                | 2.50        | 2.74       |               | mg/L |   | 110  | 80 - 120     | 1   | 15        |
| Nitrate as N | 0.98          |                  | 2.50        | 3.84       |               | mg/L |   | 114  | 80 - 120     | 0   | 15        |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-253036/1-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Sulfide | 3.0       | U            | 3.0 | 0.94 | mg/L |   | 10/26/16 08:31 | 10/26/16 11:30 | 1       |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 240-253036/2-A

Matrix: Water

Analysis Batch: 253109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253036

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfide | 8.27        | 7.47       |               | mg/L |   | 90   | 70 - 120     |

## Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-253193/4

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 10/26/16 12:07 | 1       |

Lab Sample ID: LCS 240-253193/6

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 46.3        | 46.3       |               | mg/L |   | 100  | 80 - 120     |

Lab Sample ID: LLCS 240-253193/5

Matrix: Water

Analysis Batch: 253193

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Organic Carbon | 4.63        | 4.37        |                | mg/L |   | 94   | 88 - 115     |

## Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-253943/4

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Method Blank

Prep Type: Dissolved

| Analyte                  | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 11/01/16 06:48 | 1       |

Lab Sample ID: LCS 240-253943/6

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| Dissolved Organic Carbon | 46.3        | 47.3       |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: LLCS 240-253943/5

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Dissolved Organic Carbon | 4.63        | 4.54        |                | mg/L |   | 98   | 88 - 115     |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## GC VOA

### Analysis Batch: 253703

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 240-71261-1      | GW-102416-TW-029   | Total/NA  | Water  | RSK-175 |            |
| 240-71261-2      | GW-102416-TW-031   | Total/NA  | Water  | RSK-175 |            |
| 240-71261-3      | GW-102416-TW-032   | Total/NA  | Water  | RSK-175 |            |
| 240-71261-4      | GW-102416-TW-033   | Total/NA  | Water  | RSK-175 |            |
| MB 240-253703/4  | Method Blank       | Total/NA  | Water  | RSK-175 |            |
| LCS 240-253703/5 | Lab Control Sample | Total/NA  | Water  | RSK-175 |            |

## Metals

### Prep Batch: 253083

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71261-1        | GW-102416-TW-029   | Dissolved         | Water  | 3005A  |            |
| 240-71261-2        | GW-102416-TW-031   | Dissolved         | Water  | 3005A  |            |
| 240-71261-3        | GW-102416-TW-032   | Dissolved         | Water  | 3005A  |            |
| 240-71261-4        | GW-102416-TW-033   | Dissolved         | Water  | 3005A  |            |
| MB 240-253083/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-253083/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-71261-1 MS     | GW-102416-TW-029   | Dissolved         | Water  | 3005A  |            |
| 240-71261-1 MSD    | GW-102416-TW-029   | Dissolved         | Water  | 3005A  |            |

### Analysis Batch: 253376

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71261-1        | GW-102416-TW-029   | Dissolved         | Water  | 6010B  | 253083     |
| 240-71261-2        | GW-102416-TW-031   | Dissolved         | Water  | 6010B  | 253083     |
| 240-71261-3        | GW-102416-TW-032   | Dissolved         | Water  | 6010B  | 253083     |
| 240-71261-4        | GW-102416-TW-033   | Dissolved         | Water  | 6010B  | 253083     |
| MB 240-253083/1-A  | Method Blank       | Total Recoverable | Water  | 6010B  | 253083     |
| LCS 240-253083/2-A | Lab Control Sample | Total Recoverable | Water  | 6010B  | 253083     |
| 240-71261-1 MS     | GW-102416-TW-029   | Dissolved         | Water  | 6010B  | 253083     |
| 240-71261-1 MSD    | GW-102416-TW-029   | Dissolved         | Water  | 6010B  | 253083     |

## General Chemistry

### Analysis Batch: 252882

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71261-1      | GW-102416-TW-029   | Total/NA  | Water  | 300.0  |            |
| 240-71261-2      | GW-102416-TW-031   | Total/NA  | Water  | 300.0  |            |
| 240-71261-3      | GW-102416-TW-032   | Total/NA  | Water  | 300.0  |            |
| 240-71261-4      | GW-102416-TW-033   | Total/NA  | Water  | 300.0  |            |
| MB 240-252882/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252882/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71261-1 MS   | GW-102416-TW-029   | Total/NA  | Water  | 300.0  |            |
| 240-71261-1 MSD  | GW-102416-TW-029   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 252984

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-71261-1   | GW-102416-TW-029 | Total/NA  | Water  | 300.0  |            |
| 240-71261-2   | GW-102416-TW-031 | Total/NA  | Water  | 300.0  |            |
| 240-71261-3   | GW-102416-TW-032 | Total/NA  | Water  | 300.0  |            |
| 240-71261-4   | GW-102416-TW-033 | Total/NA  | Water  | 300.0  |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## General Chemistry (Continued)

### Analysis Batch: 252984 (Continued)

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| MB 240-252984/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-252984/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71261-1 MS   | GW-102416-TW-029   | Total/NA  | Water  | 300.0  |            |
| 240-71261-1 MSD  | GW-102416-TW-029   | Total/NA  | Water  | 300.0  |            |

### Prep Batch: 253036

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71261-1        | GW-102416-TW-029   | Total/NA  | Water  | 9030B  |            |
| 240-71261-2        | GW-102416-TW-031   | Total/NA  | Water  | 9030B  |            |
| 240-71261-3        | GW-102416-TW-032   | Total/NA  | Water  | 9030B  |            |
| 240-71261-4        | GW-102416-TW-033   | Total/NA  | Water  | 9030B  |            |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9030B  |            |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9030B  |            |

### Analysis Batch: 253109

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 240-71261-1        | GW-102416-TW-029   | Total/NA  | Water  | 9034   | 253036     |
| 240-71261-2        | GW-102416-TW-031   | Total/NA  | Water  | 9034   | 253036     |
| 240-71261-3        | GW-102416-TW-032   | Total/NA  | Water  | 9034   | 253036     |
| 240-71261-4        | GW-102416-TW-033   | Total/NA  | Water  | 9034   | 253036     |
| MB 240-253036/1-A  | Method Blank       | Total/NA  | Water  | 9034   | 253036     |
| LCS 240-253036/2-A | Lab Control Sample | Total/NA  | Water  | 9034   | 253036     |

### Analysis Batch: 253193

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71261-1       | GW-102416-TW-029   | Total/NA  | Water  | 9060   |            |
| 240-71261-2       | GW-102416-TW-031   | Total/NA  | Water  | 9060   |            |
| 240-71261-3       | GW-102416-TW-032   | Total/NA  | Water  | 9060   |            |
| 240-71261-4       | GW-102416-TW-033   | Total/NA  | Water  | 9060   |            |
| MB 240-253193/4   | Method Blank       | Total/NA  | Water  | 9060   |            |
| LCS 240-253193/6  | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| LLCS 240-253193/5 | Lab Control Sample | Total/NA  | Water  | 9060   |            |

### Analysis Batch: 253223

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 240-71261-1      | GW-102416-TW-029   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71261-2      | GW-102416-TW-031   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71261-3      | GW-102416-TW-032   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71261-4      | GW-102416-TW-033   | Total/NA  | Water  | 2340C-1997 |            |
| MB 240-253223/1  | Method Blank       | Total/NA  | Water  | 2340C-1997 |            |
| LCS 240-253223/2 | Lab Control Sample | Total/NA  | Water  | 2340C-1997 |            |

### Analysis Batch: 253943

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71261-1       | GW-102416-TW-029   | Dissolved | Water  | 9060   |            |
| 240-71261-2       | GW-102416-TW-031   | Dissolved | Water  | 9060   |            |
| 240-71261-3       | GW-102416-TW-032   | Dissolved | Water  | 9060   |            |
| 240-71261-4       | GW-102416-TW-033   | Dissolved | Water  | 9060   |            |
| MB 240-253943/4   | Method Blank       | Dissolved | Water  | 9060   |            |
| LCS 240-253943/6  | Lab Control Sample | Dissolved | Water  | 9060   |            |
| LLCS 240-253943/5 | Lab Control Sample | Dissolved | Water  | 9060   |            |

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

### Analysis Batch: 254006

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|-----------------|------------------|-----------|--------|------------|------------|
| 240-71261-1     | GW-102416-TW-029 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71261-2     | GW-102416-TW-031 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71261-3     | GW-102416-TW-032 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71261-4     | GW-102416-TW-033 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-254006/5 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

**Client Sample ID: GW-102416-TW-029**

**Date Collected: 10/24/16 10:00**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71261-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 16:59       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253083       | 10/26/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253376       | 10/27/16 17:47       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 21:05       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 11:20       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252882       | 10/25/16 17:23       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252984       | 10/25/16 17:23       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 13:03       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 20:09       | TPH     | TAL CAN |

**Client Sample ID: GW-102416-TW-031**

**Date Collected: 10/24/16 12:35**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71261-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 17:16       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253083       | 10/26/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253376       | 10/27/16 18:08       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 21:17       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 11:28       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252882       | 10/25/16 18:23       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252984       | 10/25/16 18:23       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 13:31       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 20:36       | TPH     | TAL CAN |

**Client Sample ID: GW-102416-TW-032**

**Date Collected: 10/24/16 14:00**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71261-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 17:33       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253083       | 10/26/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253376       | 10/27/16 18:12       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 21:30       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 11:36       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252882       | 10/25/16 18:44       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252984       | 10/25/16 18:44       | LCN     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

**Client Sample ID: GW-102416-TW-032**

**Lab Sample ID: 240-71261-3**

**Date Collected: 10/24/16 14:00**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 14:16       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 21:03       | TPH     | TAL CAN |

**Client Sample ID: GW-102416-TW-033**

**Lab Sample ID: 240-71261-4**

**Date Collected: 10/24/16 15:20**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 17:50       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253083       | 10/26/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253376       | 10/27/16 18:17       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 21:42       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253223       | 10/27/16 11:44       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252882       | 10/25/16 19:04       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 252984       | 10/25/16 19:04       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253036       | 10/26/16 08:31       | BLW     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253109       | 10/26/16 11:30       | BLW     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 14:42       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253193       | 10/26/16 21:31       | TPH     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71261-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

3.01C3.5

## Chain of Custody Record

|                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                           |  |                                                                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone:<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Sampler: Tyler Wittmaier<br>Phone: 905-328-0632<br>Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamerica.com                                                                                                                                                    |  | COC No: 240-37918-16623.1<br>Page: 40<br>Job #: 017302-107-6-HD16 |  |
| Due Date Requested:<br>TAT Requested (days): 2 week (stop)                                                                                                                                                                                                                                                   |  | PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW#: 017302-107                                                                                                                                                                                                  |  | Analysis Requested                                                |  |
| Sample Identification<br>6W-102416-TW-029<br>6W-102416-TW-031<br>6W-102416-TW-032<br>6W-102416-TW-033                                                                                                                                                                                                        |  | Sample Date<br>24-Oct-16<br>1<br>1<br>1<br>1                                                                                                                                                                                                                              |  | Sample Time<br>10:00<br>12:35<br>14:00<br>15:20                   |  |
| Sample Type<br>(C=Comp, G=grab)<br>G<br>1<br>1<br>1                                                                                                                                                                                                                                                          |  | Matrix<br>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)<br>Water<br>Water<br>Water<br>Water                                                                                                                                                                           |  | Field Filtered Sample (Yes or No)<br>X<br>1<br>1<br>1             |  |
| Preservation Code:<br>24-Oct-16<br>1<br>1<br>1                                                                                                                                                                                                                                                               |  | 8260B - VOCs<br>8260B - VOCs<br>9034 Calc - Sulfide<br>2320B - Alkalinity, Carb and Bicarb<br>2340C - Hardness as calcium carbonate<br>9060 Diss - DOC<br>RSK 175 - Dissolved Gases<br>9060 - TOC<br>300-0-280 - Chloride, Sulfate, Nitrate, Nitrite<br>6010B - Manganese |  | Total Number of Containers<br>14<br>14<br>14<br>14                |  |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                         |  | Empty Kit Relinquished by:<br>Relinquished by: Tyler Wittmaier<br>Relinquished by:<br>Relinquished by:                                                                                                                                                                    |  | Special Instructions/Note:<br>*field filtered<br>*field filtered  |  |
| Date/Time: 10/24/16 20:00<br>Date/Time: 10/25/16 9:45<br>Date/Time:                                                                                                                                                                                                                                          |  | Date/Time: 10/25/16 9:45<br>Date/Time:                                                                                                                                                                                                                                    |  | Date/Time: 10/25/16 9:45<br>Date/Time:                            |  |

| TestAmerica Canton Sample Receipt Form/Narrative                                                                                                                                                                                                                               |                           |                                |  | Login # : <u>71161</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|--|------------------------|
| <b>Canton Facility</b>                                                                                                                                                                                                                                                         |                           |                                |  |                        |
| Client <u>GHD</u>                                                                                                                                                                                                                                                              | Site Name _____           | Cooler unpacked by: <u>DSD</u> |  |                        |
| Cooler Received on <u>10/25/16</u>                                                                                                                                                                                                                                             | Opened on <u>10/25/16</u> |                                |  |                        |
| FedEx: 1 <sup>st</sup> Grd <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Stetson <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other <input type="checkbox"/> |                           |                                |  |                        |
| <b>Receipt After-hours:</b> Drop-off Date/Time _____ Storage Location _____                                                                                                                                                                                                    |                           |                                |  |                        |
| TestAmerica Cooler # _____ Foam Box <input type="checkbox"/> Client <input checked="" type="checkbox"/> Cooler <input type="checkbox"/> Box <input type="checkbox"/> Other _____                                                                                               |                           |                                |  |                        |
| Packing material used: Bubble Wrap <input type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____                                                                                            |                           |                                |  |                        |
| COOLANT: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>                                                                                           |                           |                                |  |                        |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form                                                                                                                                                                                           |                           |                                |  |                        |
| IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. <u>3.0</u> °C Corrected Cooler Temp. <u>3.4</u> °C                                                                                                                                                                             |                           |                                |  |                        |
| IR GUN #36 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                                                                                                                                                                                         |                           |                                |  |                        |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                               |                           |                                |  |                        |
| -Were custody seals on the outside of the cooler(s) signed & dated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA                                                                                                                                     |                           |                                |  |                        |
| -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                           |                           |                                |  |                        |
| 3. Shippers' packing slip attached to the cooler(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                       |                           |                                |  |                        |
| 4. Did custody papers accompany the sample(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                             |                           |                                |  |                        |
| 5. Were the custody papers relinquished & signed in the appropriate place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                 |                           |                                |  |                        |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                         |                           |                                |  |                        |
| 7. Did all bottles arrive in good condition (Unbroken)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                    |                           |                                |  |                        |
| 8. Could all bottle labels be reconciled with the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                     |                           |                                |  |                        |
| 9. Were correct bottle(s) used for the test(s) indicated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                  |                           |                                |  |                        |
| 10. Sufficient quantity received to perform indicated analyses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                            |                           |                                |  |                        |
| 11. Are these work share samples? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                          |                           |                                |  |                        |
| If yes, Questions 11-15 have been checked at the originating laboratory.                                                                                                                                                                                                       |                           |                                |  |                        |
| 11. Were sample(s) at the correct pH upon receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA pH Strip Lot# <u>HC682547</u>                                                                                                                        |                           |                                |  |                        |
| 12. Were VOAs on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                  |                           |                                |  |                        |
| 13. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA                                                                                                                                                            |                           |                                |  |                        |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                  |                           |                                |  |                        |
| 15. Was a LL Hg or Me Hg trip blank present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                               |                           |                                |  |                        |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                                                                                                                                                                                       |                           |                                |  |                        |
| Concerning _____                                                                                                                                                                                                                                                               |                           |                                |  |                        |

|                                                                                                                                                                                                                                                  |                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>16. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div>                                                                                                           | <b>Samples processed by:</b><br><div style="border: 1px solid black; height: 100px; margin-top: 5px;"></div> |
| <b>17. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                                                                                                              |
| <b>18. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                  |                                                                                                              |

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u>               | <u>Container</u><br><u>pH</u> | <u>Preservative</u><br><u>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|---------------|-------------------------------------|-------------------------------|-------------------------------------------|--------------|
| GW-102416-TW-029        | 240-71261-K-1 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-102416-TW-029        | 240-71261-M-1 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| GW-102416-TW-029        | 240-71261-N-1 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-102416-TW-030        | 240-71261-K-2 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-102416-TW-030        | 240-71261-M-2 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| GW-102416-TW-030        | 240-71261-N-2 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-102416-TW-031        | 240-71261-K-3 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-102416-TW-031        | 240-71261-M-3 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| GW-102416-TW-031        | 240-71261-N-3 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |
| GW-102416-TW-032        | 240-71261-K-4 | Plastic 250ml - with Nitric Acid    | <2                            | _____                                     | _____        |
| GW-102416-TW-032        | 240-71261-M-4 | Plastic 500ml - w/ Nitric - Dis.    | <2                            | _____                                     | _____        |
| GW-102416-TW-032        | 240-71261-N-4 | Plastic 500ml - with Zn Acetate and | >9                            | _____                                     | _____        |



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71258-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:24:13 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

# Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Job ID: 240-71258-1**

**Laboratory: TestAmerica Canton**

## Narrative

### Job Narrative 240-71258-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/25/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253720 recovered outside control limits for the following analyte: 2-Butanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253720 recovered outside control limits for the following analyte: Acetone. Acetone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253722 recovered outside control limits for the following analyte: 2-Hexanone. This analyte were biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253849 recovered outside control limits for the following analyte: 2-Butanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-253846 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

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

#### VOA Prep

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71258-1   | TB-102216-TW-003 | Water  | 10/22/16 00:00 | 10/25/16 09:45 |
| 240-71258-2   | GW-102216-TW-012 | Water  | 10/22/16 09:45 | 10/25/16 09:45 |
| 240-71258-3   | GW-102216-TW-013 | Water  | 10/22/16 11:00 | 10/25/16 09:45 |
| 240-71258-4   | GW-102216-TW-014 | Water  | 10/22/16 12:10 | 10/25/16 09:45 |
| 240-71258-5   | GW-102216-TW-015 | Water  | 10/22/16 12:10 | 10/25/16 09:45 |
| 240-71258-6   | GW-102216-TW-016 | Water  | 10/22/16 13:35 | 10/25/16 09:45 |
| 240-71258-7   | GW-102216-TW-017 | Water  | 10/22/16 15:30 | 10/25/16 09:45 |
| 240-71258-8   | GW-102216-TW-018 | Water  | 10/22/16 15:30 | 10/25/16 09:45 |
| 240-71258-9   | GW-102216-TW-019 | Water  | 10/22/16 17:10 | 10/25/16 09:45 |
| 240-71258-10  | GW-102216-TW-020 | Water  | 10/22/16 18:30 | 10/25/16 09:45 |
| 240-71258-11  | GW-102316-TW-021 | Water  | 10/23/16 09:15 | 10/25/16 09:45 |
| 240-71258-12  | GW-102316-TW-022 | Water  | 10/23/16 10:30 | 10/25/16 09:45 |
| 240-71258-13  | GW-102316-TW-023 | Water  | 10/23/16 11:45 | 10/25/16 09:45 |
| 240-71258-14  | GW-102316-TW-024 | Water  | 10/23/16 13:20 | 10/25/16 09:45 |
| 240-71258-15  | EB-102316-TW-002 | Water  | 10/23/16 13:50 | 10/25/16 09:45 |
| 240-71258-16  | GW-102316-TW-025 | Water  | 10/23/16 15:15 | 10/25/16 09:45 |
| 240-71258-17  | GW-102316-TW-026 | Water  | 10/23/16 16:10 | 10/25/16 09:45 |
| 240-71258-18  | GW-102316-TW-027 | Water  | 10/23/16 17:30 | 10/25/16 09:45 |
| 240-71258-19  | GW-102316-TW-028 | Water  | 10/23/16 18:40 | 10/25/16 09:45 |
| 240-71258-20  | GW-102416-TW-029 | Water  | 10/24/16 10:00 | 10/25/16 09:45 |
| 240-71258-21  | GW-102416-TW-030 | Water  | 10/24/16 11:30 | 10/25/16 09:45 |
| 240-71258-22  | GW-102416-TW-031 | Water  | 10/24/16 12:35 | 10/25/16 09:45 |
| 240-71258-23  | GW-102416-TW-032 | Water  | 10/24/16 14:00 | 10/25/16 09:45 |
| 240-71258-24  | GW-102416-TW-033 | Water  | 10/24/16 15:20 | 10/25/16 09:45 |
| 240-71258-25  | SW-102416-TW-001 | Water  | 10/24/16 16:15 | 10/25/16 09:45 |
| 240-71258-26  | SW-102416-TW-002 | Water  | 10/24/16 16:15 | 10/25/16 09:45 |
| 240-71258-27  | SW-102416-TW-003 | Water  | 10/24/16 16:25 | 10/25/16 09:45 |
| 240-71258-28  | GW-102416-TW-034 | Water  | 10/24/16 18:25 | 10/25/16 09:45 |

TestAmerica Canton

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

### Client Sample ID: TB-102216-TW-003

### Lab Sample ID: 240-71258-1

No Detections.

### Client Sample ID: GW-102216-TW-012

### Lab Sample ID: 240-71258-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 1.7    | J         | 5.0 | 1.3 | ug/L | 5       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 77     |           | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 26     |           | 5.0 | 2.3 | ug/L | 5       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-013

### Lab Sample ID: 240-71258-3

No Detections.

### Client Sample ID: GW-102216-TW-014

### Lab Sample ID: 240-71258-4

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 1.9    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-015

### Lab Sample ID: 240-71258-5

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 1.8    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-016

### Lab Sample ID: 240-71258-6

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 25     |           | 1.8 | 0.55 | ug/L | 1.82    |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 0.78   | J         | 1.8 | 0.53 | ug/L | 1.82    |   | 8260B  | Total/NA  |
| Vinyl chloride           | 49     |           | 1.8 | 0.82 | ug/L | 1.82    |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-017

### Lab Sample ID: 240-71258-7

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 5.3    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-018

### Lab Sample ID: 240-71258-8

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 5.3    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-019

### Lab Sample ID: 240-71258-9

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 860    |           | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 16     | J         | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| Vinyl chloride           | 190    |           | 50 | 23  | ug/L | 50      |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102216-TW-020

### Lab Sample ID: 240-71258-10

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.35   | J         | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 0.69   | J         | 1.0 | 0.45 | ug/L | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

### Client Sample ID: GW-102316-TW-021

### Lab Sample ID: 240-71258-11

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 5200   |           | 330 | 100 | ug/L | 333.33  |   | 8260B  | Total/NA  |
| Vinyl chloride         | 350    |           | 330 | 150 | ug/L | 333.33  |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102316-TW-022

### Lab Sample ID: 240-71258-12

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene   | 3200   |           | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 140    | J         | 200 | 58  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride           | 100    | J         | 200 | 90  | ug/L | 200     |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102316-TW-023

### Lab Sample ID: 240-71258-13

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.70   | J         | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102316-TW-024

### Lab Sample ID: 240-71258-14

No Detections.

### Client Sample ID: EB-102316-TW-002

### Lab Sample ID: 240-71258-15

No Detections.

### Client Sample ID: GW-102316-TW-025

### Lab Sample ID: 240-71258-16

No Detections.

### Client Sample ID: GW-102316-TW-026

### Lab Sample ID: 240-71258-17

No Detections.

### Client Sample ID: GW-102316-TW-027

### Lab Sample ID: 240-71258-18

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 12     |           | 8.0 | 2.4 | ug/L | 8       |   | 8260B  | Total/NA  |
| Trichloroethene        | 140    |           | 8.0 | 2.6 | ug/L | 8       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 5.3    | J         | 8.0 | 3.6 | ug/L | 8       |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102316-TW-028

### Lab Sample ID: 240-71258-19

No Detections.

### Client Sample ID: GW-102416-TW-029

### Lab Sample ID: 240-71258-20

No Detections.

### Client Sample ID: GW-102416-TW-030

### Lab Sample ID: 240-71258-21

No Detections.

### Client Sample ID: GW-102416-TW-031

### Lab Sample ID: 240-71258-22

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

### Client Sample ID: GW-102416-TW-031 (Continued)

Lab Sample ID: 240-71258-22

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 330    | J         | 560 | 140 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 7900   |           | 560 | 170 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 200    | J         | 560 | 160 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| Trichloroethene          | 1700   |           | 560 | 180 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| Vinyl chloride           | 630    |           | 560 | 250 | ug/L | 555.56  |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102416-TW-032

Lab Sample ID: 240-71258-23

| Analyte                  | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 340    | J         | 560 | 140 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 8400   |           | 560 | 170 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 260    | J         | 560 | 160 | ug/L | 555.56  |   | 8260B  | Total/NA  |
| Vinyl chloride           | 420    | J         | 560 | 250 | ug/L | 555.56  |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102416-TW-033

Lab Sample ID: 240-71258-24

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4.2    |           | 2.0 | 0.60 | ug/L | 2       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 46     |           | 2.0 | 0.90 | ug/L | 2       |   | 8260B  | Total/NA  |

### Client Sample ID: SW-102416-TW-001

Lab Sample ID: 240-71258-25

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 1.8    |           | 1.8 | 0.46 | ug/L | 1.82    |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 36     |           | 1.8 | 0.55 | ug/L | 1.82    |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 1.0    | J         | 1.8 | 0.53 | ug/L | 1.82    |   | 8260B  | Total/NA  |
| Vinyl chloride           | 3.1    |           | 1.8 | 0.82 | ug/L | 1.82    |   | 8260B  | Total/NA  |

### Client Sample ID: SW-102416-TW-002

Lab Sample ID: 240-71258-26

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 1.8    | J         | 2.0 | 0.50 | ug/L | 2       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 34     |           | 2.0 | 0.60 | ug/L | 2       |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 0.90   | J         | 2.0 | 0.58 | ug/L | 2       |   | 8260B  | Total/NA  |
| Vinyl chloride           | 2.9    |           | 2.0 | 0.90 | ug/L | 2       |   | 8260B  | Total/NA  |

### Client Sample ID: SW-102416-TW-003

Lab Sample ID: 240-71258-27

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 26     | J         | 33 | 8.3 | ug/L | 33.33   |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 500    |           | 33 | 10  | ug/L | 33.33   |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 21     | J         | 33 | 9.7 | ug/L | 33.33   |   | 8260B  | Total/NA  |

### Client Sample ID: GW-102416-TW-034

Lab Sample ID: 240-71258-28

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 1.0    |           | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: TB-102216-TW-003

Date Collected: 10/22/16 00:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-1

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 19:25 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 19:25 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:25 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:25 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:25 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 19:25 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:25 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 19:25 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 19:25 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:25 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 63 - 132 |          | 10/31/16 19:25 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |          | 10/31/16 19:25 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 73 - 124 |          | 10/31/16 19:25 | 1       |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |          | 10/31/16 19:25 | 1       |

Client Sample ID: GW-102216-TW-012

Date Collected: 10/22/16 09:45

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-2

Matrix: Water

| Analyte                   | Result     | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 5.0        | U         | 5.0 | 1.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 1,1,2,2-Tetrachloroethane | 5.0        | U         | 5.0 | 1.6 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 1,1,2-Trichloroethane     | 5.0        | U         | 5.0 | 1.7 | ug/L |   |          | 10/31/16 15:25 | 5       |
| <b>1,1-Dichloroethane</b> | <b>1.7</b> | <b>J</b>  | 5.0 | 1.3 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 1,1-Dichloroethene        | 5.0        | U         | 5.0 | 1.4 | ug/L |   |          | 10/31/16 15:25 | 5       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-012

Date Collected: 10/22/16 09:45

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 1,2-Dichloropropane          | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 2-Hexanone                   | 50        | U *       | 50       | 6.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Acetone                      | 50        | U         | 50       | 8.8 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Benzene                      | 5.0       | U         | 5.0      | 1.4 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Bromoform                    | 5.0       | U         | 5.0      | 2.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Bromomethane                 | 5.0       | U         | 5.0      | 2.1 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Carbon disulfide             | 5.0       | U         | 5.0      | 1.7 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Carbon tetrachloride         | 5.0       | U         | 5.0      | 1.8 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Chlorobenzene                | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Chloroethane                 | 5.0       | U         | 5.0      | 2.1 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Chloroform                   | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Chloromethane                | 5.0       | U         | 5.0      | 2.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| cis-1,2-Dichloroethene       | 77        |           | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| cis-1,3-Dichloropropene      | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Dichlorobromomethane         | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Ethylbenzene                 | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 2-Butanone (MEK)             | 50        | U         | 50       | 5.1 | ug/L |   |          | 10/31/16 15:25 | 5       |
| 4-Methyl-2-pentanone (MIBK)  | 50        | U         | 50       | 3.6 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Methylene Chloride           | 5.0       | U         | 5.0      | 2.7 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Styrene                      | 5.0       | U         | 5.0      | 1.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Tetrachloroethene            | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Toluene                      | 5.0       | U         | 5.0      | 1.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| trans-1,2-Dichloroethene     | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 10/31/16 15:25 | 5       |
| trans-1,3-Dichloropropene    | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Trichloroethene              | 5.0       | U         | 5.0      | 1.7 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Vinyl chloride               | 26        |           | 5.0      | 2.3 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Xylenes, Total               | 10        | U         | 10       | 1.2 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Chlorodibromomethane         | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 10/31/16 15:25 | 5       |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 63 - 132 |     |      |   |          | 10/31/16 15:25 | 5       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 73 - 120 |     |      |   |          | 10/31/16 15:25 | 5       |
| Toluene-d8 (Surr)            | 102       |           | 73 - 124 |     |      |   |          | 10/31/16 15:25 | 5       |
| Dibromofluoromethane (Surr)  | 95        |           | 80 - 120 |     |      |   |          | 10/31/16 15:25 | 5       |

Client Sample ID: GW-102216-TW-013

Date Collected: 10/22/16 11:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 19:47 | 1       |
| Acetone                   | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 19:47 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 19:47 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-013

Date Collected: 10/22/16 11:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:47 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:47 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:47 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 19:47 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:47 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 19:47 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 19:47 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 63 - 132 |          | 10/31/16 19:47 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |          | 10/31/16 19:47 | 1       |
| Toluene-d8 (Surr)            | 88        |           | 73 - 124 |          | 10/31/16 19:47 | 1       |
| Dibromofluoromethane (Surr)  | 85        |           | 80 - 120 |          | 10/31/16 19:47 | 1       |

Client Sample ID: GW-102216-TW-014

Date Collected: 10/22/16 12:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 20:09 | 1       |
| Acetone                   | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 20:09 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 20:09 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-014

Date Collected: 10/22/16 12:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 20:09 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:09 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 20:09 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 20:09 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:09 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 20:09 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Vinyl chloride              | 1.9    |           | 1.0 | 0.45 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 20:09 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 20:09 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 63 - 132 |          | 10/31/16 20:09 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |          | 10/31/16 20:09 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 73 - 124 |          | 10/31/16 20:09 | 1       |
| Dibromofluoromethane (Surr)  | 85        |           | 80 - 120 |          | 10/31/16 20:09 | 1       |

Client Sample ID: GW-102216-TW-015

Date Collected: 10/22/16 12:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-5

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 20:31 | 1       |
| Acetone                   | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 20:31 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Chloroethane              | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Chloroform                | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Chloromethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 20:31 | 1       |
| cis-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:31 | 1       |
| cis-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 20:31 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-015

Date Collected: 10/22/16 12:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 20:31 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 20:31 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 20:31 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 20:31 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Vinyl chloride              | 1.8    |           | 1.0 | 0.45 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 20:31 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 20:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 63 - 132 |          | 10/31/16 20:31 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |          | 10/31/16 20:31 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 73 - 124 |          | 10/31/16 20:31 | 1       |
| Dibromofluoromethane (Surr)  | 85        |           | 80 - 120 |          | 10/31/16 20:31 | 1       |

Client Sample ID: GW-102216-TW-016

Date Collected: 10/22/16 13:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.8    | U         | 1.8 | 0.42 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,1,1,2-Tetrachloroethane   | 1.8    | U         | 1.8 | 0.58 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,1,2-Trichloroethane       | 1.8    | U         | 1.8 | 0.62 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,1-Dichloroethane          | 1.8    | U         | 1.8 | 0.46 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,1-Dichloroethene          | 1.8    | U         | 1.8 | 0.49 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,2-Dichloroethane          | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 1,2-Dichloropropane         | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 2-Hexanone                  | 18     | U         | 18  | 2.2  | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Acetone                     | 18     | U         | 18  | 3.2  | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Benzene                     | 1.8    | U         | 1.8 | 0.51 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Bromoform                   | 1.8    | U         | 1.8 | 0.78 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Bromomethane                | 1.8    | U         | 1.8 | 0.76 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Carbon disulfide            | 1.8    | U         | 1.8 | 0.62 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Carbon tetrachloride        | 1.8    | U         | 1.8 | 0.64 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Chlorobenzene               | 1.8    | U         | 1.8 | 0.58 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Chloroethane                | 1.8    | U         | 1.8 | 0.75 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Chloroform                  | 1.8    | U         | 1.8 | 0.56 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Chloromethane               | 1.8    | U         | 1.8 | 0.78 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| cis-1,2-Dichloroethene      | 25     |           | 1.8 | 0.55 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| cis-1,3-Dichloropropene     | 1.8    | U         | 1.8 | 0.47 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Dichlorobromomethane        | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Ethylbenzene                | 1.8    | U         | 1.8 | 0.47 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 2-Butanone (MEK)            | 18     | U *       | 18  | 1.9  | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| 4-Methyl-2-pentanone (MIBK) | 18     | U         | 18  | 1.3  | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Methylene Chloride          | 1.8    | U         | 1.8 | 0.96 | ug/L |   |          | 11/01/16 14:09 | 1.82    |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-016

Date Collected: 10/22/16 13:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-6

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 1.8       | U         | 1.8      | 0.42 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Tetrachloroethene            | 1.8       | U         | 1.8      | 0.55 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Toluene                      | 1.8       | U         | 1.8      | 0.42 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| trans-1,2-Dichloroethene     | 0.78      | J         | 1.8      | 0.53 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| trans-1,3-Dichloropropene    | 1.8       | U         | 1.8      | 0.56 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Trichloroethene              | 1.8       | U         | 1.8      | 0.60 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Vinyl chloride               | 49        |           | 1.8      | 0.82 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Xylenes, Total               | 3.6       | U         | 3.6      | 0.44 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Chlorodibromomethane         | 1.8       | U         | 1.8      | 0.46 | ug/L |   |          | 11/01/16 14:09 | 1.82    |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 63 - 132 |      |      |   |          | 11/01/16 14:09 | 1.82    |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |      |      |   |          | 11/01/16 14:09 | 1.82    |
| Toluene-d8 (Surr)            | 89        |           | 73 - 124 |      |      |   |          | 11/01/16 14:09 | 1.82    |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |      |      |   |          | 11/01/16 14:09 | 1.82    |

Client Sample ID: GW-102216-TW-017

Date Collected: 10/22/16 15:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-7

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 21:16 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 21:16 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 21:16 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:16 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 21:16 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 21:16 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:16 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 21:16 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 21:16 | 1       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-017

Date Collected: 10/22/16 15:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-7

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Trichloroethene              | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Vinyl chloride               | 5.3       |           | 1.0      | 0.45 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.24 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 10/31/16 21:16 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 63 - 132 |      |      |   |          | 10/31/16 21:16 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |      |      |   |          | 10/31/16 21:16 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 73 - 124 |      |      |   |          | 10/31/16 21:16 | 1       |
| Dibromofluoromethane (Surr)  | 84        |           | 80 - 120 |      |      |   |          | 10/31/16 21:16 | 1       |

Client Sample ID: GW-102216-TW-018

Date Collected: 10/22/16 15:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-8

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 21:39 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 21:39 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 21:39 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:39 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 21:39 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 21:39 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 21:39 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 21:39 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Vinyl chloride              | 5.3    |           | 1.0 | 0.45 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 21:39 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 21:39 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107       |           | 63 - 132 |          | 10/31/16 21:39 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81        |           | 73 - 120 |          | 10/31/16 21:39 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 73 - 124 |          | 10/31/16 21:39 | 1       |
| Dibromofluoromethane (Surr)  | 84        |           | 80 - 120 |          | 10/31/16 21:39 | 1       |

Client Sample ID: GW-102216-TW-019

Date Collected: 10/22/16 17:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-9

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 50     | U         | 50  | 12  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,1,1,2-Tetrachloroethane   | 50     | U         | 50  | 16  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,1,2-Trichloroethane       | 50     | U         | 50  | 17  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,1-Dichloroethane          | 50     | U         | 50  | 13  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,1-Dichloroethene          | 50     | U         | 50  | 14  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,2-Dichloroethane          | 50     | U         | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 1,2-Dichloropropane         | 50     | U         | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 2-Hexanone                  | 500    | U         | 500 | 62  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Acetone                     | 500    | U *       | 500 | 88  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Benzene                     | 50     | U         | 50  | 14  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Bromoform                   | 50     | U         | 50  | 22  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Bromomethane                | 50     | U         | 50  | 21  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Carbon disulfide            | 50     | U         | 50  | 17  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Carbon tetrachloride        | 50     | U         | 50  | 18  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Chlorobenzene               | 50     | U         | 50  | 16  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Chloroethane                | 50     | U         | 50  | 21  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Chloroform                  | 50     | U         | 50  | 16  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Chloromethane               | 50     | U         | 50  | 22  | ug/L |   |          | 10/31/16 22:01 | 50      |
| cis-1,2-Dichloroethene      | 860    |           | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| cis-1,3-Dichloropropene     | 50     | U         | 50  | 13  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Dichlorobromomethane        | 50     | U         | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Ethylbenzene                | 50     | U         | 50  | 13  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 2-Butanone (MEK)            | 500    | U *       | 500 | 51  | ug/L |   |          | 10/31/16 22:01 | 50      |
| 4-Methyl-2-pentanone (MIBK) | 500    | U         | 500 | 36  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Methylene Chloride          | 50     | U         | 50  | 27  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Styrene                     | 50     | U         | 50  | 12  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Tetrachloroethene           | 50     | U         | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Toluene                     | 50     | U         | 50  | 12  | ug/L |   |          | 10/31/16 22:01 | 50      |
| trans-1,2-Dichloroethene    | 16     | J         | 50  | 15  | ug/L |   |          | 10/31/16 22:01 | 50      |
| trans-1,3-Dichloropropene   | 50     | U         | 50  | 16  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Trichloroethene             | 50     | U         | 50  | 17  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Vinyl chloride              | 190    |           | 50  | 23  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Xylenes, Total              | 100    | U         | 100 | 12  | ug/L |   |          | 10/31/16 22:01 | 50      |
| Chlorodibromomethane        | 50     | U         | 50  | 13  | ug/L |   |          | 10/31/16 22:01 | 50      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 63 - 132 |          | 10/31/16 22:01 | 50      |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |          | 10/31/16 22:01 | 50      |
| Toluene-d8 (Surr)            | 90        |           | 73 - 124 |          | 10/31/16 22:01 | 50      |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |          | 10/31/16 22:01 | 50      |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102216-TW-020

Date Collected: 10/22/16 18:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-10

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 10/31/16 22:23 | 1       |
| Acetone                     | 10     | U *       | 10  | 1.8  | ug/L |   |          | 10/31/16 22:23 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 22:23 | 1       |
| cis-1,2-Dichloroethene      | 0.35   | J         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:23 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 22:23 | 1       |
| 2-Butanone (MEK)            | 10     | U *       | 10  | 1.0  | ug/L |   |          | 10/31/16 22:23 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:23 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 22:23 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Vinyl chloride              | 0.69   | J         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 22:23 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 22:23 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 63 - 132 |          | 10/31/16 22:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 82        |           | 73 - 120 |          | 10/31/16 22:23 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 73 - 124 |          | 10/31/16 22:23 | 1       |
| Dibromofluoromethane (Surr)  | 86        |           | 80 - 120 |          | 10/31/16 22:23 | 1       |

Client Sample ID: GW-102316-TW-021

Date Collected: 10/23/16 09:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-11

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 330    | U         | 330 | 77  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 1,1,1,2-Tetrachloroethane | 330    | U         | 330 | 110 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 1,1,2-Trichloroethane     | 330    | U         | 330 | 110 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 1,1-Dichloroethane        | 330    | U         | 330 | 83  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 1,1-Dichloroethene        | 330    | U         | 330 | 90  | ug/L |   |          | 10/31/16 15:48 | 333.33  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-021

Date Collected: 10/23/16 09:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-11

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 1,2-Dichloropropane          | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 2-Hexanone                   | 3300      | U *       | 3300     | 410 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Acetone                      | 3300      | U         | 3300     | 590 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Benzene                      | 330       | U         | 330      | 93  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Bromoform                    | 330       | U         | 330      | 140 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Bromomethane                 | 330       | U         | 330      | 140 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Carbon disulfide             | 330       | U         | 330      | 110 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Carbon tetrachloride         | 330       | U         | 330      | 120 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Chlorobenzene                | 330       | U         | 330      | 110 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Chloroethane                 | 330       | U         | 330      | 140 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Chloroform                   | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Chloromethane                | 330       | U         | 330      | 140 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| cis-1,2-Dichloroethene       | 5200      |           | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| cis-1,3-Dichloropropene      | 330       | U         | 330      | 87  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Dichlorobromomethane         | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Ethylbenzene                 | 330       | U         | 330      | 87  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 2-Butanone (MEK)             | 3300      | U         | 3300     | 340 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| 4-Methyl-2-pentanone (MIBK)  | 3300      | U         | 3300     | 240 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Methylene Chloride           | 330       | U         | 330      | 180 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Styrene                      | 330       | U         | 330      | 77  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Tetrachloroethene            | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Toluene                      | 330       | U         | 330      | 77  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| trans-1,2-Dichloroethene     | 330       | U         | 330      | 97  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| trans-1,3-Dichloropropene    | 330       | U         | 330      | 100 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Trichloroethene              | 330       | U         | 330      | 110 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Vinyl chloride               | 350       |           | 330      | 150 | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Xylenes, Total               | 670       | U         | 670      | 80  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Chlorodibromomethane         | 330       | U         | 330      | 83  | ug/L |   |          | 10/31/16 15:48 | 333.33  |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 120       |           | 63 - 132 |     |      |   |          | 10/31/16 15:48 | 333.33  |
| 4-Bromofluorobenzene (Surr)  | 99        |           | 73 - 120 |     |      |   |          | 10/31/16 15:48 | 333.33  |
| Toluene-d8 (Surr)            | 104       |           | 73 - 124 |     |      |   |          | 10/31/16 15:48 | 333.33  |
| Dibromofluoromethane (Surr)  | 94        |           | 80 - 120 |     |      |   |          | 10/31/16 15:48 | 333.33  |

Client Sample ID: GW-102316-TW-022

Date Collected: 10/23/16 10:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-12

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 200    | U         | 200  | 46  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,1,1,2-Tetrachloroethane | 200    | U         | 200  | 64  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,1,2-Trichloroethane     | 200    | U         | 200  | 68  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,1-Dichloroethane        | 200    | U         | 200  | 50  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,1-Dichloroethene        | 200    | U         | 200  | 54  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,2-Dichloroethane        | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 1,2-Dichloropropane       | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 2-Hexanone                | 2000   | U *       | 2000 | 250 | ug/L |   |          | 10/31/16 16:09 | 200     |
| Acetone                   | 2000   | U         | 2000 | 350 | ug/L |   |          | 10/31/16 16:09 | 200     |
| Benzene                   | 200    | U         | 200  | 56  | ug/L |   |          | 10/31/16 16:09 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-022

Date Collected: 10/23/16 10:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-12

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 200    | U         | 200  | 86  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Bromomethane                | 200    | U         | 200  | 84  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 68  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 70  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 64  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Chloroethane                | 200    | U         | 200  | 82  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Chloroform                  | 200    | U         | 200  | 62  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Chloromethane               | 200    | U         | 200  | 86  | ug/L |   |          | 10/31/16 16:09 | 200     |
| cis-1,2-Dichloroethene      | 3200   |           | 200  | 60  | ug/L |   |          | 10/31/16 16:09 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 52  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 52  | ug/L |   |          | 10/31/16 16:09 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 200 | ug/L |   |          | 10/31/16 16:09 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 140 | ug/L |   |          | 10/31/16 16:09 | 200     |
| Methylene Chloride          | 200    | U         | 200  | 110 | ug/L |   |          | 10/31/16 16:09 | 200     |
| Styrene                     | 200    | U         | 200  | 46  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 60  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 10/31/16 16:09 | 200     |
| trans-1,2-Dichloroethene    | 140    | J         | 200  | 58  | ug/L |   |          | 10/31/16 16:09 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 62  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Trichloroethene             | 200    | U         | 200  | 66  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Vinyl chloride              | 100    | J         | 200  | 90  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 48  | ug/L |   |          | 10/31/16 16:09 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 50  | ug/L |   |          | 10/31/16 16:09 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 122       |           | 63 - 132 |          | 10/31/16 16:09 | 200     |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 73 - 120 |          | 10/31/16 16:09 | 200     |
| Toluene-d8 (Surr)            | 110       |           | 73 - 124 |          | 10/31/16 16:09 | 200     |
| Dibromofluoromethane (Surr)  | 98        |           | 80 - 120 |          | 10/31/16 16:09 | 200     |

Client Sample ID: GW-102316-TW-023

Date Collected: 10/23/16 11:45

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-13

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 2-Hexanone                | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 16:32 | 1       |
| Acetone                   | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 16:32 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:32 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-023

Date Collected: 10/23/16 11:45

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-13

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:32 | 1       |
| cis-1,2-Dichloroethene      | 0.70   | J         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:32 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:32 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 16:32 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:32 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 16:32 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 16:32 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 16:32 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 118       |           | 63 - 132 |          | 10/31/16 16:32 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 73 - 120 |          | 10/31/16 16:32 | 1       |
| Toluene-d8 (Surr)            | 109       |           | 73 - 124 |          | 10/31/16 16:32 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 10/31/16 16:32 | 1       |

Client Sample ID: GW-102316-TW-024

Date Collected: 10/23/16 13:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-14

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 16:54 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 16:54 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 16:54 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:54 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:54 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-024

Date Collected: 10/23/16 13:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-14

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 16:54 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 16:54 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 16:54 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 16:54 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 16:54 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 16:54 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 63 - 132 |          | 10/31/16 16:54 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 73 - 120 |          | 10/31/16 16:54 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 73 - 124 |          | 10/31/16 16:54 | 1       |
| Dibromofluoromethane (Surr)  | 94        |           | 80 - 120 |          | 10/31/16 16:54 | 1       |

Client Sample ID: EB-102316-TW-002

Date Collected: 10/23/16 13:50

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-15

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 17:16 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 17:16 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:16 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:16 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:16 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 17:16 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 17:16 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: EB-102316-TW-002

Date Collected: 10/23/16 13:50

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-15

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 10/31/16 17:16 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 10/31/16 17:16 | 1       |
| trans-1,3-Dichloropropene    | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.24 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 10/31/16 17:16 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 63 - 132 |      |      |   |          | 10/31/16 17:16 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 73 - 120 |      |      |   |          | 10/31/16 17:16 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 73 - 124 |      |      |   |          | 10/31/16 17:16 | 1       |
| Dibromofluoromethane (Surr)  | 94        |           | 80 - 120 |      |      |   |          | 10/31/16 17:16 | 1       |

Client Sample ID: GW-102316-TW-025

Date Collected: 10/23/16 15:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-16

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 17:38 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 17:38 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 17:38 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:38 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 17:38 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 17:38 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 17:38 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 17:38 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 17:38 | 1       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-025

Date Collected: 10/23/16 15:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-16

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Trichloroethene      | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Vinyl chloride       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Xylenes, Total       | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 17:38 | 1       |
| Chlorodibromomethane | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 17:38 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 123       |           | 63 - 132 |          | 10/31/16 17:38 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 73 - 120 |          | 10/31/16 17:38 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 73 - 124 |          | 10/31/16 17:38 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 80 - 120 |          | 10/31/16 17:38 | 1       |

Client Sample ID: GW-102316-TW-026

Date Collected: 10/23/16 16:10

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-17

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 18:00 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 18:00 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 18:00 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:00 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 18:00 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 18:00 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:00 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 18:00 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 18:00 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 18:00 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 63 - 132 |          | 10/31/16 18:00 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 10/31/16 18:00 | 1       |
| Toluene-d8 (Surr)            | 99        |           | 73 - 124 |          | 10/31/16 18:00 | 1       |
| Dibromofluoromethane (Surr)  | 96        |           | 80 - 120 |          | 10/31/16 18:00 | 1       |

Client Sample ID: GW-102316-TW-027

Date Collected: 10/23/16 17:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-18

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 8.0    | U         | 8.0 | 1.8 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,1,2,2-Tetrachloroethane   | 8.0    | U         | 8.0 | 2.6 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,1,2-Trichloroethane       | 8.0    | U         | 8.0 | 2.7 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,1-Dichloroethane          | 8.0    | U         | 8.0 | 2.0 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,1-Dichloroethene          | 8.0    | U         | 8.0 | 2.2 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,2-Dichloroethane          | 8.0    | U         | 8.0 | 2.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 1,2-Dichloropropane         | 8.0    | U         | 8.0 | 2.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 2-Hexanone                  | 80     | U *       | 80  | 9.8 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Acetone                     | 80     | U         | 80  | 14  | ug/L |   |          | 10/31/16 18:22 | 8       |
| Benzene                     | 8.0    | U         | 8.0 | 2.2 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Bromoform                   | 8.0    | U         | 8.0 | 3.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Bromomethane                | 8.0    | U         | 8.0 | 3.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Carbon disulfide            | 8.0    | U         | 8.0 | 2.7 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Carbon tetrachloride        | 8.0    | U         | 8.0 | 2.8 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Chlorobenzene               | 8.0    | U         | 8.0 | 2.6 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Chloroethane                | 8.0    | U         | 8.0 | 3.3 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Chloroform                  | 8.0    | U         | 8.0 | 2.5 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Chloromethane               | 8.0    | U         | 8.0 | 3.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| cis-1,2-Dichloroethene      | 12     |           | 8.0 | 2.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| cis-1,3-Dichloropropene     | 8.0    | U         | 8.0 | 2.1 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Dichlorobromomethane        | 8.0    | U         | 8.0 | 2.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Ethylbenzene                | 8.0    | U         | 8.0 | 2.1 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 2-Butanone (MEK)            | 80     | U         | 80  | 8.2 | ug/L |   |          | 10/31/16 18:22 | 8       |
| 4-Methyl-2-pentanone (MIBK) | 80     | U         | 80  | 5.7 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Methylene Chloride          | 8.0    | U         | 8.0 | 4.2 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Styrene                     | 8.0    | U         | 8.0 | 1.8 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Tetrachloroethene           | 8.0    | U         | 8.0 | 2.4 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Toluene                     | 8.0    | U         | 8.0 | 1.8 | ug/L |   |          | 10/31/16 18:22 | 8       |
| trans-1,2-Dichloroethene    | 8.0    | U         | 8.0 | 2.3 | ug/L |   |          | 10/31/16 18:22 | 8       |
| trans-1,3-Dichloropropene   | 8.0    | U         | 8.0 | 2.5 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Trichloroethene             | 140    |           | 8.0 | 2.6 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Vinyl chloride              | 5.3    | J         | 8.0 | 3.6 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Xylenes, Total              | 16     | U         | 16  | 1.9 | ug/L |   |          | 10/31/16 18:22 | 8       |
| Chlorodibromomethane        | 8.0    | U         | 8.0 | 2.0 | ug/L |   |          | 10/31/16 18:22 | 8       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 125       |           | 63 - 132 |          | 10/31/16 18:22 | 8       |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 73 - 120 |          | 10/31/16 18:22 | 8       |
| Toluene-d8 (Surr)            | 105       |           | 73 - 124 |          | 10/31/16 18:22 | 8       |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 10/31/16 18:22 | 8       |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102316-TW-028

Date Collected: 10/23/16 18:40

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-19

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 18:45 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 18:45 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 18:45 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:45 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 18:45 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 18:45 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 18:45 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 18:45 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 18:45 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 18:45 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 63 - 132 |          | 10/31/16 18:45 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 73 - 120 |          | 10/31/16 18:45 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 73 - 124 |          | 10/31/16 18:45 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 80 - 120 |          | 10/31/16 18:45 | 1       |

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-20

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 19:07 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-029

Date Collected: 10/24/16 10:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-20

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 1,2-Dichloropropane          | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 2-Hexanone                   | 10        | U *       | 10       | 1.2  | ug/L |   |          | 10/31/16 19:07 | 1       |
| Acetone                      | 10        | U         | 10       | 1.8  | ug/L |   |          | 10/31/16 19:07 | 1       |
| Benzene                      | 1.0       | U         | 1.0      | 0.28 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Bromoform                    | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Bromomethane                 | 1.0       | U         | 1.0      | 0.42 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Carbon disulfide             | 1.0       | U         | 1.0      | 0.34 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Carbon tetrachloride         | 1.0       | U         | 1.0      | 0.35 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Chlorobenzene                | 1.0       | U         | 1.0      | 0.32 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Chloroethane                 | 1.0       | U         | 1.0      | 0.41 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Chloroform                   | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Chloromethane                | 1.0       | U         | 1.0      | 0.43 | ug/L |   |          | 10/31/16 19:07 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 19:07 | 1       |
| cis-1,3-Dichloropropene      | 1.0       | U         | 1.0      | 0.26 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Dichlorobromomethane         | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Ethylbenzene                 | 1.0       | U         | 1.0      | 0.26 | ug/L |   |          | 10/31/16 19:07 | 1       |
| 2-Butanone (MEK)             | 10        | U         | 10       | 1.0  | ug/L |   |          | 10/31/16 19:07 | 1       |
| 4-Methyl-2-pentanone (MIBK)  | 10        | U         | 10       | 0.71 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Methylene Chloride           | 1.0       | U         | 1.0      | 0.53 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Styrene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 10/31/16 19:07 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 10/31/16 19:07 | 1       |
| trans-1,3-Dichloropropene    | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.24 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 10/31/16 19:07 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121       |           | 63 - 132 |      |      |   |          | 10/31/16 19:07 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |      |      |   |          | 10/31/16 19:07 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 73 - 124 |      |      |   |          | 10/31/16 19:07 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |      |      |   |          | 10/31/16 19:07 | 1       |

Client Sample ID: GW-102416-TW-030

Date Collected: 10/24/16 11:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-21

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,1,1,2-Trichloroethane   | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 2-Hexanone                | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 19:28 | 1       |
| Acetone                   | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 19:28 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 19:28 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-030

Date Collected: 10/24/16 11:30

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-21

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 19:28 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:28 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 19:28 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 19:28 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 19:28 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 19:28 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 19:28 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 19:28 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 121       |           | 63 - 132 |          | 10/31/16 19:28 | 1       |
| 4-Bromofluorobenzene (Surr)  | 95        |           | 73 - 120 |          | 10/31/16 19:28 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 73 - 124 |          | 10/31/16 19:28 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 80 - 120 |          | 10/31/16 19:28 | 1       |

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-22

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,1,2,2-Tetrachloroethane | 560    | U         | 560  | 180 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,1,2-Trichloroethane     | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,1-Dichloroethane        | 330    | J         | 560  | 140 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,1-Dichloroethene        | 560    | U         | 560  | 150 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,2-Dichloroethane        | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 1,2-Dichloropropane       | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 2-Hexanone                | 5600   | U *       | 5600 | 680 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Acetone                   | 5600   | U         | 5600 | 980 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Benzene                   | 560    | U         | 560  | 160 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Bromoform                 | 560    | U         | 560  | 240 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Bromomethane              | 560    | U         | 560  | 230 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Carbon disulfide          | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Carbon tetrachloride      | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Chlorobenzene             | 560    | U         | 560  | 180 | ug/L |   |          | 10/31/16 19:50 | 555.56  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-031

Date Collected: 10/24/16 12:35

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-22

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Chloroethane                | 560    | U         | 560  | 230 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Chloroform                  | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Chloromethane               | 560    | U         | 560  | 240 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| cis-1,2-Dichloroethene      | 7900   |           | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| cis-1,3-Dichloropropene     | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Dichlorobromomethane        | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Ethylbenzene                | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 2-Butanone (MEK)            | 5600   | U         | 5600 | 570 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| 4-Methyl-2-pentanone (MIBK) | 5600   | U         | 5600 | 390 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Methylene Chloride          | 560    | U         | 560  | 290 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Styrene                     | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Tetrachloroethene           | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Toluene                     | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| trans-1,2-Dichloroethene    | 200    | J         | 560  | 160 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| trans-1,3-Dichloropropene   | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Trichloroethene             | 1700   |           | 560  | 180 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Vinyl chloride              | 630    |           | 560  | 250 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Xylenes, Total              | 1100   | U         | 1100 | 130 | ug/L |   |          | 10/31/16 19:50 | 555.56  |
| Chlorodibromomethane        | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 19:50 | 555.56  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 123       |           | 63 - 132 |          | 10/31/16 19:50 | 555.56  |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |          | 10/31/16 19:50 | 555.56  |
| Toluene-d8 (Surr)            | 106       |           | 73 - 124 |          | 10/31/16 19:50 | 555.56  |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 10/31/16 19:50 | 555.56  |

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-23

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,1,1,2,2-Tetrachloroethane | 560    | U         | 560  | 180 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,1,2-Trichloroethane       | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,1-Dichloroethane          | 340    | J         | 560  | 140 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,1-Dichloroethene          | 560    | U         | 560  | 150 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,2-Dichloroethane          | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 1,2-Dichloropropane         | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 2-Hexanone                  | 5600   | U *       | 5600 | 680 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Acetone                     | 5600   | U         | 5600 | 980 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Benzene                     | 560    | U         | 560  | 160 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Bromoform                   | 560    | U         | 560  | 240 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Bromomethane                | 560    | U         | 560  | 230 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Carbon disulfide            | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Carbon tetrachloride        | 560    | U         | 560  | 190 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Chlorobenzene               | 560    | U         | 560  | 180 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Chloroethane                | 560    | U         | 560  | 230 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Chloroform                  | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Chloromethane               | 560    | U         | 560  | 240 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| cis-1,2-Dichloroethene      | 8400   |           | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| cis-1,3-Dichloropropene     | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 20:13 | 555.56  |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-032

Date Collected: 10/24/16 14:00

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-23

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Ethylbenzene                | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 2-Butanone (MEK)            | 5600   | U         | 5600 | 570 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| 4-Methyl-2-pentanone (MIBK) | 5600   | U         | 5600 | 390 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Methylene Chloride          | 560    | U         | 560  | 290 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Styrene                     | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Tetrachloroethene           | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Toluene                     | 560    | U         | 560  | 130 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| trans-1,2-Dichloroethene    | 260    | J         | 560  | 160 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| trans-1,3-Dichloropropene   | 560    | U         | 560  | 170 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Trichloroethene             | 560    | U         | 560  | 180 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Vinyl chloride              | 420    | J         | 560  | 250 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Xylenes, Total              | 1100   | U         | 1100 | 130 | ug/L |   |          | 10/31/16 20:13 | 555.56  |
| Chlorodibromomethane        | 560    | U         | 560  | 140 | ug/L |   |          | 10/31/16 20:13 | 555.56  |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 63 - 132 |          | 10/31/16 20:13 | 555.56  |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 73 - 120 |          | 10/31/16 20:13 | 555.56  |
| Toluene-d8 (Surr)            | 98        |           | 73 - 124 |          | 10/31/16 20:13 | 555.56  |
| Dibromofluoromethane (Surr)  | 90        |           | 80 - 120 |          | 10/31/16 20:13 | 555.56  |

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-24

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 2.0    | U         | 2.0 | 0.46 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,1,2,2-Tetrachloroethane   | 2.0    | U         | 2.0 | 0.64 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,1,2-Trichloroethane       | 2.0    | U         | 2.0 | 0.68 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,1-Dichloroethane          | 2.0    | U         | 2.0 | 0.50 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,1-Dichloroethene          | 2.0    | U         | 2.0 | 0.54 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,2-Dichloroethane          | 2.0    | U         | 2.0 | 0.60 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 1,2-Dichloropropane         | 2.0    | U         | 2.0 | 0.60 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 2-Hexanone                  | 20     | U *       | 20  | 2.5  | ug/L |   |          | 11/01/16 15:23 | 2       |
| Acetone                     | 20     | U         | 20  | 3.5  | ug/L |   |          | 11/01/16 15:23 | 2       |
| Benzene                     | 2.0    | U         | 2.0 | 0.56 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Bromoform                   | 2.0    | U         | 2.0 | 0.86 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Bromomethane                | 2.0    | U         | 2.0 | 0.84 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Carbon disulfide            | 2.0    | U         | 2.0 | 0.68 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Carbon tetrachloride        | 2.0    | U         | 2.0 | 0.70 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Chlorobenzene               | 2.0    | U         | 2.0 | 0.64 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Chloroethane                | 2.0    | U         | 2.0 | 0.82 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Chloroform                  | 2.0    | U         | 2.0 | 0.62 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Chloromethane               | 2.0    | U         | 2.0 | 0.86 | ug/L |   |          | 11/01/16 15:23 | 2       |
| cis-1,2-Dichloroethene      | 4.2    |           | 2.0 | 0.60 | ug/L |   |          | 11/01/16 15:23 | 2       |
| cis-1,3-Dichloropropene     | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Dichlorobromomethane        | 2.0    | U         | 2.0 | 0.60 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Ethylbenzene                | 2.0    | U         | 2.0 | 0.52 | ug/L |   |          | 11/01/16 15:23 | 2       |
| 2-Butanone (MEK)            | 20     | U         | 20  | 2.0  | ug/L |   |          | 11/01/16 15:23 | 2       |
| 4-Methyl-2-pentanone (MIBK) | 20     | U         | 20  | 1.4  | ug/L |   |          | 11/01/16 15:23 | 2       |
| Methylene Chloride          | 2.0    | U         | 2.0 | 1.1  | ug/L |   |          | 11/01/16 15:23 | 2       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-033

Date Collected: 10/24/16 15:20

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-24

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 2.0       | U         | 2.0      | 0.46 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Tetrachloroethene            | 2.0       | U         | 2.0      | 0.60 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Toluene                      | 2.0       | U         | 2.0      | 0.46 | ug/L |   |          | 11/01/16 15:23 | 2       |
| trans-1,2-Dichloroethene     | 2.0       | U         | 2.0      | 0.58 | ug/L |   |          | 11/01/16 15:23 | 2       |
| trans-1,3-Dichloropropene    | 2.0       | U         | 2.0      | 0.62 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Trichloroethene              | 2.0       | U         | 2.0      | 0.66 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Vinyl chloride               | 46        |           | 2.0      | 0.90 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Xylenes, Total               | 4.0       | U         | 4.0      | 0.48 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Chlorodibromomethane         | 2.0       | U         | 2.0      | 0.50 | ug/L |   |          | 11/01/16 15:23 | 2       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 117       |           | 63 - 132 |      |      |   |          | 11/01/16 15:23 | 2       |
| 4-Bromofluorobenzene (Surr)  | 93        |           | 73 - 120 |      |      |   |          | 11/01/16 15:23 | 2       |
| Toluene-d8 (Surr)            | 103       |           | 73 - 124 |      |      |   |          | 11/01/16 15:23 | 2       |
| Dibromofluoromethane (Surr)  | 95        |           | 80 - 120 |      |      |   |          | 11/01/16 15:23 | 2       |

Client Sample ID: SW-102416-TW-001

Date Collected: 10/24/16 16:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-25

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.8    | U         | 1.8 | 0.42 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,1,2,2-Tetrachloroethane   | 1.8    | U         | 1.8 | 0.58 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,1,2-Trichloroethane       | 1.8    | U         | 1.8 | 0.62 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,1-Dichloroethane          | 1.8    |           | 1.8 | 0.46 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,1-Dichloroethene          | 1.8    | U         | 1.8 | 0.49 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,2-Dichloroethane          | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 1,2-Dichloropropane         | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 2-Hexanone                  | 18     | U *       | 18  | 2.2  | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Acetone                     | 18     | U         | 18  | 3.2  | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Benzene                     | 1.8    | U         | 1.8 | 0.51 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Bromoform                   | 1.8    | U         | 1.8 | 0.78 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Bromomethane                | 1.8    | U         | 1.8 | 0.76 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Carbon disulfide            | 1.8    | U         | 1.8 | 0.62 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Carbon tetrachloride        | 1.8    | U         | 1.8 | 0.64 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Chlorobenzene               | 1.8    | U         | 1.8 | 0.58 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Chloroethane                | 1.8    | U         | 1.8 | 0.75 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Chloroform                  | 1.8    | U         | 1.8 | 0.56 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Chloromethane               | 1.8    | U         | 1.8 | 0.78 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| cis-1,2-Dichloroethene      | 36     |           | 1.8 | 0.55 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| cis-1,3-Dichloropropene     | 1.8    | U         | 1.8 | 0.47 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Dichlorobromomethane        | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Ethylbenzene                | 1.8    | U         | 1.8 | 0.47 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 2-Butanone (MEK)            | 18     | U         | 18  | 1.9  | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| 4-Methyl-2-pentanone (MIBK) | 18     | U         | 18  | 1.3  | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Methylene Chloride          | 1.8    | U         | 1.8 | 0.96 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Styrene                     | 1.8    | U         | 1.8 | 0.42 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Tetrachloroethene           | 1.8    | U         | 1.8 | 0.55 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Toluene                     | 1.8    | U         | 1.8 | 0.42 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| trans-1,2-Dichloroethene    | 1.0    | J         | 1.8 | 0.53 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| trans-1,3-Dichloropropene   | 1.8    | U         | 1.8 | 0.56 | ug/L |   |          | 10/31/16 20:57 | 1.82    |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: SW-102416-TW-001

Date Collected: 10/24/16 16:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-25

Matrix: Water

| Analyte                      | Result     | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| Trichloroethene              | 1.8        | U         | 1.8      | 0.60 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| <b>Vinyl chloride</b>        | <b>3.1</b> |           | 1.8      | 0.82 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Xylenes, Total               | 3.6        | U         | 3.6      | 0.44 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Chlorodibromomethane         | 1.8        | U         | 1.8      | 0.46 | ug/L |   |          | 10/31/16 20:57 | 1.82    |
| Surrogate                    | %Recovery  | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 119        |           | 63 - 132 |      |      |   |          | 10/31/16 20:57 | 1.82    |
| 4-Bromofluorobenzene (Surr)  | 95         |           | 73 - 120 |      |      |   |          | 10/31/16 20:57 | 1.82    |
| Toluene-d8 (Surr)            | 108        |           | 73 - 124 |      |      |   |          | 10/31/16 20:57 | 1.82    |
| Dibromofluoromethane (Surr)  | 97         |           | 80 - 120 |      |      |   |          | 10/31/16 20:57 | 1.82    |

Client Sample ID: SW-102416-TW-002

Date Collected: 10/24/16 16:15

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-26

Matrix: Water

| Analyte                         | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane           | 2.0         | U         | 2.0 | 0.46 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 1,1,2,2-Tetrachloroethane       | 2.0         | U         | 2.0 | 0.64 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 1,1,2-Trichloroethane           | 2.0         | U         | 2.0 | 0.68 | ug/L |   |          | 10/31/16 21:19 | 2       |
| <b>1,1-Dichloroethane</b>       | <b>1.8</b>  | <b>J</b>  | 2.0 | 0.50 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 1,1-Dichloroethene              | 2.0         | U         | 2.0 | 0.54 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 1,2-Dichloroethane              | 2.0         | U         | 2.0 | 0.60 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 1,2-Dichloropropane             | 2.0         | U         | 2.0 | 0.60 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 2-Hexanone                      | 20          | U *       | 20  | 2.5  | ug/L |   |          | 10/31/16 21:19 | 2       |
| Acetone                         | 20          | U         | 20  | 3.5  | ug/L |   |          | 10/31/16 21:19 | 2       |
| Benzene                         | 2.0         | U         | 2.0 | 0.56 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Bromoform                       | 2.0         | U         | 2.0 | 0.86 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Bromomethane                    | 2.0         | U         | 2.0 | 0.84 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Carbon disulfide                | 2.0         | U         | 2.0 | 0.68 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Carbon tetrachloride            | 2.0         | U         | 2.0 | 0.70 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Chlorobenzene                   | 2.0         | U         | 2.0 | 0.64 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Chloroethane                    | 2.0         | U         | 2.0 | 0.82 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Chloroform                      | 2.0         | U         | 2.0 | 0.62 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Chloromethane                   | 2.0         | U         | 2.0 | 0.86 | ug/L |   |          | 10/31/16 21:19 | 2       |
| <b>cis-1,2-Dichloroethene</b>   | <b>34</b>   |           | 2.0 | 0.60 | ug/L |   |          | 10/31/16 21:19 | 2       |
| cis-1,3-Dichloropropene         | 2.0         | U         | 2.0 | 0.52 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Dichlorobromomethane            | 2.0         | U         | 2.0 | 0.60 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Ethylbenzene                    | 2.0         | U         | 2.0 | 0.52 | ug/L |   |          | 10/31/16 21:19 | 2       |
| 2-Butanone (MEK)                | 20          | U         | 20  | 2.0  | ug/L |   |          | 10/31/16 21:19 | 2       |
| 4-Methyl-2-pentanone (MIBK)     | 20          | U         | 20  | 1.4  | ug/L |   |          | 10/31/16 21:19 | 2       |
| Methylene Chloride              | 2.0         | U         | 2.0 | 1.1  | ug/L |   |          | 10/31/16 21:19 | 2       |
| Styrene                         | 2.0         | U         | 2.0 | 0.46 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Tetrachloroethene               | 2.0         | U         | 2.0 | 0.60 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Toluene                         | 2.0         | U         | 2.0 | 0.46 | ug/L |   |          | 10/31/16 21:19 | 2       |
| <b>trans-1,2-Dichloroethene</b> | <b>0.90</b> | <b>J</b>  | 2.0 | 0.58 | ug/L |   |          | 10/31/16 21:19 | 2       |
| trans-1,3-Dichloropropene       | 2.0         | U         | 2.0 | 0.62 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Trichloroethene                 | 2.0         | U         | 2.0 | 0.66 | ug/L |   |          | 10/31/16 21:19 | 2       |
| <b>Vinyl chloride</b>           | <b>2.9</b>  |           | 2.0 | 0.90 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Xylenes, Total                  | 4.0         | U         | 4.0 | 0.48 | ug/L |   |          | 10/31/16 21:19 | 2       |
| Chlorodibromomethane            | 2.0         | U         | 2.0 | 0.50 | ug/L |   |          | 10/31/16 21:19 | 2       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 63 - 132 |          | 10/31/16 21:19 | 2       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 73 - 120 |          | 10/31/16 21:19 | 2       |
| Toluene-d8 (Surr)            | 102       |           | 73 - 124 |          | 10/31/16 21:19 | 2       |
| Dibromofluoromethane (Surr)  | 92        |           | 80 - 120 |          | 10/31/16 21:19 | 2       |

Client Sample ID: SW-102416-TW-003

Date Collected: 10/24/16 16:25

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-27

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 33     | U         | 33  | 7.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,1,1,2-Tetrachloroethane   | 33     | U         | 33  | 11  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,1,2-Trichloroethane       | 33     | U         | 33  | 11  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,1-Dichloroethane          | 26     | J         | 33  | 8.3 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,1-Dichloroethene          | 33     | U         | 33  | 9.0 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,2-Dichloroethane          | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 1,2-Dichloropropane         | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 2-Hexanone                  | 330    | U *       | 330 | 41  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Acetone                     | 330    | U         | 330 | 59  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Benzene                     | 33     | U         | 33  | 9.3 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Bromoform                   | 33     | U         | 33  | 14  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Bromomethane                | 33     | U         | 33  | 14  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Carbon disulfide            | 33     | U         | 33  | 11  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Carbon tetrachloride        | 33     | U         | 33  | 12  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Chlorobenzene               | 33     | U         | 33  | 11  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Chloroethane                | 33     | U         | 33  | 14  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Chloroform                  | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Chloromethane               | 33     | U         | 33  | 14  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| cis-1,2-Dichloroethene      | 500    |           | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| cis-1,3-Dichloropropene     | 33     | U         | 33  | 8.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Dichlorobromomethane        | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Ethylbenzene                | 33     | U         | 33  | 8.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 2-Butanone (MEK)            | 330    | U         | 330 | 34  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| 4-Methyl-2-pentanone (MIBK) | 330    | U         | 330 | 24  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Methylene Chloride          | 33     | U         | 33  | 18  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Styrene                     | 33     | U         | 33  | 7.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Tetrachloroethene           | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Toluene                     | 33     | U         | 33  | 7.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| trans-1,2-Dichloroethene    | 21     | J         | 33  | 9.7 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| trans-1,3-Dichloropropene   | 33     | U         | 33  | 10  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Trichloroethene             | 33     | U         | 33  | 11  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Vinyl chloride              | 33     | U         | 33  | 15  | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Xylenes, Total              | 67     | U         | 67  | 8.0 | ug/L |   |          | 10/31/16 21:41 | 33.33   |
| Chlorodibromomethane        | 33     | U         | 33  | 8.3 | ug/L |   |          | 10/31/16 21:41 | 33.33   |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 63 - 132 |          | 10/31/16 21:41 | 33.33   |
| 4-Bromofluorobenzene (Surr)  | 98        |           | 73 - 120 |          | 10/31/16 21:41 | 33.33   |
| Toluene-d8 (Surr)            | 104       |           | 73 - 124 |          | 10/31/16 21:41 | 33.33   |
| Dibromofluoromethane (Surr)  | 104       |           | 80 - 120 |          | 10/31/16 21:41 | 33.33   |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Client Sample ID: GW-102416-TW-034

Date Collected: 10/24/16 18:25

Date Received: 10/25/16 09:45

Lab Sample ID: 240-71258-28

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 2-Hexanone                  | 10     | U *       | 10  | 1.2  | ug/L |   |          | 10/31/16 22:03 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 10/31/16 22:03 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 10/31/16 22:03 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:03 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 10/31/16 22:03 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 10/31/16 22:03 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 10/31/16 22:03 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 10/31/16 22:03 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 10/31/16 22:03 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 10/31/16 22:03 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119       |           | 63 - 132 |          | 10/31/16 22:03 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 73 - 120 |          | 10/31/16 22:03 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 73 - 124 |          | 10/31/16 22:03 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 10/31/16 22:03 | 1       |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|--------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                  |                    | 12DCE<br>(63-132)                              | BFB<br>(73-120) | TOL<br>(73-124) | DBFM<br>(80-120) |
| 240-71258-1      | TB-102216-TW-003   | 105                                            | 81              | 89              | 86               |
| 240-71258-2      | GW-102216-TW-012   | 115                                            | 98              | 102             | 95               |
| 240-71258-2 MS   | GW-102216-TW-012   | 115                                            | 102             | 106             | 95               |
| 240-71258-2 MSD  | GW-102216-TW-012   | 113                                            | 95              | 102             | 92               |
| 240-71258-3      | GW-102216-TW-013   | 102                                            | 81              | 88              | 85               |
| 240-71258-4      | GW-102216-TW-014   | 104                                            | 84              | 90              | 85               |
| 240-71258-5      | GW-102216-TW-015   | 104                                            | 81              | 89              | 85               |
| 240-71258-6      | GW-102216-TW-016   | 103                                            | 81              | 89              | 86               |
| 240-71258-7      | GW-102216-TW-017   | 104                                            | 81              | 90              | 84               |
| 240-71258-8      | GW-102216-TW-018   | 107                                            | 81              | 90              | 84               |
| 240-71258-9      | GW-102216-TW-019   | 103                                            | 84              | 90              | 86               |
| 240-71258-10     | GW-102216-TW-020   | 106                                            | 82              | 92              | 86               |
| 240-71258-11     | GW-102316-TW-021   | 120                                            | 99              | 104             | 94               |
| 240-71258-12     | GW-102316-TW-022   | 122                                            | 92              | 110             | 98               |
| 240-71258-13     | GW-102316-TW-023   | 118                                            | 94              | 109             | 97               |
| 240-71258-14     | GW-102316-TW-024   | 119                                            | 94              | 104             | 94               |
| 240-71258-15     | EB-102316-TW-002   | 111                                            | 92              | 106             | 94               |
| 240-71258-16     | GW-102316-TW-025   | 123                                            | 95              | 105             | 99               |
| 240-71258-17     | GW-102316-TW-026   | 119                                            | 87              | 99              | 96               |
| 240-71258-18     | GW-102316-TW-027   | 125                                            | 98              | 105             | 97               |
| 240-71258-19     | GW-102316-TW-028   | 119                                            | 95              | 97              | 98               |
| 240-71258-20     | GW-102416-TW-029   | 121                                            | 84              | 105             | 100              |
| 240-71258-21     | GW-102416-TW-030   | 121                                            | 95              | 101             | 99               |
| 240-71258-22     | GW-102416-TW-031   | 123                                            | 84              | 106             | 97               |
| 240-71258-23     | GW-102416-TW-032   | 112                                            | 88              | 98              | 90               |
| 240-71258-24     | GW-102416-TW-033   | 117                                            | 93              | 103             | 95               |
| 240-71258-25     | SW-102416-TW-001   | 119                                            | 95              | 108             | 97               |
| 240-71258-26     | SW-102416-TW-002   | 110                                            | 92              | 102             | 92               |
| 240-71258-27     | SW-102416-TW-003   | 119                                            | 98              | 104             | 104              |
| 240-71258-28     | GW-102416-TW-034   | 119                                            | 100             | 106             | 97               |
| LCS 240-253720/4 | Lab Control Sample | 98                                             | 91              | 91              | 89               |
| LCS 240-253722/4 | Lab Control Sample | 120                                            | 107             | 108             | 99               |
| LCS 240-253846/4 | Lab Control Sample | 114                                            | 103             | 108             | 95               |
| LCS 240-253849/4 | Lab Control Sample | 98                                             | 88              | 91              | 87               |
| MB 240-253720/6  | Method Blank       | 102                                            | 80              | 90              | 84               |
| MB 240-253722/6  | Method Blank       | 121                                            | 100             | 110             | 95               |
| MB 240-253846/6  | Method Blank       | 114                                            | 94              | 102             | 94               |
| MB 240-253849/6  | Method Blank       | 105                                            | 81              | 90              | 85               |

## Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: MB 240-253720/6

Matrix: Water

Analysis Batch: 253720

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 10/31/16 14:55 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 10/31/16 14:55 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 14:55 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:55 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 14:55 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 10/31/16 14:55 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:55 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/31/16 14:55 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 10/31/16 14:55 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 14:55 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102          |              | 63 - 132 |          | 10/31/16 14:55 | 1       |
| 4-Bromofluorobenzene (Surr)  | 80           |              | 73 - 120 |          | 10/31/16 14:55 | 1       |
| Toluene-d8 (Surr)            | 90           |              | 73 - 124 |          | 10/31/16 14:55 | 1       |
| Dibromofluoromethane (Surr)  | 84           |              | 80 - 120 |          | 10/31/16 14:55 | 1       |

Lab Sample ID: LCS 240-253720/4

Matrix: Water

Analysis Batch: 253720

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-Trichloroethane     | 10.0        | 9.16       |               | ug/L |   | 92   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 9.62       |               | ug/L |   | 96   | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: LCS 240-253720/4

Matrix: Water

Analysis Batch: 253720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 10.0        | 9.93       |               | ug/L |   | 99   | 80 - 120     |
| 1,1-Dichloroethane          | 10.0        | 9.17       |               | ug/L |   | 92   | 77 - 121     |
| 1,1-Dichloroethene          | 10.0        | 8.91       |               | ug/L |   | 89   | 70 - 141     |
| 1,2-Dichloroethane          | 10.0        | 10.7       |               | ug/L |   | 107  | 76 - 130     |
| 1,2-Dichloropropane         | 10.0        | 9.61       |               | ug/L |   | 96   | 79 - 121     |
| 2-Hexanone                  | 20.0        | 21.7       |               | ug/L |   | 108  | 56 - 124     |
| Acetone                     | 20.0        | 25.1       | *             | ug/L |   | 126  | 46 - 120     |
| Benzene                     | 10.0        | 9.43       |               | ug/L |   | 94   | 80 - 120     |
| Bromoform                   | 10.0        | 7.73       |               | ug/L |   | 77   | 52 - 157     |
| Bromomethane                | 10.0        | 6.36       |               | ug/L |   | 64   | 24 - 160     |
| Carbon disulfide            | 10.0        | 8.64       |               | ug/L |   | 86   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 9.32       |               | ug/L |   | 93   | 69 - 149     |
| Chlorobenzene               | 10.0        | 9.34       |               | ug/L |   | 93   | 80 - 120     |
| Chloroethane                | 10.0        | 6.25       |               | ug/L |   | 63   | 24 - 147     |
| Chloroform                  | 10.0        | 9.92       |               | ug/L |   | 99   | 80 - 120     |
| Chloromethane               | 10.0        | 11.4       |               | ug/L |   | 114  | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 9.33       |               | ug/L |   | 93   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.71       |               | ug/L |   | 87   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 9.43       |               | ug/L |   | 94   | 76 - 125     |
| Ethylbenzene                | 10.0        | 9.40       |               | ug/L |   | 94   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 9.38       |               | ug/L |   | 94   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 26.2       | *             | ug/L |   | 131  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 21.0       |               | ug/L |   | 105  | 60 - 131     |
| Methylene Chloride          | 10.0        | 9.99       |               | ug/L |   | 100  | 68 - 136     |
| o-Xylene                    | 10.0        | 9.10       |               | ug/L |   | 91   | 80 - 120     |
| Styrene                     | 10.0        | 9.68       |               | ug/L |   | 97   | 80 - 120     |
| Tetrachloroethene           | 10.0        | 9.27       |               | ug/L |   | 93   | 80 - 123     |
| Toluene                     | 10.0        | 9.90       |               | ug/L |   | 99   | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 9.37       |               | ug/L |   | 94   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 8.74       |               | ug/L |   | 87   | 65 - 120     |
| Trichloroethene             | 10.0        | 9.25       |               | ug/L |   | 93   | 80 - 122     |
| Vinyl chloride              | 10.0        | 10.9       |               | ug/L |   | 109  | 60 - 129     |
| Xylenes, Total              | 20.0        | 18.5       |               | ug/L |   | 92   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 8.76       |               | ug/L |   | 88   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 91            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 91            |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 89            |               | 80 - 120 |

Lab Sample ID: MB 240-253722/6

Matrix: Water

Analysis Batch: 253722

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 14:53 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: MB 240-253722/6

Matrix: Water

Analysis Batch: 253722

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 10/31/16 14:53 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 10/31/16 14:53 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 10/31/16 14:53 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:53 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 10/31/16 14:53 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 10/31/16 14:53 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 10/31/16 14:53 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 10/31/16 14:53 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 10/31/16 14:53 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 10/31/16 14:53 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 121          |              | 63 - 132 |          | 10/31/16 14:53 | 1       |
| 4-Bromofluorobenzene (Surr)  | 100          |              | 73 - 120 |          | 10/31/16 14:53 | 1       |
| Toluene-d8 (Surr)            | 110          |              | 73 - 124 |          | 10/31/16 14:53 | 1       |
| Dibromofluoromethane (Surr)  | 95           |              | 80 - 120 |          | 10/31/16 14:53 | 1       |

Lab Sample ID: LCS 240-253722/4

Matrix: Water

Analysis Batch: 253722

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-Trichloroethane     | 10.0        | 9.45       |               | ug/L |   | 95   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 9.71       |               | ug/L |   | 97   | 61 - 130     |
| 1,1,2-Trichloroethane     | 10.0        | 10.0       |               | ug/L |   | 100  | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 8.97       |               | ug/L |   | 90   | 77 - 121     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: LCS 240-253722/4

Matrix: Water

Analysis Batch: 253722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethene          | 10.0        | 7.99       |               | ug/L |   | 80   | 70 - 141     |
| 1,2-Dichloroethane          | 10.0        | 10.8       |               | ug/L |   | 108  | 76 - 130     |
| 1,2-Dichloropropane         | 10.0        | 9.79       |               | ug/L |   | 98   | 79 - 121     |
| 2-Hexanone                  | 20.0        | 26.0       | *             | ug/L |   | 130  | 56 - 124     |
| Acetone                     | 20.0        | 20.2       |               | ug/L |   | 101  | 46 - 120     |
| Benzene                     | 10.0        | 8.95       |               | ug/L |   | 89   | 80 - 120     |
| Bromoform                   | 10.0        | 8.98       |               | ug/L |   | 90   | 52 - 157     |
| Bromomethane                | 10.0        | 5.83       |               | ug/L |   | 58   | 24 - 160     |
| Carbon disulfide            | 10.0        | 7.86       |               | ug/L |   | 79   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 10.8       |               | ug/L |   | 108  | 69 - 149     |
| Chlorobenzene               | 10.0        | 9.21       |               | ug/L |   | 92   | 80 - 120     |
| Chloroethane                | 10.0        | 4.89       |               | ug/L |   | 49   | 24 - 147     |
| Chloroform                  | 10.0        | 9.36       |               | ug/L |   | 94   | 80 - 120     |
| Chloromethane               | 10.0        | 9.27       |               | ug/L |   | 93   | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 8.45       |               | ug/L |   | 84   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.63       |               | ug/L |   | 86   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 9.34       |               | ug/L |   | 93   | 76 - 125     |
| Ethylbenzene                | 10.0        | 9.40       |               | ug/L |   | 94   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 8.99       |               | ug/L |   | 90   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 21.1       |               | ug/L |   | 105  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 20.5       |               | ug/L |   | 102  | 60 - 131     |
| Methylene Chloride          | 10.0        | 7.52       |               | ug/L |   | 75   | 68 - 136     |
| o-Xylene                    | 10.0        | 8.96       |               | ug/L |   | 90   | 80 - 120     |
| Styrene                     | 10.0        | 9.26       |               | ug/L |   | 93   | 80 - 120     |
| Tetrachloroethene           | 10.0        | 9.94       |               | ug/L |   | 99   | 80 - 123     |
| Toluene                     | 10.0        | 9.87       |               | ug/L |   | 99   | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 8.55       |               | ug/L |   | 86   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 9.21       |               | ug/L |   | 92   | 65 - 120     |
| Trichloroethene             | 10.0        | 8.86       |               | ug/L |   | 89   | 80 - 122     |
| Vinyl chloride              | 10.0        | 8.39       |               | ug/L |   | 84   | 60 - 129     |
| Xylenes, Total              | 20.0        | 18.0       |               | ug/L |   | 90   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 9.32       |               | ug/L |   | 93   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 120           |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 107           |               | 73 - 120 |
| Toluene-d8 (Surr)            | 108           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 99            |               | 80 - 120 |

Lab Sample ID: 240-71258-2 MS

Matrix: Water

Analysis Batch: 253722

Client Sample ID: GW-102216-TW-012

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 5.0           | U                | 50.0        | 49.1      |              | ug/L |   | 98   | 55 - 150     |
| 1,1,2,2-Tetrachloroethane | 5.0           | U                | 50.0        | 51.2      |              | ug/L |   | 102  | 48 - 134     |
| 1,1,2-Trichloroethane     | 5.0           | U                | 50.0        | 54.0      |              | ug/L |   | 108  | 65 - 130     |
| 1,1-Dichloroethane        | 1.7           | J                | 50.0        | 48.3      |              | ug/L |   | 93   | 57 - 135     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: 240-71258-2 MS

Matrix: Water

Analysis Batch: 253722

Client Sample ID: GW-102216-TW-012

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1-Dichloroethene          | 5.0           | U                | 50.0        | 39.3      |              | ug/L |   | 79   | 50 - 156     |
| 1,2-Dichloroethane          | 5.0           | U                | 50.0        | 58.6      |              | ug/L |   | 117  | 62 - 137     |
| 1,2-Dichloropropane         | 5.0           | U                | 50.0        | 52.9      |              | ug/L |   | 106  | 66 - 130     |
| 2-Hexanone                  | 50            | U *              | 100         | 113       |              | ug/L |   | 113  | 41 - 135     |
| Acetone                     | 50            | U                | 100         | 94.0      |              | ug/L |   | 94   | 28 - 120     |
| Benzene                     | 5.0           | U                | 50.0        | 45.6      |              | ug/L |   | 91   | 67 - 126     |
| Bromoform                   | 5.0           | U                | 50.0        | 44.6      |              | ug/L |   | 89   | 40 - 149     |
| Bromomethane                | 5.0           | U                | 50.0        | 24.7      |              | ug/L |   | 49   | 10 - 169     |
| Carbon disulfide            | 5.0           | U                | 50.0        | 35.6      |              | ug/L |   | 71   | 43 - 172     |
| Carbon tetrachloride        | 5.0           | U                | 50.0        | 51.9      |              | ug/L |   | 104  | 51 - 154     |
| Chlorobenzene               | 5.0           | U                | 50.0        | 48.5      |              | ug/L |   | 97   | 58 - 128     |
| Chloroethane                | 5.0           | U                | 50.0        | 21.7      |              | ug/L |   | 43   | 10 - 162     |
| Chloroform                  | 5.0           | U                | 50.0        | 48.6      |              | ug/L |   | 97   | 67 - 133     |
| Chloromethane               | 5.0           | U                | 50.0        | 45.2      |              | ug/L |   | 90   | 30 - 143     |
| cis-1,2-Dichloroethene      | 77            |                  | 50.0        | 118       |              | ug/L |   | 82   | 64 - 134     |
| cis-1,3-Dichloropropene     | 5.0           | U                | 50.0        | 45.3      |              | ug/L |   | 91   | 58 - 120     |
| Dichlorobromomethane        | 5.0           | U                | 50.0        | 49.2      |              | ug/L |   | 98   | 64 - 127     |
| Ethylbenzene                | 5.0           | U                | 50.0        | 45.3      |              | ug/L |   | 91   | 66 - 123     |
| m-Xylene & p-Xylene         | 10            | U                | 50.0        | 42.8      |              | ug/L |   | 86   | 58 - 127     |
| 2-Butanone (MEK)            | 50            | U                | 100         | 103       |              | ug/L |   | 103  | 38 - 123     |
| 4-Methyl-2-pentanone (MIBK) | 50            | U                | 100         | 97.9      |              | ug/L |   | 98   | 43 - 143     |
| Methylene Chloride          | 5.0           | U                | 50.0        | 41.6      |              | ug/L |   | 83   | 48 - 138     |
| o-Xylene                    | 5.0           | U                | 50.0        | 42.4      |              | ug/L |   | 85   | 61 - 126     |
| Styrene                     | 5.0           | U                | 50.0        | 44.9      |              | ug/L |   | 90   | 62 - 131     |
| Tetrachloroethene           | 5.0           | U                | 50.0        | 48.2      |              | ug/L |   | 96   | 54 - 138     |
| Toluene                     | 5.0           | U                | 50.0        | 50.9      |              | ug/L |   | 102  | 63 - 130     |
| trans-1,2-Dichloroethene    | 5.0           | U                | 50.0        | 42.6      |              | ug/L |   | 85   | 70 - 137     |
| trans-1,3-Dichloropropene   | 5.0           | U                | 50.0        | 46.6      |              | ug/L |   | 93   | 48 - 120     |
| Trichloroethene             | 5.0           | U                | 50.0        | 44.0      |              | ug/L |   | 88   | 58 - 139     |
| Vinyl chloride              | 26            |                  | 50.0        | 66.0      |              | ug/L |   | 80   | 38 - 147     |
| Xylenes, Total              | 10            | U                | 100         | 85.2      |              | ug/L |   | 85   | 60 - 126     |
| Chlorodibromomethane        | 5.0           | U                | 50.0        | 48.6      |              | ug/L |   | 97   | 56 - 132     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 115          |              | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 102          |              | 73 - 120 |
| Toluene-d8 (Surr)            | 106          |              | 73 - 124 |
| Dibromofluoromethane (Surr)  | 95           |              | 80 - 120 |

Lab Sample ID: 240-71258-2 MSD

Matrix: Water

Analysis Batch: 253722

Client Sample ID: GW-102216-TW-012

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-Trichloroethane     | 5.0           | U                | 50.0        | 47.5       |               | ug/L |   | 95   | 55 - 150     | 3   | 35        |
| 1,1,2,2-Tetrachloroethane | 5.0           | U                | 50.0        | 52.1       |               | ug/L |   | 104  | 48 - 134     | 2   | 35        |
| 1,1,2-Trichloroethane     | 5.0           | U                | 50.0        | 53.8       |               | ug/L |   | 108  | 65 - 130     | 0   | 35        |
| 1,1-Dichloroethane        | 1.7           | J                | 50.0        | 52.7       |               | ug/L |   | 102  | 57 - 135     | 9   | 35        |

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# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: 240-71258-2 MSD

Matrix: Water

Analysis Batch: 253722

Client Sample ID: GW-102216-TW-012

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-Dichloroethene          | 5.0           | U                | 50.0        | 39.7       |               | ug/L |   | 79   | 50 - 156     | 1   | 35        |
| 1,2-Dichloroethane          | 5.0           | U                | 50.0        | 61.5       |               | ug/L |   | 123  | 62 - 137     | 5   | 35        |
| 1,2-Dichloropropane         | 5.0           | U                | 50.0        | 52.7       |               | ug/L |   | 105  | 66 - 130     | 0   | 35        |
| 2-Hexanone                  | 50            | U *              | 100         | 131        |               | ug/L |   | 131  | 41 - 135     | 14  | 35        |
| Acetone                     | 50            | U                | 100         | 101        |               | ug/L |   | 101  | 28 - 120     | 7   | 35        |
| Benzene                     | 5.0           | U                | 50.0        | 47.5       |               | ug/L |   | 95   | 67 - 126     | 4   | 31        |
| Bromoform                   | 5.0           | U                | 50.0        | 45.9       |               | ug/L |   | 92   | 40 - 149     | 3   | 35        |
| Bromomethane                | 5.0           | U                | 50.0        | 31.3       |               | ug/L |   | 63   | 10 - 169     | 24  | 35        |
| Carbon disulfide            | 5.0           | U                | 50.0        | 36.1       |               | ug/L |   | 72   | 43 - 172     | 2   | 35        |
| Carbon tetrachloride        | 5.0           | U                | 50.0        | 52.5       |               | ug/L |   | 105  | 51 - 154     | 1   | 35        |
| Chlorobenzene               | 5.0           | U                | 50.0        | 48.3       |               | ug/L |   | 97   | 58 - 128     | 0   | 35        |
| Chloroethane                | 5.0           | U                | 50.0        | 26.6       |               | ug/L |   | 53   | 10 - 162     | 20  | 35        |
| Chloroform                  | 5.0           | U                | 50.0        | 51.9       |               | ug/L |   | 104  | 67 - 133     | 7   | 35        |
| Chloromethane               | 5.0           | U                | 50.0        | 49.8       |               | ug/L |   | 100  | 30 - 143     | 10  | 35        |
| cis-1,2-Dichloroethene      | 77            |                  | 50.0        | 128        |               | ug/L |   | 102  | 64 - 134     | 8   | 35        |
| cis-1,3-Dichloropropene     | 5.0           | U                | 50.0        | 44.7       |               | ug/L |   | 89   | 58 - 120     | 1   | 35        |
| Dichlorobromomethane        | 5.0           | U                | 50.0        | 51.9       |               | ug/L |   | 104  | 64 - 127     | 5   | 35        |
| Ethylbenzene                | 5.0           | U                | 50.0        | 45.2       |               | ug/L |   | 90   | 66 - 123     | 0   | 34        |
| m-Xylene & p-Xylene         | 10            | U                | 50.0        | 44.3       |               | ug/L |   | 89   | 58 - 127     | 3   | 35        |
| 2-Butanone (MEK)            | 50            | U                | 100         | 107        |               | ug/L |   | 107  | 38 - 123     | 4   | 35        |
| 4-Methyl-2-pentanone (MIBK) | 50            | U                | 100         | 113        |               | ug/L |   | 113  | 43 - 143     | 15  | 35        |
| Methylene Chloride          | 5.0           | U                | 50.0        | 42.5       |               | ug/L |   | 85   | 48 - 138     | 2   | 35        |
| o-Xylene                    | 5.0           | U                | 50.0        | 45.0       |               | ug/L |   | 90   | 61 - 126     | 6   | 35        |
| Styrene                     | 5.0           | U                | 50.0        | 48.1       |               | ug/L |   | 96   | 62 - 131     | 7   | 35        |
| Tetrachloroethene           | 5.0           | U                | 50.0        | 48.3       |               | ug/L |   | 97   | 54 - 138     | 0   | 35        |
| Toluene                     | 5.0           | U                | 50.0        | 49.7       |               | ug/L |   | 99   | 63 - 130     | 3   | 33        |
| trans-1,2-Dichloroethene    | 5.0           | U                | 50.0        | 44.5       |               | ug/L |   | 89   | 70 - 137     | 4   | 25        |
| trans-1,3-Dichloropropene   | 5.0           | U                | 50.0        | 46.8       |               | ug/L |   | 94   | 48 - 120     | 1   | 35        |
| Trichloroethene             | 5.0           | U                | 50.0        | 44.6       |               | ug/L |   | 89   | 58 - 139     | 1   | 35        |
| Vinyl chloride              | 26            |                  | 50.0        | 67.9       |               | ug/L |   | 83   | 38 - 147     | 3   | 35        |
| Xylenes, Total              | 10            | U                | 100         | 89.3       |               | ug/L |   | 89   | 60 - 126     | 5   | 35        |
| Chlorodibromomethane        | 5.0           | U                | 50.0        | 48.0       |               | ug/L |   | 96   | 56 - 132     | 1   | 35        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 113           |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 95            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 102           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 92            |               | 80 - 120 |

Lab Sample ID: MB 240-253846/6

Matrix: Water

Analysis Batch: 253846

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 1,1,2-Trichloroethane     | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 1,1-Dichloroethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:41 | 1       |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: MB 240-253846/6

Matrix: Water

Analysis Batch: 253846

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 11/01/16 13:41 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 11/01/16 13:41 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:41 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:41 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:41 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 11/01/16 13:41 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:41 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 11/01/16 13:41 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 11/01/16 13:41 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:41 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114          |              | 63 - 132 |          | 11/01/16 13:41 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94           |              | 73 - 120 |          | 11/01/16 13:41 | 1       |
| Toluene-d8 (Surr)            | 102          |              | 73 - 124 |          | 11/01/16 13:41 | 1       |
| Dibromofluoromethane (Surr)  | 94           |              | 80 - 120 |          | 11/01/16 13:41 | 1       |

Lab Sample ID: LCS 240-253846/4

Matrix: Water

Analysis Batch: 253846

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-Trichloroethane     | 10.0        | 9.16       |               | ug/L |   | 92   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 9.71       |               | ug/L |   | 97   | 61 - 130     |
| 1,1,2-Trichloroethane     | 10.0        | 10.5       |               | ug/L |   | 105  | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 8.79       |               | ug/L |   | 88   | 77 - 121     |
| 1,1-Dichloroethene        | 10.0        | 7.29       |               | ug/L |   | 73   | 70 - 141     |
| 1,2-Dichloroethane        | 10.0        | 11.4       |               | ug/L |   | 114  | 76 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: LCS 240-253846/4

Matrix: Water

Analysis Batch: 253846

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2-Dichloropropane         | 10.0        | 10.2       |               | ug/L |   | 102  | 79 - 121     |
| 2-Hexanone                  | 20.0        | 25.9       | *             | ug/L |   | 129  | 56 - 124     |
| Acetone                     | 20.0        | 18.8       |               | ug/L |   | 94   | 46 - 120     |
| Benzene                     | 10.0        | 9.05       |               | ug/L |   | 90   | 80 - 120     |
| Bromoform                   | 10.0        | 9.31       |               | ug/L |   | 93   | 52 - 157     |
| Bromomethane                | 10.0        | 5.16       |               | ug/L |   | 52   | 24 - 160     |
| Carbon disulfide            | 10.0        | 6.98       |               | ug/L |   | 70   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 10.4       |               | ug/L |   | 104  | 69 - 149     |
| Chlorobenzene               | 10.0        | 9.59       |               | ug/L |   | 96   | 80 - 120     |
| Chloroethane                | 10.0        | 3.92       |               | ug/L |   | 39   | 24 - 147     |
| Chloroform                  | 10.0        | 9.07       |               | ug/L |   | 91   | 80 - 120     |
| Chloromethane               | 10.0        | 9.08       |               | ug/L |   | 91   | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 8.17       |               | ug/L |   | 82   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 9.09       |               | ug/L |   | 91   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 9.49       |               | ug/L |   | 95   | 76 - 125     |
| Ethylbenzene                | 10.0        | 9.46       |               | ug/L |   | 95   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 9.26       |               | ug/L |   | 93   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 21.2       |               | ug/L |   | 106  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 20.5       |               | ug/L |   | 103  | 60 - 131     |
| Methylene Chloride          | 10.0        | 7.76       |               | ug/L |   | 78   | 68 - 136     |
| o-Xylene                    | 10.0        | 8.98       |               | ug/L |   | 90   | 80 - 120     |
| Styrene                     | 10.0        | 9.26       |               | ug/L |   | 93   | 80 - 120     |
| Tetrachloroethene           | 10.0        | 10.0       |               | ug/L |   | 100  | 80 - 123     |
| Toluene                     | 10.0        | 10.4       |               | ug/L |   | 104  | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 8.09       |               | ug/L |   | 81   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 9.59       |               | ug/L |   | 96   | 65 - 120     |
| Trichloroethene             | 10.0        | 8.85       |               | ug/L |   | 88   | 80 - 122     |
| Vinyl chloride              | 10.0        | 7.88       |               | ug/L |   | 79   | 60 - 129     |
| Xylenes, Total              | 20.0        | 18.2       |               | ug/L |   | 91   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 10.0       |               | ug/L |   | 100  | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 114           |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 103           |               | 73 - 120 |
| Toluene-d8 (Surr)            | 108           |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 95            |               | 80 - 120 |

Lab Sample ID: MB 240-253849/6

Matrix: Water

Analysis Batch: 253849

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-Trichloroethane     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 1,1,1,2-Tetrachloroethane | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 1,1,2-Trichloroethane     | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 1,1-Dichloroethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 1,1-Dichloroethene        | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 1,2-Dichloroethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:26 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: MB 240-253849/6

Matrix: Water

Analysis Batch: 253849

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 11/01/16 13:26 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 11/01/16 13:26 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:26 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:26 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:26 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 11/01/16 13:26 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:26 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 11/01/16 13:26 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 11/01/16 13:26 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:26 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105          |              | 63 - 132 |          | 11/01/16 13:26 | 1       |
| 4-Bromofluorobenzene (Surr)  | 81           |              | 73 - 120 |          | 11/01/16 13:26 | 1       |
| Toluene-d8 (Surr)            | 90           |              | 73 - 124 |          | 11/01/16 13:26 | 1       |
| Dibromofluoromethane (Surr)  | 85           |              | 80 - 120 |          | 11/01/16 13:26 | 1       |

Lab Sample ID: LCS 240-253849/4

Matrix: Water

Analysis Batch: 253849

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-Trichloroethane     | 10.0        | 8.63       |               | ug/L |   | 86   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 10.0        | 8.90       |               | ug/L |   | 89   | 61 - 130     |
| 1,1,2-Trichloroethane     | 10.0        | 9.24       |               | ug/L |   | 92   | 80 - 120     |
| 1,1-Dichloroethane        | 10.0        | 8.71       |               | ug/L |   | 87   | 77 - 121     |
| 1,1-Dichloroethene        | 10.0        | 8.41       |               | ug/L |   | 84   | 70 - 141     |
| 1,2-Dichloroethane        | 10.0        | 10.1       |               | ug/L |   | 101  | 76 - 130     |
| 1,2-Dichloropropane       | 10.0        | 9.14       |               | ug/L |   | 91   | 79 - 121     |
| 2-Hexanone                | 20.0        | 20.5       |               | ug/L |   | 103  | 56 - 124     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

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

Lab Sample ID: LCS 240-253849/4

Matrix: Water

Analysis Batch: 253849

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| Acetone                     | 20.0        | 23.5       |               | ug/L |   | 117  | 46 - 120     |
| Benzene                     | 10.0        | 8.91       |               | ug/L |   | 89   | 80 - 120     |
| Bromoform                   | 10.0        | 6.98       |               | ug/L |   | 70   | 52 - 157     |
| Bromomethane                | 10.0        | 5.23       |               | ug/L |   | 52   | 24 - 160     |
| Carbon disulfide            | 10.0        | 7.89       |               | ug/L |   | 79   | 58 - 160     |
| Carbon tetrachloride        | 10.0        | 8.57       |               | ug/L |   | 86   | 69 - 149     |
| Chlorobenzene               | 10.0        | 8.74       |               | ug/L |   | 87   | 80 - 120     |
| Chloroethane                | 10.0        | 4.27       |               | ug/L |   | 43   | 24 - 147     |
| Chloroform                  | 10.0        | 9.45       |               | ug/L |   | 94   | 80 - 120     |
| Chloromethane               | 10.0        | 10.5       |               | ug/L |   | 105  | 50 - 135     |
| cis-1,2-Dichloroethene      | 10.0        | 8.83       |               | ug/L |   | 88   | 80 - 120     |
| cis-1,3-Dichloropropene     | 10.0        | 8.17       |               | ug/L |   | 82   | 75 - 120     |
| Dichlorobromomethane        | 10.0        | 8.67       |               | ug/L |   | 87   | 76 - 125     |
| Ethylbenzene                | 10.0        | 8.84       |               | ug/L |   | 88   | 80 - 120     |
| m-Xylene & p-Xylene         | 10.0        | 8.82       |               | ug/L |   | 88   | 80 - 120     |
| 2-Butanone (MEK)            | 20.0        | 24.6 *     |               | ug/L |   | 123  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 20.0        | 19.5       |               | ug/L |   | 97   | 60 - 131     |
| Methylene Chloride          | 10.0        | 9.16       |               | ug/L |   | 92   | 68 - 136     |
| o-Xylene                    | 10.0        | 8.59       |               | ug/L |   | 86   | 80 - 120     |
| Styrene                     | 10.0        | 9.14       |               | ug/L |   | 91   | 80 - 120     |
| Tetrachloroethene           | 10.0        | 8.59       |               | ug/L |   | 86   | 80 - 123     |
| Toluene                     | 10.0        | 9.42       |               | ug/L |   | 94   | 80 - 121     |
| trans-1,2-Dichloroethene    | 10.0        | 8.92       |               | ug/L |   | 89   | 80 - 123     |
| trans-1,3-Dichloropropene   | 10.0        | 7.91       |               | ug/L |   | 79   | 65 - 120     |
| Trichloroethene             | 10.0        | 8.56       |               | ug/L |   | 86   | 80 - 122     |
| Vinyl chloride              | 10.0        | 9.97       |               | ug/L |   | 100  | 60 - 129     |
| Xylenes, Total              | 20.0        | 17.4       |               | ug/L |   | 87   | 80 - 120     |
| Chlorodibromomethane        | 10.0        | 8.30       |               | ug/L |   | 83   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 88            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 91            |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 87            |               | 80 - 120 |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

## GC/MS VOA

### Analysis Batch: 253720

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71258-1      | TB-102216-TW-003   | Total/NA  | Water  | 8260B  |            |
| 240-71258-3      | GW-102216-TW-013   | Total/NA  | Water  | 8260B  |            |
| 240-71258-4      | GW-102216-TW-014   | Total/NA  | Water  | 8260B  |            |
| 240-71258-5      | GW-102216-TW-015   | Total/NA  | Water  | 8260B  |            |
| 240-71258-7      | GW-102216-TW-017   | Total/NA  | Water  | 8260B  |            |
| 240-71258-8      | GW-102216-TW-018   | Total/NA  | Water  | 8260B  |            |
| 240-71258-9      | GW-102216-TW-019   | Total/NA  | Water  | 8260B  |            |
| 240-71258-10     | GW-102216-TW-020   | Total/NA  | Water  | 8260B  |            |
| MB 240-253720/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253720/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 253722

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71258-2      | GW-102216-TW-012   | Total/NA  | Water  | 8260B  |            |
| 240-71258-11     | GW-102316-TW-021   | Total/NA  | Water  | 8260B  |            |
| 240-71258-12     | GW-102316-TW-022   | Total/NA  | Water  | 8260B  |            |
| 240-71258-13     | GW-102316-TW-023   | Total/NA  | Water  | 8260B  |            |
| 240-71258-14     | GW-102316-TW-024   | Total/NA  | Water  | 8260B  |            |
| 240-71258-15     | EB-102316-TW-002   | Total/NA  | Water  | 8260B  |            |
| 240-71258-16     | GW-102316-TW-025   | Total/NA  | Water  | 8260B  |            |
| 240-71258-17     | GW-102316-TW-026   | Total/NA  | Water  | 8260B  |            |
| 240-71258-18     | GW-102316-TW-027   | Total/NA  | Water  | 8260B  |            |
| 240-71258-19     | GW-102316-TW-028   | Total/NA  | Water  | 8260B  |            |
| 240-71258-20     | GW-102416-TW-029   | Total/NA  | Water  | 8260B  |            |
| 240-71258-21     | GW-102416-TW-030   | Total/NA  | Water  | 8260B  |            |
| 240-71258-22     | GW-102416-TW-031   | Total/NA  | Water  | 8260B  |            |
| 240-71258-23     | GW-102416-TW-032   | Total/NA  | Water  | 8260B  |            |
| 240-71258-25     | SW-102416-TW-001   | Total/NA  | Water  | 8260B  |            |
| 240-71258-26     | SW-102416-TW-002   | Total/NA  | Water  | 8260B  |            |
| 240-71258-27     | SW-102416-TW-003   | Total/NA  | Water  | 8260B  |            |
| 240-71258-28     | GW-102416-TW-034   | Total/NA  | Water  | 8260B  |            |
| MB 240-253722/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253722/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| 240-71258-2 MS   | GW-102216-TW-012   | Total/NA  | Water  | 8260B  |            |
| 240-71258-2 MSD  | GW-102216-TW-012   | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 253846

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71258-24     | GW-102416-TW-033   | Total/NA  | Water  | 8260B  |            |
| MB 240-253846/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253846/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

### Analysis Batch: 253849

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71258-6      | GW-102216-TW-016   | Total/NA  | Water  | 8260B  |            |
| MB 240-253849/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253849/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Client Sample ID: TB-102216-TW-003**

**Date Collected: 10/22/16 00:00**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 19:25       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-012**

**Date Collected: 10/22/16 09:45**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 253722       | 10/31/16 15:25       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-013**

**Date Collected: 10/22/16 11:00**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 19:47       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-014**

**Date Collected: 10/22/16 12:10**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 20:09       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-015**

**Date Collected: 10/22/16 12:10**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 20:31       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-016**

**Date Collected: 10/22/16 13:35**

**Date Received: 10/25/16 09:45**

**Lab Sample ID: 240-71258-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1.82            | 253849       | 11/01/16 14:09       | LRW     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Client Sample ID: GW-102216-TW-017**

**Lab Sample ID: 240-71258-7**

**Date Collected: 10/22/16 15:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 21:16       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-018**

**Lab Sample ID: 240-71258-8**

**Date Collected: 10/22/16 15:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 21:39       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-019**

**Lab Sample ID: 240-71258-9**

**Date Collected: 10/22/16 17:10**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 50              | 253720       | 10/31/16 22:01       | LRW     | TAL CAN |

**Client Sample ID: GW-102216-TW-020**

**Lab Sample ID: 240-71258-10**

**Date Collected: 10/22/16 18:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253720       | 10/31/16 22:23       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-021**

**Lab Sample ID: 240-71258-11**

**Date Collected: 10/23/16 09:15**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 333.33          | 253722       | 10/31/16 15:48       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-022**

**Lab Sample ID: 240-71258-12**

**Date Collected: 10/23/16 10:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 253722       | 10/31/16 16:09       | LRW     | TAL CAN |

TestAmerica Canton



# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Client Sample ID: GW-102316-TW-023**

**Lab Sample ID: 240-71258-13**

**Date Collected: 10/23/16 11:45**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 16:32       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-024**

**Lab Sample ID: 240-71258-14**

**Date Collected: 10/23/16 13:20**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 16:54       | LRW     | TAL CAN |

**Client Sample ID: EB-102316-TW-002**

**Lab Sample ID: 240-71258-15**

**Date Collected: 10/23/16 13:50**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 17:16       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-025**

**Lab Sample ID: 240-71258-16**

**Date Collected: 10/23/16 15:15**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 17:38       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-026**

**Lab Sample ID: 240-71258-17**

**Date Collected: 10/23/16 16:10**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 18:00       | LRW     | TAL CAN |

**Client Sample ID: GW-102316-TW-027**

**Lab Sample ID: 240-71258-18**

**Date Collected: 10/23/16 17:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 8               | 253722       | 10/31/16 18:22       | LRW     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Client Sample ID: GW-102316-TW-028**

**Lab Sample ID: 240-71258-19**

**Date Collected: 10/23/16 18:40**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 18:45       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-029**

**Lab Sample ID: 240-71258-20**

**Date Collected: 10/24/16 10:00**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 19:07       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-030**

**Lab Sample ID: 240-71258-21**

**Date Collected: 10/24/16 11:30**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 19:28       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-031**

**Lab Sample ID: 240-71258-22**

**Date Collected: 10/24/16 12:35**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 555.56          | 253722       | 10/31/16 19:50       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-032**

**Lab Sample ID: 240-71258-23**

**Date Collected: 10/24/16 14:00**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 555.56          | 253722       | 10/31/16 20:13       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-033**

**Lab Sample ID: 240-71258-24**

**Date Collected: 10/24/16 15:20**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2               | 253846       | 11/01/16 15:23       | LRW     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

**Client Sample ID: SW-102416-TW-001**

**Lab Sample ID: 240-71258-25**

**Date Collected: 10/24/16 16:15**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1.82            | 253722       | 10/31/16 20:57       | LRW     | TAL CAN |

**Client Sample ID: SW-102416-TW-002**

**Lab Sample ID: 240-71258-26**

**Date Collected: 10/24/16 16:15**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 2               | 253722       | 10/31/16 21:19       | LRW     | TAL CAN |

**Client Sample ID: SW-102416-TW-003**

**Lab Sample ID: 240-71258-27**

**Date Collected: 10/24/16 16:25**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 33.33           | 253722       | 10/31/16 21:41       | LRW     | TAL CAN |

**Client Sample ID: GW-102416-TW-034**

**Lab Sample ID: 240-71258-28**

**Date Collected: 10/24/16 18:25**

**Matrix: Water**

**Date Received: 10/25/16 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253722       | 10/31/16 22:03       | LRW     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71258-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

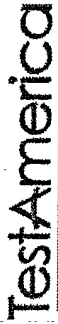
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# Chain of Custody Record

| <b>Client Information</b><br>Client Contact: Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State: NY, Zip: 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |             | Due Date Requested:<br>TAT Requested (days): 2 weeks (std)<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW #: 917302-T07 |                              | Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Carrier Tracking No(s): Fedex<br>78444995 5683                                        |                                   | COC No: 240-37918-16623.2<br>Page: 2019-10F3<br>Job #: 017302-T07-GHDK5 |                    |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------|--------------------|----------------------------|
| Sample Identification                                                                                                                                                                                                                                                                                                | Sample Date | Sample Time                                                                                                                             | Sample Type (C=Comp, G=Grab) | Matrix (W=water, S=solid, O=wastewater, L=tissue, A=air)                                                                                                        | Field Filtered Sample (Yes or No) | Performance/MS/MSD (Yes or No)                                          | Analysis Requested | Special Instructions/Note: |
| TB-102216-TW-003                                                                                                                                                                                                                                                                                                     | 23-Oct-16   | 9:45                                                                                                                                    | G                            | Water                                                                                                                                                           | X                                 | X                                                                       | 8260B - VOCs       |                            |
| GW-102216-TW-012                                                                                                                                                                                                                                                                                                     |             | 11:00                                                                                                                                   |                              | Water                                                                                                                                                           | X                                 | X                                                                       | 8260B - VOCs       |                            |
| GW-102216-TW-013                                                                                                                                                                                                                                                                                                     |             | 12:10                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-014                                                                                                                                                                                                                                                                                                     |             | 12:10                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-015                                                                                                                                                                                                                                                                                                     |             | 13:35                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-016                                                                                                                                                                                                                                                                                                     |             | 15:30                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-017                                                                                                                                                                                                                                                                                                     |             | 15:30                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-018                                                                                                                                                                                                                                                                                                     |             | 17:10                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-019                                                                                                                                                                                                                                                                                                     |             | 18:30                                                                                                                                   |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102216-TW-020                                                                                                                                                                                                                                                                                                     |             | 9:15                                                                                                                                    | V                            | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| GW-102316-TW-021                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                         |                              | Water                                                                                                                                                           |                                   |                                                                         | 8260B - VOCs       |                            |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                 |             |                                                                                                                                         |                              | Sample Disposal (A fee may be assessed)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal<br>Special Instructions/QC Requirements: |                                   | Total Number of Containers: 1<br>Special Instructions/Note:             |                    |                            |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                           |             |                                                                                                                                         |                              | Date:                                                                                                                                                           |                                   | Method of Shipment: Fedex                                               |                    |                            |
| Relinquished by: Tyler Wittman                                                                                                                                                                                                                                                                                       |             |                                                                                                                                         |                              | Date/Time: 10/24/16 20:00                                                                                                                                       |                                   | Company: GHD                                                            |                    |                            |
| Relinquished by:                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                         |                              | Date/Time:                                                                                                                                                      |                                   | Company:                                                                |                    |                            |
| Relinquished by:                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                         |                              | Date/Time:                                                                                                                                                      |                                   | Company:                                                                |                    |                            |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                |             |                                                                                                                                         |                              | Cooler Temperature(s) °C and Other Remarks:                                                                                                                     |                                   | Date/Time:                                                              |                    |                            |
| Δ Yes Δ No                                                                                                                                                                                                                                                                                                           |             |                                                                                                                                         |                              | Date/Time:                                                                                                                                                      |                                   | Company:                                                                |                    |                            |

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## Chain of Custody Record



## THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                 |  |                                    |  |                                           |  |                                             |  |                                  |  |
|---------------------------------------------------------------------------------|--|------------------------------------|--|-------------------------------------------|--|---------------------------------------------|--|----------------------------------|--|
| <b>Client Information</b>                                                       |  | Samples: Tyler W. Anderson         |  | Lab PM: Heckler, Denise D                 |  | Carrier Tracking No(s): FedEx: 784455955683 |  | COC No: 240-37918-16623.4        |  |
| Client Contact: Ms. Deborah Andrasco                                            |  | Phone: 908-338-0632                |  | E-Mail: denise.heckler@lestamericainc.com |  |                                             |  | Page: 4/14/2017                  |  |
| Company: GHD Services Inc.                                                      |  |                                    |  |                                           |  |                                             |  | Job #: 017302-707 - 64016        |  |
| Address: 2055 Niagara Falls Blvd., Suite 3                                      |  |                                    |  |                                           |  |                                             |  | Preservation Codes:              |  |
| City: Niagara Falls                                                             |  |                                    |  |                                           |  |                                             |  | A - HCL                          |  |
| State, Zip: NY, 14304                                                           |  |                                    |  |                                           |  |                                             |  | B - NaOH                         |  |
| Phone:                                                                          |  |                                    |  |                                           |  |                                             |  | C - Zn Acetate                   |  |
| Email: deb.andrasco@ghd.com                                                     |  |                                    |  |                                           |  |                                             |  | D - Nitric Acid                  |  |
| Project Name: 17302, RACER Delphi Anderson                                      |  |                                    |  |                                           |  |                                             |  | E - NaHSO4                       |  |
| Site: Racer Anderson                                                            |  |                                    |  |                                           |  |                                             |  | F - MeOH                         |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | G - Amchlor                      |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | H - Ascorbic Acid                |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | I - Ice                          |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | J - DI Water                     |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | K - EDTA                         |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | L - EDA                          |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | Other:                           |  |
|                                                                                 |  |                                    |  |                                           |  |                                             |  | Special Instructions/Note:       |  |
| <b>Sample Identification</b>                                                    |  |                                    |  |                                           |  |                                             |  | Total Number of containers       |  |
| 6W-102316-TW-022                                                                |  | Sample Date: 23-03-16              |  | Sample Time: 10:30                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-023                                                                |  | Sample Date: 11:45                 |  | Sample Time: 13:20                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-024                                                                |  | Sample Date: 13:50                 |  | Sample Time: 15:15                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-025                                                                |  | Sample Date: 16:10                 |  | Sample Time: 17:30                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-026                                                                |  | Sample Date: 18:40                 |  | Sample Time: 10:00                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-027                                                                |  | Sample Date: 11:30                 |  | Sample Time: 12:35                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-028                                                                |  | Sample Date: 10:00                 |  | Sample Time: 11:30                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-029                                                                |  | Sample Date: 12:35                 |  | Sample Time: 13:35                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-030                                                                |  | Sample Date: 13:35                 |  | Sample Time: 14:35                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| 6W-102316-TW-031                                                                |  | Sample Date: 14:35                 |  | Sample Time: 15:35                        |  | Sample Type: G                              |  | Matrix: Water                    |  |
| <b>Possible Hazard Identification</b>                                           |  |                                    |  |                                           |  |                                             |  |                                  |  |
| <input checked="" type="checkbox"/> Non-Hazard                                  |  | <input type="checkbox"/> Flammable |  | <input type="checkbox"/> Skin Irritant    |  | <input type="checkbox"/> Poison B           |  | <input type="checkbox"/> Unknown |  |
| <input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify) |  |                                    |  |                                           |  |                                             |  |                                  |  |
| <b>Empty Kit Relinquished by:</b>                                               |  |                                    |  |                                           |  |                                             |  |                                  |  |
| Relinquished by: Tyler W. Anderson                                              |  | Date/Time: 10/24/16 20:00          |  | Company: GHD                              |  | Relinquished by: Denise D                   |  | Date/Time: 10/24/16 20:00        |  |
| Relinquished by:                                                                |  | Date/Time:                         |  | Company:                                  |  | Relinquished by:                            |  | Date/Time:                       |  |
| Relinquished by:                                                                |  | Date/Time:                         |  | Company:                                  |  | Relinquished by:                            |  | Date/Time:                       |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No  |  | Custody Seal No.:                  |  |                                           |  | Cooler Temperature(s) °C and Other Remarks: |  |                                  |  |



# TestAmerica Canton

4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

## Chain of Custody Record

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                       |  |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone: 4057448<br>Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson |  | Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com<br>Phone: 910-328-0655                                                                                                                                                                                                         |  | Carrier Tracking No(s): FedEx: 7844 4595 5883<br>Job #: 017302-707-6H06                             |  | COC No: 240-37918-16623.5<br>Page: 3 of 3<br>Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Anchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  |
| Due Date Requested:<br>TAT Requested (days): 2 week (std)<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW #: 017302-707                                                                                                                                                                               |  | Analysis Requested<br>8260B - VOCs<br>8260B - VOCs<br>9034 - Calc - Sulfide<br>2320B - Alkalinity, Carb and Bicarb<br>2340C - Hardness as calcium carbonate<br>9060 - Diss - DOC<br>RSK 175 - Dissolved Gases<br>9060 - TOC<br>300.0 - 28D - Chloride, Sulfate, Nitrate, Nitrite<br>6010B - Manganese |  | Total Number of Containers: 3<br>Special Instructions/Note:                                         |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client<br><input type="checkbox"/> Disposal By Lab<br>Special Instructions/QC Requirements:                                                                                                                                                                                                                           |  |
| Sample Identification<br>GW-102416-TW-032<br>GW-102416-TW-033<br>SW-102416-TW-001<br>SW-102416-TW-002<br>SW-102416-TW-003<br>GW-102416-TW-034                                                                                                                                                                        |  | Sample Date<br>24-05-16<br>15:20<br>16:15<br>16:15<br>16:25<br>18:25                                                                                                                                                                                                                                  |  | Sample Time<br>14:00<br>15:20<br>16:15<br>16:15<br>16:25<br>18:25                                   |  | Sample Type<br>G=grab<br>6<br>1<br>1<br>1<br>1<br>1                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Matrix<br>W=water, S=solid, O=wastewater, BT=tissue, A=air<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water                                                                                                                                                                                                     |  | Preservation Code:<br>6<br>1<br>1<br>1<br>1<br>1                                                                                                                                                                                                                                                      |  | Field Filtered Sample (Yes or No)<br>X<br>X<br>X<br>X<br>X<br>X                                     |  | Perform MS/MSD (Yes or No)<br>X<br>X<br>X<br>X<br>X<br>X                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                 |  | <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological                                                                                                                                                                                              |  | Date: 10/24/16 20:00<br>Date/Time: 10/24/16 20:00                                                   |  | Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Empty Kit Relinquished by: Tyler Withman<br>Relinquished by: Tyler Withman<br>Relinquished by: Tyler Withman<br>Relinquished by: Tyler Withman<br>Custody Seals Intact: Custody Seal No.:<br>Δ Yes Δ No                                                                                                              |  | Date: 10/24/16 20:00<br>Date/Time: 10/24/16 20:00<br>Date/Time: 10/24/16 20:00<br>Date/Time: 10/24/16 20:00                                                                                                                                                                                           |  | Date: 10/25/16 945<br>Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945 |  | Method of Shipment: FedEx<br>Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945<br>Date/Time: 10/25/16 945                                                                                                                                                                                                                                                                                                           |  |

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71297-1

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:46:43 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

### Qualifiers

#### GC 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. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |

#### Metals

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected. |

#### General Chemistry

| 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. |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| H         | Sample was prepped or analyzed beyond the specified holding time                                               |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |

## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

**Job ID: 240-71297-1**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-71297-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/26/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 3.0° C.

#### GC VOA

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.

#### General Chemistry

Method(s) 300.0: Reanalysis of the following samples was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. GW-102516-TW-041 (240-71297-9), GW-102516-TW-041 (240-71297-9[MS]) and GW-102516-TW-041 (240-71297-9[MSD])

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

# Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

| Method     | Method Description                                | Protocol | Laboratory |
|------------|---------------------------------------------------|----------|------------|
| RSK-175    | Dissolved Gases (GC)                              | RSK      | TAL CAN    |
| 6010B      | Metals (ICP)                                      | SW846    | TAL CAN    |
| 2320B-1997 | Alkalinity, Total                                 | SM       | TAL CAN    |
| 2340C-1997 | Hardness, Total                                   | SM       | TAL CAN    |
| 300.0      | Anions, Ion Chromatography                        | MCAWW    | TAL CAN    |
| 9034       | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Dissolved (DOC)                   | SW846    | TAL CAN    |
| 9060       | Organic Carbon, Total (TOC)                       | SW846    | TAL CAN    |

## Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71297-5   | GW-102516-TW-038 | Water  | 10/25/16 14:10 | 10/26/16 09:25 |
| 240-71297-7   | GW-102516-TW-039 | Water  | 10/25/16 15:55 | 10/26/16 09:25 |
| 240-71297-8   | GW-102516-TW-040 | Water  | 10/25/16 15:55 | 10/26/16 09:25 |
| 240-71297-9   | GW-102516-TW-041 | Water  | 10/25/16 18:40 | 10/26/16 09:25 |



# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Client Sample ID: GW-102516-TW-038

## Lab Sample ID: 240-71297-5

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil | Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|-----|-----|---|------------|-----------|
| Methane                         | 6.7    |           | 0.50 | 0.080 | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Ethane                          | 0.29   | J         | 0.50 | 0.14  | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Ethylene                        | 0.25   | J         | 0.50 | 0.13  | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Manganese                       | 400    |           | 15   | 5.1   | ug/L | 1   |     |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 380    |           | 5.0  | 1.9   | mg/L | 1   |     |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 520    |           | 25   | 16    | mg/L | 1   |     |   | 2340C-1997 | Total/NA  |
| Chloride                        | 35     |           | 1.0  | 0.41  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Nitrate as N                    | 0.036  | J         | 0.10 | 0.035 | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Sulfate                         | 100    |           | 1.0  | 0.13  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 2.2    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 2.1    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Dissolved |

## Client Sample ID: GW-102516-TW-039

## Lab Sample ID: 240-71297-7

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil | Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|-----|-----|---|------------|-----------|
| Methane                         | 2.3    |           | 0.50 | 0.080 | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Bicarbonate Alkalinity as CaCO3 | 410    |           | 5.0  | 1.9   | mg/L | 1   |     |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 500    |           | 25   | 16    | mg/L | 1   |     |   | 2340C-1997 | Total/NA  |
| Chloride                        | 38     |           | 1.0  | 0.41  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Nitrate as N                    | 2.9    |           | 0.10 | 0.035 | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Sulfate                         | 57     |           | 1.0  | 0.13  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.3    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.3    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Dissolved |

## Client Sample ID: GW-102516-TW-040

## Lab Sample ID: 240-71297-8

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil | Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|-----|-----|---|------------|-----------|
| Methane                         | 2.4    |           | 0.50 | 0.080 | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Bicarbonate Alkalinity as CaCO3 | 410    |           | 5.0  | 1.9   | mg/L | 1   |     |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 500    |           | 25   | 16    | mg/L | 1   |     |   | 2340C-1997 | Total/NA  |
| Chloride                        | 39     |           | 1.0  | 0.41  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Nitrate as N                    | 2.9    |           | 0.10 | 0.035 | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Sulfate                         | 56     |           | 1.0  | 0.13  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 1.3    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Total/NA  |
| Dissolved Organic Carbon        | 1.3    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Dissolved |

## Client Sample ID: GW-102516-TW-041

## Lab Sample ID: 240-71297-9

| Analyte                         | Result | Qualifier | RL   | MDL   | Unit | Dil | Fac | D | Method     | Prep Type |
|---------------------------------|--------|-----------|------|-------|------|-----|-----|---|------------|-----------|
| Methane                         | 6.4    |           | 0.50 | 0.080 | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Ethane                          | 0.60   |           | 0.50 | 0.14  | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Ethylene                        | 0.77   |           | 0.50 | 0.13  | ug/L | 1   |     |   | RSK-175    | Total/NA  |
| Manganese                       | 530    |           | 15   | 5.1   | ug/L | 1   |     |   | 6010B      | Dissolved |
| Bicarbonate Alkalinity as CaCO3 | 310    |           | 5.0  | 1.9   | mg/L | 1   |     |   | 2320B-1997 | Total/NA  |
| Hardness as calcium carbonate   | 330    |           | 5.0  | 3.1   | mg/L | 1   |     |   | 2340C-1997 | Total/NA  |
| Chloride                        | 7.7    |           | 1.0  | 0.41  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Sulfate                         | 59     |           | 1.0  | 0.13  | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Total Organic Carbon            | 4.3    |           | 1.0  | 0.080 | mg/L | 1   |     |   | 9060       | Total/NA  |
| Nitrite as N - RA               | 0.16   | H         | 0.10 | 0.038 | mg/L | 1   |     |   | 300.0      | Total/NA  |
| Nitrate as N - RA               | 2.1    | H         | 0.10 | 0.035 | mg/L | 1   |     |   | 300.0      | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

**Client Sample ID: GW-102516-TW-041 (Continued)**

**Lab Sample ID: 240-71297-9**

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-------|------|---------|---|--------|-----------|
| Dissolved Organic Carbon | 4.2    |           | 1.0 | 0.080 | mg/L | 1       |   | 9060   | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: RSK-175 - Dissolved Gases (GC)

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 6.7       |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 19:15 | 1       |
| Ethane                | 0.29      | J         | 0.50     | 0.14  | ug/L |   |          | 10/31/16 19:15 | 1       |
| Ethylene              | 0.25      | J         | 0.50     | 0.13  | ug/L |   |          | 10/31/16 19:15 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 78        |           | 76 - 121 |       |      |   |          | 10/31/16 19:15 | 1       |

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 2.3       |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 19:32 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/31/16 19:32 | 1       |
| Ethylene              | 0.50      | U         | 0.50     | 0.13  | ug/L |   |          | 10/31/16 19:32 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 78        |           | 76 - 121 |       |      |   |          | 10/31/16 19:32 | 1       |

Client Sample ID: GW-102516-TW-040

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-8

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 2.4       |           | 0.50     | 0.080 | ug/L |   |          | 10/31/16 19:49 | 1       |
| Ethane                | 0.50      | U         | 0.50     | 0.14  | ug/L |   |          | 10/31/16 19:49 | 1       |
| Ethylene              | 0.50      | U         | 0.50     | 0.13  | ug/L |   |          | 10/31/16 19:49 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 77        |           | 76 - 121 |       |      |   |          | 10/31/16 19:49 | 1       |

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte               | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|-----------|-----------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 6.4       |           | 0.50     | 0.080 | ug/L |   |          | 11/01/16 17:28 | 1       |
| Ethane                | 0.60      |           | 0.50     | 0.14  | ug/L |   |          | 11/01/16 17:28 | 1       |
| Ethylene              | 0.77      |           | 0.50     | 0.13  | ug/L |   |          | 11/01/16 17:28 | 1       |
| Surrogate             | %Recovery | Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 97        |           | 76 - 121 |       |      |   |          | 11/01/16 17:28 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 400    |           | 15 | 5.1 | ug/L | — | 10/27/16 14:00 | 10/28/16 21:36 | 1       |

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15     | U         | 15 | 5.1 | ug/L | — | 10/27/16 14:00 | 10/28/16 21:40 | 1       |

Client Sample ID: GW-102516-TW-040

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-8

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15     | U         | 15 | 5.1 | ug/L | — | 10/27/16 14:00 | 10/28/16 21:44 | 1       |

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte   | Result | Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 530    |           | 15 | 5.1 | ug/L | — | 10/27/16 14:00 | 10/28/16 21:16 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## General Chemistry

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 380    |           | 5.0  | 1.9   | mg/L |   |                | 11/01/16 22:29 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/01/16 22:29 | 1       |
| Hardness as calcium carbonate               | 520    |           | 25   | 16    | mg/L |   |                | 11/01/16 07:51 | 1       |
| Chloride                                    | 35     |           | 1.0  | 0.41  | mg/L |   |                | 10/26/16 16:02 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/26/16 16:02 | 1       |
| Nitrate as N                                | 0.036  | J         | 0.10 | 0.035 | mg/L |   |                | 10/26/16 16:02 | 1       |
| Sulfate                                     | 100    |           | 1.0  | 0.13  | mg/L |   |                | 10/26/16 16:02 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/27/16 14:13 | 10/27/16 16:53 | 1       |
| Total Organic Carbon                        | 2.2    |           | 1.0  | 0.080 | mg/L |   |                | 10/27/16 17:41 | 1       |

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 410    |           | 5.0  | 1.9   | mg/L |   |                | 11/02/16 00:13 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/02/16 00:13 | 1       |
| Hardness as calcium carbonate               | 500    |           | 25   | 16    | mg/L |   |                | 11/01/16 08:00 | 1       |
| Chloride                                    | 38     |           | 1.0  | 0.41  | mg/L |   |                | 10/26/16 16:20 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/26/16 16:20 | 1       |
| Nitrate as N                                | 2.9    |           | 0.10 | 0.035 | mg/L |   |                | 10/26/16 16:20 | 1       |
| Sulfate                                     | 57     |           | 1.0  | 0.13  | mg/L |   |                | 10/26/16 16:20 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/27/16 14:13 | 10/27/16 16:57 | 1       |
| Total Organic Carbon                        | 1.3    |           | 1.0  | 0.080 | mg/L |   |                | 10/27/16 18:09 | 1       |

Client Sample ID: GW-102516-TW-040

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-8

Matrix: Water

| Analyte                                     | Result | Qualifier | RL   | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 410    |           | 5.0  | 1.9   | mg/L |   |                | 11/02/16 00:26 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0  | 1.9   | mg/L |   |                | 11/02/16 00:26 | 1       |
| Hardness as calcium carbonate               | 500    |           | 25   | 16    | mg/L |   |                | 11/01/16 08:10 | 1       |
| Chloride                                    | 39     |           | 1.0  | 0.41  | mg/L |   |                | 10/26/16 16:38 | 1       |
| Nitrite as N                                | 0.10   | U         | 0.10 | 0.038 | mg/L |   |                | 10/26/16 16:38 | 1       |
| Nitrate as N                                | 2.9    |           | 0.10 | 0.035 | mg/L |   |                | 10/26/16 16:38 | 1       |
| Sulfate                                     | 56     |           | 1.0  | 0.13  | mg/L |   |                | 10/26/16 16:38 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0  | 0.94  | mg/L |   | 10/27/16 14:13 | 10/27/16 17:01 | 1       |
| Total Organic Carbon                        | 1.3    |           | 1.0  | 0.080 | mg/L |   |                | 10/27/16 18:36 | 1       |

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte                                     | Result | Qualifier | RL  | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|--------|-----------|-----|-------|------|---|----------------|----------------|---------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | 310    |           | 5.0 | 1.9   | mg/L |   |                | 11/01/16 23:07 | 1       |
| Carbonate Alkalinity as CaCO <sub>3</sub>   | 5.0    | U         | 5.0 | 1.9   | mg/L |   |                | 11/01/16 23:07 | 1       |
| Hardness as calcium carbonate               | 330    |           | 5.0 | 3.1   | mg/L |   |                | 11/01/16 07:15 | 1       |
| Chloride                                    | 7.7    |           | 1.0 | 0.41  | mg/L |   |                | 10/28/16 15:21 | 1       |
| Sulfate                                     | 59     |           | 1.0 | 0.13  | mg/L |   |                | 10/28/16 15:21 | 1       |
| Sulfide                                     | 3.0    | U         | 3.0 | 0.94  | mg/L |   | 10/27/16 14:13 | 10/27/16 17:04 | 1       |
| Total Organic Carbon                        | 4.3    |           | 1.0 | 0.080 | mg/L |   |                | 10/27/16 15:13 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## General Chemistry - RA

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte      | Result | Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.16   | H         | 0.10 | 0.038 | mg/L |   |          | 10/28/16 15:21 | 1       |
| Nitrate as N | 2.1    | H         | 0.10 | 0.035 | mg/L |   |          | 10/28/16 15:21 | 1       |

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## General Chemistry - Dissolved

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 2.1    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 15:09 | 1       |

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.3    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 15:36 | 1       |

Client Sample ID: GW-102516-TW-040

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-8

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.3    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 16:03 | 1       |

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte                  | Result | Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 4.2    |           | 1.0 | 0.080 | mg/L | - |          | 11/01/16 12:20 | 1       |

TestAmerica Canton



# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: RSK-175 - Dissolved Gases (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | Trifluoroethane<br>(76-121) |
|------------------|--------------------|-----------------------------|
| 240-71297-5      | GW-102516-TW-038   | 78                          |
| 240-71297-7      | GW-102516-TW-039   | 78                          |
| 240-71297-8      | GW-102516-TW-040   | 77                          |
| 240-71297-9      | GW-102516-TW-041   | 97                          |
| 240-71297-9 MS   | GW-102516-TW-041   | 87                          |
| 240-71297-9 MSD  | GW-102516-TW-041   | 85                          |
| LCS 240-253703/5 | Lab Control Sample | 87                          |
| LCS 240-253884/5 | Lab Control Sample | 91                          |
| MB 240-253703/4  | Method Blank       | 89                          |
| MB 240-253884/4  | Method Blank       | 92                          |

### Surrogate Legend

1,1,1-Trifluoroethane = 1,1,1-Trifluoroethane

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 240-253703/4

Matrix: Water

Analysis Batch: 253703

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result    | MB Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|--------------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 0.50         | U            | 0.50     | 0.080 | ug/L |   |          | 10/31/16 16:07 | 1       |
| Ethane                | 0.50         | U            | 0.50     | 0.14  | ug/L |   |          | 10/31/16 16:07 | 1       |
| Ethylene              | 0.50         | U            | 0.50     | 0.13  | ug/L |   |          | 10/31/16 16:07 | 1       |
| Surrogate             | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 89           |              | 76 - 121 |       |      |   |          | 10/31/16 16:07 | 1       |

Lab Sample ID: LCS 240-253703/5

Matrix: Water

Analysis Batch: 253703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|---------------|---------------|---------------|------|---|------|--------------|
| Methane               | 199           | 197           |               | ug/L |   | 99   | 80 - 130     |
| Ethane                | 374           | 381           |               | ug/L |   | 102  | 76 - 131     |
| Ethylene              | 349           | 356           |               | ug/L |   | 102  | 79 - 132     |
| Surrogate             | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 1,1,1-Trifluoroethane | 87            |               | 76 - 121      |      |   |      |              |

Lab Sample ID: MB 240-253884/4

Matrix: Water

Analysis Batch: 253884

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte               | MB Result    | MB Qualifier | RL       | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------|--------------|--------------|----------|-------|------|---|----------|----------------|---------|
| Methane               | 0.50         | U            | 0.50     | 0.080 | ug/L |   |          | 11/01/16 16:53 | 1       |
| Ethane                | 0.50         | U            | 0.50     | 0.14  | ug/L |   |          | 11/01/16 16:53 | 1       |
| Ethylene              | 0.50         | U            | 0.50     | 0.13  | ug/L |   |          | 11/01/16 16:53 | 1       |
| Surrogate             | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared | Analyzed       | Dil Fac |
| 1,1,1-Trifluoroethane | 92           |              | 76 - 121 |       |      |   |          | 11/01/16 16:53 | 1       |

Lab Sample ID: LCS 240-253884/5

Matrix: Water

Analysis Batch: 253884

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte               | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|---------------|---------------|---------------|------|---|------|--------------|
| Methane               | 199           | 200           |               | ug/L |   | 100  | 80 - 130     |
| Ethane                | 374           | 386           |               | ug/L |   | 103  | 76 - 131     |
| Ethylene              | 349           | 362           |               | ug/L |   | 104  | 79 - 132     |
| Surrogate             | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 1,1,1-Trifluoroethane | 91            |               | 76 - 121      |      |   |      |              |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253884

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte               | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Methane               | 6.4           |                  | 199         | 207       |              | ug/L |   | 101  | 48 - 159     |
| Ethane                | 0.60          |                  | 374         | 382       |              | ug/L |   | 102  | 65 - 126     |
| Ethylene              | 0.77          |                  | 349         | 356       |              | ug/L |   | 102  | 60 - 135     |
|                       |               |                  |             |           |              |      |   |      |              |
| Surrogate             | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |              |
| 1,1,1-Trifluoroethane | 87            |                  | 76 - 121    |           |              |      |   |      |              |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253884

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte               | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Methane               | 6.4           |                  | 199         | 199        |               | ug/L |   | 97   | 48 - 159     | 4   | 23        |
| Ethane                | 0.60          |                  | 374         | 364        |               | ug/L |   | 97   | 65 - 126     | 5   | 11        |
| Ethylene              | 0.77          |                  | 349         | 340        |               | ug/L |   | 97   | 60 - 135     | 5   | 10        |
|                       |               |                  |             |            |               |      |   |      |              |     |           |
| Surrogate             | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |           |
| 1,1,1-Trifluoroethane | 85            |                  | 76 - 121    |            |               |      |   |      |              |     |           |

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-253271/1-A

Matrix: Water

Analysis Batch: 253489

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 253271

| Analyte   | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|----|-----|------|---|----------------|----------------|---------|
| Manganese | 15        | U            | 15 | 5.1 | ug/L |   | 10/27/16 14:00 | 10/28/16 20:59 | 1       |

Lab Sample ID: LCS 240-253271/2-A

Matrix: Water

Analysis Batch: 253489

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 253271

| Analyte   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Manganese | 500         | 536        |               | ug/L |   | 107  | 80 - 120     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253489

Client Sample ID: GW-102516-TW-041

Prep Type: Dissolved

Prep Batch: 253271

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Manganese | 530           |                  | 500         | 1070      |              | ug/L |   | 108  | 75 - 125     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253489

Client Sample ID: GW-102516-TW-041

Prep Type: Dissolved

Prep Batch: 253271

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Manganese | 530           |                  | 500         | 1050       |               | ug/L |   | 103  | 75 - 125     | 2   | 20        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-254006/5

Matrix: Water

Analysis Batch: 254006

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                         | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Bicarbonate Alkalinity as CaCO3 | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 11/01/16 18:31 | 1       |
| Carbonate Alkalinity as CaCO3   | 5.0       | U            | 5.0 | 1.9 | mg/L |   |          | 11/01/16 18:31 | 1       |

Lab Sample ID: 240-71297-9 DU

Matrix: Water

Analysis Batch: 254006

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                         | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | Prepared | RPD | RPD Limit |
|---------------------------------|---------------|------------------|-----------|--------------|------|---|----------|-----|-----------|
| Bicarbonate Alkalinity as CaCO3 | 310           |                  | 307       |              | mg/L |   |          | 0.2 | 20        |
| Carbonate Alkalinity as CaCO3   | 5.0           | U                | 5.0       | U            | mg/L |   |          | NC  | 20        |

## Method: 2340C-1997 - Hardness, Total

Lab Sample ID: MB 240-253785/1

Matrix: Water

Analysis Batch: 253785

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                       | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Hardness as calcium carbonate | 5.0       | U            | 5.0 | 3.1 | mg/L |   |          | 11/01/16 06:48 | 1       |

Lab Sample ID: LCS 240-253785/2

Matrix: Water

Analysis Batch: 253785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Hardness as calcium carbonate | 170         | 162        |               | mg/L |   | 95   | 80 - 120     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253785

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Hardness as calcium carbonate | 330           |                  | 1000        | 1350      |              | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253785

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Hardness as calcium carbonate | 330           |                  | 1000        | 1370       |               | mg/L |   | 104  | 80 - 120     | 1   | 10        |

Lab Sample ID: 240-71297-9 DU

Matrix: Water

Analysis Batch: 253785

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                       | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | Prepared | RPD | RPD Limit |
|-------------------------------|---------------|------------------|-----------|--------------|------|---|----------|-----|-----------|
| Hardness as calcium carbonate | 330           |                  | 340       |              | mg/L |   |          | 2   | 20        |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-253171/3

Matrix: Water

Analysis Batch: 253171

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/26/16 10:02 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/26/16 10:02 | 1       |

Lab Sample ID: LCS 240-253171/4

Matrix: Water

Analysis Batch: 253171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 52.3       |               | mg/L |   | 105  | 90 - 110     |
| Sulfate  | 50.0        | 49.9       |               | mg/L |   | 100  | 90 - 110     |

Lab Sample ID: 240-71297-8 MS

Matrix: Water

Analysis Batch: 253171

Client Sample ID: GW-102516-TW-040

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 39            |                  | 50.0        | 97.2      |              | mg/L |   | 117  | 80 - 120     |
| Sulfate  | 56            |                  | 50.0        | 116       |              | mg/L |   | 120  | 80 - 120     |

Lab Sample ID: 240-71297-8 MSD

Matrix: Water

Analysis Batch: 253171

Client Sample ID: GW-102516-TW-040

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 39            |                  | 50.0        | 96.6       |               | mg/L |   | 116  | 80 - 120     | 1   | 15        |
| Sulfate  | 56            |                  | 50.0        | 116        |               | mg/L |   | 118  | 80 - 120     | 0   | 15        |

Lab Sample ID: MB 240-253172/3

Matrix: Water

Analysis Batch: 253172

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.10      | U            | 0.10 | 0.038 | mg/L |   |          | 10/26/16 10:02 | 1       |
| Nitrate as N | 0.10      | U            | 0.10 | 0.035 | mg/L |   |          | 10/26/16 10:02 | 1       |

Lab Sample ID: LCS 240-253172/4

Matrix: Water

Analysis Batch: 253172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrite as N | 2.50        | 2.54       |               | mg/L |   | 101  | 90 - 110     |
| Nitrate as N | 2.50        | 2.62       |               | mg/L |   | 105  | 90 - 110     |

Lab Sample ID: 240-71297-8 MS

Matrix: Water

Analysis Batch: 253172

Client Sample ID: GW-102516-TW-040

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrite as N | 0.10          | U                | 2.50        | 2.88      |              | mg/L |   | 115  | 80 - 120     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-71297-8 MS

Matrix: Water

Analysis Batch: 253172

Client Sample ID: GW-102516-TW-040

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrate as N | 2.9           |                  | 2.50        | 5.74      |              | mg/L |   | 115  | 80 - 120     |

Lab Sample ID: 240-71297-8 MSD

Matrix: Water

Analysis Batch: 253172

Client Sample ID: GW-102516-TW-040

Prep Type: Total/NA

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrite as N | 0.10          | U                | 2.50        | 2.88       |               | mg/L |   | 115  | 80 - 120     | 0   | 15        |
| Nitrate as N | 2.9           |                  | 2.50        | 5.75       |               | mg/L |   | 116  | 80 - 120     | 0   | 15        |

Lab Sample ID: MB 240-253352/13

Matrix: Water

Analysis Batch: 253352

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | 1.0       | U            | 1.0 | 0.41 | mg/L |   |          | 10/28/16 14:41 | 1       |
| Sulfate  | 1.0       | U            | 1.0 | 0.13 | mg/L |   |          | 10/28/16 14:41 | 1       |

Lab Sample ID: LCS 240-253352/14

Matrix: Water

Analysis Batch: 253352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0        | 50.3       |               | mg/L |   | 101  | 90 - 110     |
| Sulfate  | 50.0        | 51.6       |               | mg/L |   | 103  | 90 - 110     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253352

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 7.7           |                  | 50.0        | 59.3      |              | mg/L |   | 103  | 80 - 120     |
| Sulfate  | 59            |                  | 50.0        | 112       |              | mg/L |   | 105  | 80 - 120     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253352

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 7.7           |                  | 50.0        | 59.2       |               | mg/L |   | 103  | 80 - 120     | 0   | 15        |
| Sulfate  | 59            |                  | 50.0        | 112        |               | mg/L |   | 105  | 80 - 120     | 0   | 15        |

Lab Sample ID: MB 240-253353/13

Matrix: Water

Analysis Batch: 253353

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte      | MB Result | MB Qualifier | RL   | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Nitrite as N | 0.10      | U            | 0.10 | 0.038 | mg/L |   |          | 10/28/16 14:41 | 1       |
| Nitrate as N | 0.10      | U            | 0.10 | 0.035 | mg/L |   |          | 10/28/16 14:41 | 1       |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-253353/14

Matrix: Water

Analysis Batch: 253353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrite as N | 2.50        | 2.54       |               | mg/L |   | 102  | 90 - 110     |
| Nitrate as N | 2.50        | 2.63       |               | mg/L |   | 105  | 90 - 110     |

## Method: 300.0 - Anions, Ion Chromatography - RA

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253353

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte           | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrite as N - RA | 0.16          | H                | 2.50        | 2.94      | H            | mg/L |   | 111  | 80 - 120     |
| Nitrate as N - RA | 2.1           | H                | 2.50        | 4.92      | H            | mg/L |   | 114  | 80 - 120     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253353

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrite as N - RA | 0.16          | H                | 2.50        | 2.93       | H             | mg/L |   | 111  | 80 - 120     | 0   | 15        |
| Nitrate as N - RA | 2.1           | H                | 2.50        | 4.91       | H             | mg/L |   | 114  | 80 - 120     | 0   | 15        |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 240-253319/10-A

Matrix: Water

Analysis Batch: 253357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 253319

| Analyte | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|------|------|---|----------------|----------------|---------|
| Sulfide | 3.0       | U            | 3.0 | 0.94 | mg/L |   | 10/27/16 14:13 | 10/27/16 16:45 | 1       |

Lab Sample ID: LCS 240-253319/11-A

Matrix: Water

Analysis Batch: 253357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 253319

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfide | 8.13        | 7.20       |               | mg/L |   | 89   | 70 - 120     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253357

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

Prep Batch: 253319

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfide | 3.0           | U                | 8.13        | 4.80      |              | mg/L |   | 59   | 32 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253357

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

Prep Batch: 253319

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfide | 3.0           | U                | 8.13        | 5.60       |               | mg/L |   | 69   | 32 - 130     | 15  | 30        |

## Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 240-253360/4

Matrix: Water

Analysis Batch: 253360

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte              | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Total Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 10/27/16 09:28 | 1       |

Lab Sample ID: LCS 240-253360/6

Matrix: Water

Analysis Batch: 253360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Organic Carbon | 46.3        | 46.8       |               | mg/L |   | 101  | 80 - 120     |

Lab Sample ID: LLCS 240-253360/5

Matrix: Water

Analysis Batch: 253360

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Organic Carbon | 4.63        | 4.54        |                | mg/L |   | 98   | 88 - 115     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253360

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Total Organic Carbon | 4.3           |                  | 25.0        | 27.3      |              | mg/L |   | 92   | 65 - 134     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253360

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Total Organic Carbon | 4.3           |                  | 25.0        | 27.0       |               | mg/L |   | 91   | 65 - 134     | 1   | 10        |

## Method: 9060 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 240-253943/4

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Method Blank

Prep Type: Dissolved

| Analyte                  | MB Result | MB Qualifier | RL  | MDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|-------|------|---|----------|----------------|---------|
| Dissolved Organic Carbon | 1.0       | U            | 1.0 | 0.080 | mg/L |   |          | 11/01/16 06:48 | 1       |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Method: 9060 - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 240-253943/6

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| Dissolved Organic Carbon | 46.3        | 47.3       |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: LLCS 240-253943/5

Matrix: Water

Analysis Batch: 253943

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

| Analyte                  | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Dissolved Organic Carbon | 4.63        | 4.54        |                | mg/L |   | 98   | 88 - 115     |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253943

Client Sample ID: GW-102516-TW-041

Prep Type: Dissolved

| Analyte                  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Dissolved Organic Carbon | 4.2           |                  | 25.0        | 26.2      |              | mg/L |   | 88   | 65 - 134     |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253943

Client Sample ID: GW-102516-TW-041

Prep Type: Dissolved

| Analyte                  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Dissolved Organic Carbon | 4.2           |                  | 25.0        | 26.9       |               | mg/L |   | 91   | 65 - 134     | 2   | 10        |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## GC VOA

### Analysis Batch: 253703

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 240-71297-5      | GW-102516-TW-038   | Total/NA  | Water  | RSK-175 |            |
| 240-71297-7      | GW-102516-TW-039   | Total/NA  | Water  | RSK-175 |            |
| 240-71297-8      | GW-102516-TW-040   | Total/NA  | Water  | RSK-175 |            |
| MB 240-253703/4  | Method Blank       | Total/NA  | Water  | RSK-175 |            |
| LCS 240-253703/5 | Lab Control Sample | Total/NA  | Water  | RSK-175 |            |

### Analysis Batch: 253884

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 240-71297-9      | GW-102516-TW-041   | Total/NA  | Water  | RSK-175 |            |
| MB 240-253884/4  | Method Blank       | Total/NA  | Water  | RSK-175 |            |
| LCS 240-253884/5 | Lab Control Sample | Total/NA  | Water  | RSK-175 |            |
| 240-71297-9 MS   | GW-102516-TW-041   | Total/NA  | Water  | RSK-175 |            |
| 240-71297-9 MSD  | GW-102516-TW-041   | Total/NA  | Water  | RSK-175 |            |

## Metals

### Prep Batch: 253271

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71297-5        | GW-102516-TW-038   | Dissolved         | Water  | 3005A  |            |
| 240-71297-7        | GW-102516-TW-039   | Dissolved         | Water  | 3005A  |            |
| 240-71297-8        | GW-102516-TW-040   | Dissolved         | Water  | 3005A  |            |
| 240-71297-9        | GW-102516-TW-041   | Dissolved         | Water  | 3005A  |            |
| MB 240-253271/1-A  | Method Blank       | Total Recoverable | Water  | 3005A  |            |
| LCS 240-253271/2-A | Lab Control Sample | Total Recoverable | Water  | 3005A  |            |
| 240-71297-9 MS     | GW-102516-TW-041   | Dissolved         | Water  | 3005A  |            |
| 240-71297-9 MSD    | GW-102516-TW-041   | Dissolved         | Water  | 3005A  |            |

### Analysis Batch: 253489

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-71297-5        | GW-102516-TW-038   | Dissolved         | Water  | 6010B  | 253271     |
| 240-71297-7        | GW-102516-TW-039   | Dissolved         | Water  | 6010B  | 253271     |
| 240-71297-8        | GW-102516-TW-040   | Dissolved         | Water  | 6010B  | 253271     |
| 240-71297-9        | GW-102516-TW-041   | Dissolved         | Water  | 6010B  | 253271     |
| MB 240-253271/1-A  | Method Blank       | Total Recoverable | Water  | 6010B  | 253271     |
| LCS 240-253271/2-A | Lab Control Sample | Total Recoverable | Water  | 6010B  | 253271     |
| 240-71297-9 MS     | GW-102516-TW-041   | Dissolved         | Water  | 6010B  | 253271     |
| 240-71297-9 MSD    | GW-102516-TW-041   | Dissolved         | Water  | 6010B  | 253271     |

## General Chemistry

### Analysis Batch: 253171

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-5      | GW-102516-TW-038   | Total/NA  | Water  | 300.0  |            |
| 240-71297-7      | GW-102516-TW-039   | Total/NA  | Water  | 300.0  |            |
| 240-71297-8      | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |
| MB 240-253171/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-253171/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71297-8 MS   | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |
| 240-71297-8 MSD  | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## General Chemistry (Continued)

### Analysis Batch: 253172

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-5      | GW-102516-TW-038   | Total/NA  | Water  | 300.0  |            |
| 240-71297-7      | GW-102516-TW-039   | Total/NA  | Water  | 300.0  |            |
| 240-71297-8      | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |
| MB 240-253172/3  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-253172/4 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71297-8 MS   | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |
| 240-71297-8 MSD  | GW-102516-TW-040   | Total/NA  | Water  | 300.0  |            |

### Prep Batch: 253319

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-5         | GW-102516-TW-038   | Total/NA  | Water  | 9030B  |            |
| 240-71297-7         | GW-102516-TW-039   | Total/NA  | Water  | 9030B  |            |
| 240-71297-8         | GW-102516-TW-040   | Total/NA  | Water  | 9030B  |            |
| 240-71297-9         | GW-102516-TW-041   | Total/NA  | Water  | 9030B  |            |
| MB 240-253319/10-A  | Method Blank       | Total/NA  | Water  | 9030B  |            |
| LCS 240-253319/11-A | Lab Control Sample | Total/NA  | Water  | 9030B  |            |
| 240-71297-9 MS      | GW-102516-TW-041   | Total/NA  | Water  | 9030B  |            |
| 240-71297-9 MSD     | GW-102516-TW-041   | Total/NA  | Water  | 9030B  |            |

### Analysis Batch: 253352

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-9       | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |
| MB 240-253352/13  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-253352/14 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71297-9 MS    | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |
| 240-71297-9 MSD   | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 253353

| Lab Sample ID        | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|----------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-9 - RA     | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |
| MB 240-253353/13     | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 240-253353/14    | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 240-71297-9 MS - RA  | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |
| 240-71297-9 MSD - RA | GW-102516-TW-041   | Total/NA  | Water  | 300.0  |            |

### Analysis Batch: 253357

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-5         | GW-102516-TW-038   | Total/NA  | Water  | 9034   | 253319     |
| 240-71297-7         | GW-102516-TW-039   | Total/NA  | Water  | 9034   | 253319     |
| 240-71297-8         | GW-102516-TW-040   | Total/NA  | Water  | 9034   | 253319     |
| 240-71297-9         | GW-102516-TW-041   | Total/NA  | Water  | 9034   | 253319     |
| MB 240-253319/10-A  | Method Blank       | Total/NA  | Water  | 9034   | 253319     |
| LCS 240-253319/11-A | Lab Control Sample | Total/NA  | Water  | 9034   | 253319     |
| 240-71297-9 MS      | GW-102516-TW-041   | Total/NA  | Water  | 9034   | 253319     |
| 240-71297-9 MSD     | GW-102516-TW-041   | Total/NA  | Water  | 9034   | 253319     |

### Analysis Batch: 253360

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 240-71297-5   | GW-102516-TW-038 | Total/NA  | Water  | 9060   |            |
| 240-71297-7   | GW-102516-TW-039 | Total/NA  | Water  | 9060   |            |
| 240-71297-8   | GW-102516-TW-040 | Total/NA  | Water  | 9060   |            |

TestAmerica Canton

# QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## General Chemistry (Continued)

### Analysis Batch: 253360 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-9       | GW-102516-TW-041   | Total/NA  | Water  | 9060   |            |
| MB 240-253360/4   | Method Blank       | Total/NA  | Water  | 9060   |            |
| LCS 240-253360/6  | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| LLCS 240-253360/5 | Lab Control Sample | Total/NA  | Water  | 9060   |            |
| 240-71297-9 MS    | GW-102516-TW-041   | Total/NA  | Water  | 9060   |            |
| 240-71297-9 MSD   | GW-102516-TW-041   | Total/NA  | Water  | 9060   |            |

### Analysis Batch: 253785

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method     | Prep Batch |
|------------------|--------------------|-----------|--------|------------|------------|
| 240-71297-5      | GW-102516-TW-038   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-7      | GW-102516-TW-039   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-8      | GW-102516-TW-040   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-9      | GW-102516-TW-041   | Total/NA  | Water  | 2340C-1997 |            |
| MB 240-253785/1  | Method Blank       | Total/NA  | Water  | 2340C-1997 |            |
| LCS 240-253785/2 | Lab Control Sample | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-9 MS   | GW-102516-TW-041   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-9 MSD  | GW-102516-TW-041   | Total/NA  | Water  | 2340C-1997 |            |
| 240-71297-9 DU   | GW-102516-TW-041   | Total/NA  | Water  | 2340C-1997 |            |

### Analysis Batch: 253943

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-5       | GW-102516-TW-038   | Dissolved | Water  | 9060   |            |
| 240-71297-7       | GW-102516-TW-039   | Dissolved | Water  | 9060   |            |
| 240-71297-8       | GW-102516-TW-040   | Dissolved | Water  | 9060   |            |
| 240-71297-9       | GW-102516-TW-041   | Dissolved | Water  | 9060   |            |
| MB 240-253943/4   | Method Blank       | Dissolved | Water  | 9060   |            |
| LCS 240-253943/6  | Lab Control Sample | Dissolved | Water  | 9060   |            |
| LLCS 240-253943/5 | Lab Control Sample | Dissolved | Water  | 9060   |            |
| 240-71297-9 MS    | GW-102516-TW-041   | Dissolved | Water  | 9060   |            |
| 240-71297-9 MSD   | GW-102516-TW-041   | Dissolved | Water  | 9060   |            |

### Analysis Batch: 254006

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|-----------------|------------------|-----------|--------|------------|------------|
| 240-71297-5     | GW-102516-TW-038 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71297-7     | GW-102516-TW-039 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71297-8     | GW-102516-TW-040 | Total/NA  | Water  | 2320B-1997 |            |
| 240-71297-9     | GW-102516-TW-041 | Total/NA  | Water  | 2320B-1997 |            |
| MB 240-254006/5 | Method Blank     | Total/NA  | Water  | 2320B-1997 |            |
| 240-71297-9 DU  | GW-102516-TW-041 | Total/NA  | Water  | 2320B-1997 |            |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

**Client Sample ID: GW-102516-TW-038**

**Date Collected: 10/25/16 14:10**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 19:15       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253271       | 10/27/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253489       | 10/28/16 21:36       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 22:29       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253785       | 11/01/16 07:51       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253171       | 10/26/16 16:02       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253172       | 10/26/16 16:02       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253319       | 10/27/16 14:13       | JMB     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253357       | 10/27/16 16:53       | JMB     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 15:09       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253360       | 10/27/16 17:41       | TPH     | TAL CAN |

**Client Sample ID: GW-102516-TW-039**

**Date Collected: 10/25/16 15:55**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 19:32       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253271       | 10/27/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253489       | 10/28/16 21:40       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/02/16 00:13       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253785       | 11/01/16 08:00       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253171       | 10/26/16 16:20       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253172       | 10/26/16 16:20       | LCN     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253319       | 10/27/16 14:13       | JMB     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253357       | 10/27/16 16:57       | JMB     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 15:36       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253360       | 10/27/16 18:09       | TPH     | TAL CAN |

**Client Sample ID: GW-102516-TW-040**

**Date Collected: 10/25/16 15:55**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253703       | 10/31/16 19:49       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253271       | 10/27/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253489       | 10/28/16 21:44       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/02/16 00:26       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253785       | 11/01/16 08:10       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253171       | 10/26/16 16:38       | LCN     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253172       | 10/26/16 16:38       | LCN     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

**Client Sample ID: GW-102516-TW-040**

**Lab Sample ID: 240-71297-8**

**Date Collected: 10/25/16 15:55**

**Matrix: Water**

**Date Received: 10/26/16 09:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 9030B        |     |                 | 253319       | 10/27/16 14:13       | JMB     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253357       | 10/27/16 17:01       | JMB     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 16:03       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253360       | 10/27/16 18:36       | TPH     | TAL CAN |

**Client Sample ID: GW-102516-TW-041**

**Lab Sample ID: 240-71297-9**

**Date Collected: 10/25/16 18:40**

**Matrix: Water**

**Date Received: 10/26/16 09:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | RSK-175      |     | 1               | 253884       | 11/01/16 17:28       | BPM     | TAL CAN |
| Dissolved | Prep       | 3005A        |     |                 | 253271       | 10/27/16 14:00       | AJC     | TAL CAN |
| Dissolved | Analysis   | 6010B        |     | 1               | 253489       | 10/28/16 21:16       | RKT     | TAL CAN |
| Total/NA  | Analysis   | 2320B-1997   |     | 1               | 254006       | 11/01/16 23:07       | JWW     | TAL CAN |
| Total/NA  | Analysis   | 2340C-1997   |     | 1               | 253785       | 11/01/16 07:15       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 300.0        |     | 1               | 253352       | 10/28/16 15:21       | LKG     | TAL CAN |
| Total/NA  | Analysis   | 300.0        | RA  | 1               | 253353       | 10/28/16 15:21       | LKG     | TAL CAN |
| Total/NA  | Prep       | 9030B        |     |                 | 253319       | 10/27/16 14:13       | JMB     | TAL CAN |
| Total/NA  | Analysis   | 9034         |     | 1               | 253357       | 10/27/16 17:04       | JMB     | TAL CAN |
| Dissolved | Analysis   | 9060         |     | 1               | 253943       | 11/01/16 12:20       | TPH     | TAL CAN |
| Total/NA  | Analysis   | 9060         |     | 1               | 253360       | 10/27/16 15:13       | TPH     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-1

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton



TestAmerica Canton 2.6/1C2.0  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

## Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

|                                                        |  |                                            |  |                                             |  |                                                                                                                                                                                          |  |
|--------------------------------------------------------|--|--------------------------------------------|--|---------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b>                              |  | Lab PM: Heckler, Denise D                  |  | Carrier/Tracking No(s): FedEx               |  | COC No: 240-37918-16623.9                                                                                                                                                                |  |
| Client Contact: Ms. Deborah Andrasko                   |  | Phone: 905-328-0632                        |  | E-Mail: denise.heckler@testamericainc.com   |  | Page: 1 of 1                                                                                                                                                                             |  |
| Company: GHD Services Inc.                             |  | Address: 2055 Niagara Falls Blvd., Suite 3 |  | City: Niagara Falls                         |  | State, Zip: NY, 14304                                                                                                                                                                    |  |
| Phone: 4057448                                         |  | Email: deb.andrasko@ghd.com                |  | Project Name: 17302, RACER Delphi Anderson  |  | Project #: 24007143                                                                                                                                                                      |  |
| Site: Racer Anderson                                   |  | SSOW#: 017302707                           |  | Due Date Requested: 2 week (std)            |  | TAT Requested (days): 2 week (std)                                                                                                                                                       |  |
| Sample Identification                                  |  | Sample Date                                |  | Sample Time                                 |  | Sample Type (C=Comp, G=grab)                                                                                                                                                             |  |
| IP-102516-TW-004                                       |  | 25 Oct 16                                  |  | 9:20                                        |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-035                                       |  | 10:40                                      |  | 10:40                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-036                                       |  | 12:50                                      |  | 12:50                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-037                                       |  | 14:10                                      |  | 14:10                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-038                                       |  | 17:05                                      |  | 17:05                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-039                                       |  | 15:55                                      |  | 15:55                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-040                                       |  | 15:55                                      |  | 15:55                                       |  | Water                                                                                                                                                                                    |  |
| GW-102516-TW-041                                       |  | 18:40                                      |  | 18:40                                       |  | Water                                                                                                                                                                                    |  |
| Possible Hazard Identification                         |  | Non-Hazard                                 |  | Flammable                                   |  | Skin Irritant                                                                                                                                                                            |  |
| Deliverable Requested: I, II, III, IV, Other (specify) |  | Poison B                                   |  | Unknown                                     |  | Radiological                                                                                                                                                                             |  |
| Empty Kit Relinquished by:                             |  | Date:                                      |  | Time:                                       |  | Method of Shipment: FedEx                                                                                                                                                                |  |
| Relinquished by: T-RWittmayer                          |  | Date/Time: 25 Oct 16 20:30                 |  | Company: GHD                                |  | Received by: [Signature]                                                                                                                                                                 |  |
| Relinquished by:                                       |  | Date/Time:                                 |  | Company:                                    |  | Received by:                                                                                                                                                                             |  |
| Relinquished by:                                       |  | Date/Time:                                 |  | Company:                                    |  | Received by:                                                                                                                                                                             |  |
| Custody Seals Intact: Δ Yes Δ No                       |  | Custody Seal No.:                          |  | Cooler Temperature(s) °C and Other Remarks: |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                                                                      |  |
|                                                        |  |                                            |  |                                             |  | Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months                                                           |  |
|                                                        |  |                                            |  |                                             |  | Special Instructions/QC Requirements:                                                                                                                                                    |  |
|                                                        |  |                                            |  |                                             |  | Total Number of Containers: 17                                                                                                                                                           |  |
|                                                        |  |                                            |  |                                             |  | Preservation Codes:                                                                                                                                                                      |  |
|                                                        |  |                                            |  |                                             |  | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: _____ |  |
|                                                        |  |                                            |  |                                             |  | M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify)    |  |
|                                                        |  |                                            |  |                                             |  | ins/Note:                                                                                                                                                                                |  |
|                                                        |  |                                            |  |                                             |  | 240-71297 Chain of Custody                                                                                                                                                               |  |



**TestAmerica Canton**

4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

**Chain of Custody Record**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

|                                                        |  |                                                |  |                                           |  |                                                 |  |
|--------------------------------------------------------|--|------------------------------------------------|--|-------------------------------------------|--|-------------------------------------------------|--|
| <b>Client Information</b>                              |  | Lab PM: Heckler, Denise D                      |  | Carrier Tracking No(s): <b>FedEx</b>      |  | COC No: 240-37918-16623.7                       |  |
| Client Contact: Ms. Deborah Andrasko                   |  | Phone: 915-328-0632                            |  | E-Mail: denise.heckler@testamericainc.com |  | Page: Page 1 of 1                               |  |
| Company: GHD Services Inc.                             |  | Address: 2055 Niagara Falls Blvd., Suite 3     |  | City: Niagara Falls                       |  | State, Zip: NY, 14304                           |  |
| Phone: 4057448                                         |  | Email: deb.andrasko@ghd.com                    |  | Project #: 17302, RACER Delphi Anderson   |  | Site: Racer Anderson                            |  |
| Due Date Requested:                                    |  | TAT Requested (days): 2 week (6d)              |  | PO #: 4057448                             |  | WO #: 17302                                     |  |
| Sample Date: 25-Oct-16                                 |  | Sample Time: 19:40                             |  | Sample Type: G=grab                       |  | Matrix: Water                                   |  |
| Sample Identification: PW-102515-TW-001                |  | Preservation Code: 6                           |  | Field Filtered Sample (Yes or No):        |  | Perform MS/MSD (Yes or No):                     |  |
| Analysis Requested:                                    |  | 9034 Calc - Sulfide                            |  | 2220B - Alkalinity, Carb and Bicarb       |  | 2340C - Hardness as calcium carbonate           |  |
|                                                        |  | 8260B - VOCs                                   |  | 8260B - VOCs                              |  | 9060 Diss - DOC                                 |  |
|                                                        |  | RSK_175 - Dissolved Gases                      |  | 9060 TOC                                  |  | 300.0-28D - Chloride, Sulfate, Nitrate, Nitrite |  |
|                                                        |  | 6010B - Manganese                              |  |                                           |  |                                                 |  |
| Special Instructions/Note:                             |  | Total Number of Containers: 2                  |  |                                           |  |                                                 |  |
| 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:                                         |  |                                           |  |                                                 |  |
| Possible Hazard Identification                         |  | <input checked="" type="checkbox"/> Non-Hazard |  | <input type="checkbox"/> Flammable        |  | <input type="checkbox"/> Skin Irritant          |  |
| Deliverable Requested: I, II, III, IV, Other (specify) |  | <input type="checkbox"/> Poison B              |  | <input type="checkbox"/> Unknown          |  | <input type="checkbox"/> Radiological           |  |
| Empty Kit Relinquished by:                             |  | Date:                                          |  | Time:                                     |  | Method of Shipment: FedEx                       |  |
| Relinquished by: Tyler W. Anderson                     |  | Date/Time: 25/10/16 20:30                      |  | Company: GHD                              |  | Received by: [Signature]                        |  |
| Relinquished by:                                       |  | Date/Time:                                     |  | Company:                                  |  | Received by:                                    |  |
| Relinquished by:                                       |  | Date/Time:                                     |  | Company:                                  |  | Received by:                                    |  |
| Custody Seals Intact: Δ Yes Δ No                       |  | Custody Seal No.:                              |  |                                           |  | Cooler Temperature(s), °C and Other Remarks:    |  |



## Chain of Custody Record

[illegible]

| TestAmerica Canton Sample Receipt Form/Narrative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                |  | Login # : <u>71797</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------|--|------------------------|
| Canton Facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                                |  |                        |
| Client <u>GH</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Site Name _____           | Cooler unpacked by: <u>DSD</u> |  |                        |
| Cooler Received on <u>10/26/16</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Opened on <u>10/26/16</u> |                                |  |                        |
| FedEx: 1 <sup>st</sup> Grd <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Stetson <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                                                                                                                                                                                          |                           |                                |  |                        |
| Receipt After-hours: Drop-off Date/Time _____ Storage Location _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                                |  |                        |
| TestAmerica Cooler # _____ Foam Box <input type="checkbox"/> Client Cooler <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/><br>Packing material used: Bubble Wrap <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input checked="" type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/><br>COOLANT: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/> |                           |                                |  |                        |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form<br>IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. <u>2.6</u> °C Corrected Cooler Temp. <u>3.0</u> °C<br>IR GUN #36 (CF +1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C                                                                                                                                                                                                                                                                                                     |                           |                                |  |                        |
| 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>-Were custody seals on the outside of the cooler(s) signed & dated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/><br>-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                      |                           |                                |  |                        |
| 3. Shippers' packing slip attached to the cooler(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                                |  |                        |
| 4. Did custody papers accompany the sample(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |                                |  |                        |
| 5. Were the custody papers relinquished & signed in the appropriate place? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                |  |                        |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                                |  |                        |
| 7. Did all bottles arrive in good condition (Unbroken)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                |  |                        |
| 8. Could all bottle labels be reconciled with the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |                                |  |                        |
| 9. Were correct bottle(s) used for the test(s) indicated? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                                |  |                        |
| 10. Sufficient quantity received to perform indicated analyses? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |                                |  |                        |
| 11. Are these work share samples? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |                                |  |                        |
| If yes, Questions 11-15 have been checked at the originating laboratory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                                |  |                        |
| 11. Were sample(s) at the correct pH upon receipt? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> pH Strip Lot# <u>HC682547</u>                                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                |  |                        |
| 12. Were VOAs on the COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                                |  |                        |
| 13. Were air bubbles >6 mm in any VOA vials? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |                                |  |                        |
| 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>BC152011B</u> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                                |  |                        |
| 15. Was a LL Hg or Me Hg trip blank present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                |  |                        |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                                |  |                        |
| Concerning _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |                                |  |                        |

|                                                                                                                                                                                                                                                  |                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>16. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b><br><br><br><br><br><br><br><br>                                                                                                                                                           | Samples processed by: _____<br><br><br><br> |
| <b>17. SAMPLE CONDITION</b><br>Sample(s) _____ were received after the recommended holding time had expired.<br>Sample(s) _____ were received in a broken container.<br>Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM) |                                             |
| <b>18. SAMPLE PRESERVATION</b><br>Sample(s) _____ were further preserved in the laboratory.<br>Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                  |                                             |



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u>  | <u>Container Type</u>               | <u>Container<br/>pH</u> | <u>Preservative<br/>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|----------------|-------------------------------------|-------------------------|-------------------------------------|--------------|
| GW-102516-TW-038        | 240-71297-N-5  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-038        | 240-71297-P-5  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-038        | 240-71297-Q-5  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-N-7  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-P-7  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-Q-7  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-N-8  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-P-8  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-Q-8  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AM-9 | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AN-9 | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AQ-9 | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AR-9 | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AS-9 | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AT-9 | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-71297-2

Client Project/Site: 17302-T07, RACER Delphi Anderson

For:

GHD Services Inc.

2055 Niagara Falls Blvd., Suite 3

Niagara Falls, New York 14304

Attn: Ms. Deborah Andrasko



Authorized for release by:

11/3/2016 3:51:33 PM

Denise Heckler, Project Manager II

(330)966-9477

[denise.heckler@testamericainc.com](mailto:denise.heckler@testamericainc.com)

### LINKS

Review your project  
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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                       |



## Case Narrative

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

**Job ID: 240-71297-2**

**Laboratory: TestAmerica Canton**

### Narrative

#### Job Narrative 240-71297-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/26/2016 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 3.0° C.

#### GC/MS VOA

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.

## Method Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

### Protocol References:

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: GHD Services Inc.

Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-71297-1   | TB-102516-TW-004 | Water  | 10/25/16 00:00 | 10/26/16 09:25 |
| 240-71297-2   | GW-102516-TW-035 | Water  | 10/25/16 09:20 | 10/26/16 09:25 |
| 240-71297-3   | GW-102516-TW-036 | Water  | 10/25/16 10:40 | 10/26/16 09:25 |
| 240-71297-4   | GW-102516-TW-037 | Water  | 10/25/16 12:50 | 10/26/16 09:25 |
| 240-71297-5   | GW-102516-TW-038 | Water  | 10/25/16 14:10 | 10/26/16 09:25 |
| 240-71297-6   | EB-102516-TW-003 | Water  | 10/25/16 17:05 | 10/26/16 09:25 |
| 240-71297-7   | GW-102516-TW-039 | Water  | 10/25/16 15:55 | 10/26/16 09:25 |
| 240-71297-8   | GW-102516-TW-040 | Water  | 10/25/16 15:55 | 10/26/16 09:25 |
| 240-71297-9   | GW-102516-TW-041 | Water  | 10/25/16 18:40 | 10/26/16 09:25 |

# Detection Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

## Client Sample ID: TB-102516-TW-004

Lab Sample ID: 240-71297-1

No Detections.

## Client Sample ID: GW-102516-TW-035

Lab Sample ID: 240-71297-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 120    |           | 5.0 | 1.5 | ug/L | 5       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102516-TW-036

Lab Sample ID: 240-71297-3

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4400   |           | 200 | 60  | ug/L | 200     |   | 8260B  | Total/NA  |
| Vinyl chloride         | 120    | J         | 200 | 90  | ug/L | 200     |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102516-TW-037

Lab Sample ID: 240-71297-4

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 1.2    |           | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102516-TW-038

Lab Sample ID: 240-71297-5

| Analyte                  | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane       | 35     | J         | 50 | 13  | ug/L | 50      |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene   | 1100   |           | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| trans-1,2-Dichloroethene | 25     | J         | 50 | 15  | ug/L | 50      |   | 8260B  | Total/NA  |
| Vinyl chloride           | 85     |           | 50 | 23  | ug/L | 50      |   | 8260B  | Total/NA  |

## Client Sample ID: EB-102516-TW-003

Lab Sample ID: 240-71297-6

No Detections.

## Client Sample ID: GW-102516-TW-039

Lab Sample ID: 240-71297-7

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane  | 1.9    |           | 1.0 | 0.23 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 0.30   | J         | 1.0 | 0.30 | ug/L | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102516-TW-040

Lab Sample ID: 240-71297-8

| Analyte               | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 1.9    |           | 1.0 | 0.23 | ug/L | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: GW-102516-TW-041

Lab Sample ID: 240-71297-9

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane  | 330    |           | 250 | 58  | ug/L | 250     |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 110    | J         | 250 | 63  | ug/L | 250     |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 1900   |           | 250 | 75  | ug/L | 250     |   | 8260B  | Total/NA  |
| Trichloroethene        | 4900   |           | 250 | 83  | ug/L | 250     |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: TB-102516-TW-004

Date Collected: 10/25/16 00:00

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-1

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 11/01/16 13:29 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 11/01/16 13:29 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 13:29 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:29 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 13:29 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 11/01/16 13:29 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 13:29 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 11/01/16 13:29 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 11/01/16 13:29 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 13:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 63 - 132 |          | 11/01/16 13:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 73 - 120 |          | 11/01/16 13:29 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 73 - 124 |          | 11/01/16 13:29 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 80 - 120 |          | 11/01/16 13:29 | 1       |

Client Sample ID: GW-102516-TW-035

Date Collected: 10/25/16 09:20

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-2

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 5.0    | U         | 5.0 | 1.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 1,1,2,2-Tetrachloroethane | 5.0    | U         | 5.0 | 1.6 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 1,1,2-Trichloroethane     | 5.0    | U         | 5.0 | 1.7 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 1,1-Dichloroethane        | 5.0    | U         | 5.0 | 1.3 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 1,1-Dichloroethene        | 5.0    | U         | 5.0 | 1.4 | ug/L |   |          | 11/01/16 13:52 | 5       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: GW-102516-TW-035

Date Collected: 10/25/16 09:20

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-2

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane           | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 1,2-Dichloropropane          | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 2-Hexanone                   | 50        | U         | 50       | 6.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Acetone                      | 50        | U         | 50       | 8.8 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Benzene                      | 5.0       | U         | 5.0      | 1.4 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Bromoform                    | 5.0       | U         | 5.0      | 2.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Bromomethane                 | 5.0       | U         | 5.0      | 2.1 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Carbon disulfide             | 5.0       | U         | 5.0      | 1.7 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Carbon tetrachloride         | 5.0       | U         | 5.0      | 1.8 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Chlorobenzene                | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Chloroethane                 | 5.0       | U         | 5.0      | 2.1 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Chloroform                   | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Chloromethane                | 5.0       | U         | 5.0      | 2.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| cis-1,2-Dichloroethene       | 120       |           | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| cis-1,3-Dichloropropene      | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Dichlorobromomethane         | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Ethylbenzene                 | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 2-Butanone (MEK)             | 50        | U         | 50       | 5.1 | ug/L |   |          | 11/01/16 13:52 | 5       |
| 4-Methyl-2-pentanone (MIBK)  | 50        | U         | 50       | 3.6 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Methylene Chloride           | 5.0       | U         | 5.0      | 2.7 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Styrene                      | 5.0       | U         | 5.0      | 1.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Tetrachloroethene            | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Toluene                      | 5.0       | U         | 5.0      | 1.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| trans-1,2-Dichloroethene     | 5.0       | U         | 5.0      | 1.5 | ug/L |   |          | 11/01/16 13:52 | 5       |
| trans-1,3-Dichloropropene    | 5.0       | U         | 5.0      | 1.6 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Trichloroethene              | 5.0       | U         | 5.0      | 1.7 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Vinyl chloride               | 5.0       | U         | 5.0      | 2.3 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Xylenes, Total               | 10        | U         | 10       | 1.2 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Chlorodibromomethane         | 5.0       | U         | 5.0      | 1.3 | ug/L |   |          | 11/01/16 13:52 | 5       |
| Surrogate                    | %Recovery | Qualifier | Limits   |     |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |     |      |   |          | 11/01/16 13:52 | 5       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 73 - 120 |     |      |   |          | 11/01/16 13:52 | 5       |
| Toluene-d8 (Surr)            | 86        |           | 73 - 124 |     |      |   |          | 11/01/16 13:52 | 5       |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |     |      |   |          | 11/01/16 13:52 | 5       |

Client Sample ID: GW-102516-TW-036

Date Collected: 10/25/16 10:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-3

Matrix: Water

| Analyte                   | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 200    | U         | 200  | 46  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,1,1,2-Tetrachloroethane | 200    | U         | 200  | 64  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,1,2-Trichloroethane     | 200    | U         | 200  | 68  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,1-Dichloroethane        | 200    | U         | 200  | 50  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,1-Dichloroethene        | 200    | U         | 200  | 54  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,2-Dichloroethane        | 200    | U         | 200  | 60  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 1,2-Dichloropropane       | 200    | U         | 200  | 60  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 2-Hexanone                | 2000   | U         | 2000 | 250 | ug/L |   |          | 11/01/16 14:15 | 200     |
| Acetone                   | 2000   | U         | 2000 | 350 | ug/L |   |          | 11/01/16 14:15 | 200     |
| Benzene                   | 200    | U         | 200  | 56  | ug/L |   |          | 11/01/16 14:15 | 200     |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: GW-102516-TW-036

Date Collected: 10/25/16 10:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-3

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Bromoform                   | 200    | U         | 200  | 86  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Bromomethane                | 200    | U         | 200  | 84  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Carbon disulfide            | 200    | U         | 200  | 68  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Carbon tetrachloride        | 200    | U         | 200  | 70  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Chlorobenzene               | 200    | U         | 200  | 64  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Chloroethane                | 200    | U         | 200  | 82  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Chloroform                  | 200    | U         | 200  | 62  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Chloromethane               | 200    | U         | 200  | 86  | ug/L |   |          | 11/01/16 14:15 | 200     |
| cis-1,2-Dichloroethene      | 4400   |           | 200  | 60  | ug/L |   |          | 11/01/16 14:15 | 200     |
| cis-1,3-Dichloropropene     | 200    | U         | 200  | 52  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Dichlorobromomethane        | 200    | U         | 200  | 60  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Ethylbenzene                | 200    | U         | 200  | 52  | ug/L |   |          | 11/01/16 14:15 | 200     |
| 2-Butanone (MEK)            | 2000   | U         | 2000 | 200 | ug/L |   |          | 11/01/16 14:15 | 200     |
| 4-Methyl-2-pentanone (MIBK) | 2000   | U         | 2000 | 140 | ug/L |   |          | 11/01/16 14:15 | 200     |
| Methylene Chloride          | 200    | U         | 200  | 110 | ug/L |   |          | 11/01/16 14:15 | 200     |
| Styrene                     | 200    | U         | 200  | 46  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Tetrachloroethene           | 200    | U         | 200  | 60  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Toluene                     | 200    | U         | 200  | 46  | ug/L |   |          | 11/01/16 14:15 | 200     |
| trans-1,2-Dichloroethene    | 200    | U         | 200  | 58  | ug/L |   |          | 11/01/16 14:15 | 200     |
| trans-1,3-Dichloropropene   | 200    | U         | 200  | 62  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Trichloroethene             | 200    | U         | 200  | 66  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Vinyl chloride              | 120 J  |           | 200  | 90  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Xylenes, Total              | 400    | U         | 400  | 48  | ug/L |   |          | 11/01/16 14:15 | 200     |
| Chlorodibromomethane        | 200    | U         | 200  | 50  | ug/L |   |          | 11/01/16 14:15 | 200     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |          | 11/01/16 14:15 | 200     |
| 4-Bromofluorobenzene (Surr)  | 85        |           | 73 - 120 |          | 11/01/16 14:15 | 200     |
| Toluene-d8 (Surr)            | 86        |           | 73 - 124 |          | 11/01/16 14:15 | 200     |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 11/01/16 14:15 | 200     |

Client Sample ID: GW-102516-TW-037

Date Collected: 10/25/16 12:50

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-4

Matrix: Water

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,1,2-Trichloroethane     | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,1-Dichloroethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,1-Dichloroethene        | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,2-Dichloroethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 1,2-Dichloropropane       | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 2-Hexanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 11/01/16 14:39 | 1       |
| Acetone                   | 10     | U         | 10  | 1.8  | ug/L |   |          | 11/01/16 14:39 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 14:39 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: GW-102516-TW-037

Date Collected: 10/25/16 12:50

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-4

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 14:39 | 1       |
| cis-1,2-Dichloroethene      | 1.2    |           | 1.0 | 0.30 | ug/L |   |          | 11/01/16 14:39 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 14:39 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 11/01/16 14:39 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 14:39 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 11/01/16 14:39 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 11/01/16 14:39 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 14:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |          | 11/01/16 14:39 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 11/01/16 14:39 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 73 - 124 |          | 11/01/16 14:39 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 80 - 120 |          | 11/01/16 14:39 | 1       |

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 50     | U         | 50  | 12  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,1,1,2,2-Tetrachloroethane | 50     | U         | 50  | 16  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,1,2-Trichloroethane       | 50     | U         | 50  | 17  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,1-Dichloroethane          | 35     | J         | 50  | 13  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,1-Dichloroethene          | 50     | U         | 50  | 14  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,2-Dichloroethane          | 50     | U         | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 1,2-Dichloropropane         | 50     | U         | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 2-Hexanone                  | 500    | U         | 500 | 62  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Acetone                     | 500    | U         | 500 | 88  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Benzene                     | 50     | U         | 50  | 14  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Bromoform                   | 50     | U         | 50  | 22  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Bromomethane                | 50     | U         | 50  | 21  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Carbon disulfide            | 50     | U         | 50  | 17  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Carbon tetrachloride        | 50     | U         | 50  | 18  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Chlorobenzene               | 50     | U         | 50  | 16  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Chloroethane                | 50     | U         | 50  | 21  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Chloroform                  | 50     | U         | 50  | 16  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Chloromethane               | 50     | U         | 50  | 22  | ug/L |   |          | 11/01/16 15:02 | 50      |
| cis-1,2-Dichloroethene      | 1100   |           | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| cis-1,3-Dichloropropene     | 50     | U         | 50  | 13  | ug/L |   |          | 11/01/16 15:02 | 50      |

TestAmerica Canton



# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: GW-102516-TW-038

Date Collected: 10/25/16 14:10

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-5

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Dichlorobromomethane        | 50     | U         | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Ethylbenzene                | 50     | U         | 50  | 13  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 2-Butanone (MEK)            | 500    | U         | 500 | 51  | ug/L |   |          | 11/01/16 15:02 | 50      |
| 4-Methyl-2-pentanone (MIBK) | 500    | U         | 500 | 36  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Methylene Chloride          | 50     | U         | 50  | 27  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Styrene                     | 50     | U         | 50  | 12  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Tetrachloroethene           | 50     | U         | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Toluene                     | 50     | U         | 50  | 12  | ug/L |   |          | 11/01/16 15:02 | 50      |
| trans-1,2-Dichloroethene    | 25     | J         | 50  | 15  | ug/L |   |          | 11/01/16 15:02 | 50      |
| trans-1,3-Dichloropropene   | 50     | U         | 50  | 16  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Trichloroethene             | 50     | U         | 50  | 17  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Vinyl chloride              | 85     |           | 50  | 23  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Xylenes, Total              | 100    | U         | 100 | 12  | ug/L |   |          | 11/01/16 15:02 | 50      |
| Chlorodibromomethane        | 50     | U         | 50  | 13  | ug/L |   |          | 11/01/16 15:02 | 50      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 63 - 132 |          | 11/01/16 15:02 | 50      |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 11/01/16 15:02 | 50      |
| Toluene-d8 (Surr)            | 85        |           | 73 - 124 |          | 11/01/16 15:02 | 50      |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |          | 11/01/16 15:02 | 50      |

Client Sample ID: EB-102516-TW-003

Date Collected: 10/25/16 17:05

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-6

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 11/01/16 15:25 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 11/01/16 15:25 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 15:25 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:25 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 15:25 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 11/01/16 15:25 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 11/01/16 15:25 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: EB-102516-TW-003

Date Collected: 10/25/16 17:05

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-6

Matrix: Water

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Styrene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.30 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Toluene                      | 1.0       | U         | 1.0      | 0.23 | ug/L |   |          | 11/01/16 15:25 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.29 | ug/L |   |          | 11/01/16 15:25 | 1       |
| trans-1,3-Dichloropropene    | 1.0       | U         | 1.0      | 0.31 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.33 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0      | 0.45 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Xylenes, Total               | 2.0       | U         | 2.0      | 0.24 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Chlorodibromomethane         | 1.0       | U         | 1.0      | 0.25 | ug/L |   |          | 11/01/16 15:25 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |      |      |   |          | 11/01/16 15:25 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |      |      |   |          | 11/01/16 15:25 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 73 - 124 |      |      |   |          | 11/01/16 15:25 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 80 - 120 |      |      |   |          | 11/01/16 15:25 | 1       |

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.9    |           | 1.0 | 0.23 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,1,1,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 11/01/16 15:49 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 11/01/16 15:49 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 15:49 | 1       |
| cis-1,2-Dichloroethene      | 0.30   | J         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:49 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 15:49 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 11/01/16 15:49 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 15:49 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 11/01/16 15:49 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 15:49 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Client Sample ID: GW-102516-TW-039

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-7

Matrix: Water

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Trichloroethene      | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Vinyl chloride       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Xylenes, Total       | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 11/01/16 15:49 | 1       |
| Chlorodibromomethane | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 15:49 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |          | 11/01/16 15:49 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84        |           | 73 - 120 |          | 11/01/16 15:49 | 1       |
| Toluene-d8 (Surr)            | 84        |           | 73 - 124 |          | 11/01/16 15:49 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 11/01/16 15:49 | 1       |

Client Sample ID: GW-102516-TW-040

Date Collected: 10/25/16 15:55

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-8

Matrix: Water

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 1.9    |           | 1.0 | 0.23 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,1,2-Trichloroethane       | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.27 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 11/01/16 16:11 | 1       |
| Acetone                     | 10     | U         | 10  | 1.8  | ug/L |   |          | 11/01/16 16:11 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.28 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.34 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.32 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 11/01/16 16:11 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 16:11 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Dichlorobromomethane        | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 11/01/16 16:11 | 1       |
| 2-Butanone (MEK)            | 10     | U         | 10  | 1.0  | ug/L |   |          | 11/01/16 16:11 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10     | U         | 10  | 0.71 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Methylene Chloride          | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Tetrachloroethene           | 1.0    | U         | 1.0 | 0.30 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Toluene                     | 1.0    | U         | 1.0 | 0.23 | ug/L |   |          | 11/01/16 16:11 | 1       |
| trans-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.29 | ug/L |   |          | 11/01/16 16:11 | 1       |
| trans-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.31 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Trichloroethene             | 1.0    | U         | 1.0 | 0.33 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Vinyl chloride              | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Xylenes, Total              | 2.0    | U         | 2.0 | 0.24 | ug/L |   |          | 11/01/16 16:11 | 1       |
| Chlorodibromomethane        | 1.0    | U         | 1.0 | 0.25 | ug/L |   |          | 11/01/16 16:11 | 1       |

TestAmerica Canton

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 63 - 132 |          | 11/01/16 16:11 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 73 - 120 |          | 11/01/16 16:11 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 73 - 124 |          | 11/01/16 16:11 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 80 - 120 |          | 11/01/16 16:11 | 1       |

Client Sample ID: GW-102516-TW-041

Date Collected: 10/25/16 18:40

Date Received: 10/26/16 09:25

Lab Sample ID: 240-71297-9

Matrix: Water

| Analyte                     | Result | Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 330    |           | 250  | 58  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,1,2,2-Tetrachloroethane   | 250    | U         | 250  | 80  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,1,2-Trichloroethane       | 250    | U         | 250  | 85  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,1-Dichloroethane          | 110    | J         | 250  | 63  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,1-Dichloroethene          | 250    | U         | 250  | 68  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,2-Dichloroethane          | 250    | U         | 250  | 75  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 1,2-Dichloropropane         | 250    | U         | 250  | 75  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 2-Hexanone                  | 2500   | U         | 2500 | 310 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Acetone                     | 2500   | U         | 2500 | 440 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Benzene                     | 250    | U         | 250  | 70  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Bromoform                   | 250    | U         | 250  | 110 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Bromomethane                | 250    | U         | 250  | 110 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Carbon disulfide            | 250    | U         | 250  | 85  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Carbon tetrachloride        | 250    | U         | 250  | 88  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Chlorobenzene               | 250    | U         | 250  | 80  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Chloroethane                | 250    | U         | 250  | 100 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Chloroform                  | 250    | U         | 250  | 78  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Chloromethane               | 250    | U         | 250  | 110 | ug/L |   |          | 11/01/16 16:34 | 250     |
| cis-1,2-Dichloroethene      | 1900   |           | 250  | 75  | ug/L |   |          | 11/01/16 16:34 | 250     |
| cis-1,3-Dichloropropene     | 250    | U         | 250  | 65  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Dichlorobromomethane        | 250    | U         | 250  | 75  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Ethylbenzene                | 250    | U         | 250  | 65  | ug/L |   |          | 11/01/16 16:34 | 250     |
| 2-Butanone (MEK)            | 2500   | U         | 2500 | 260 | ug/L |   |          | 11/01/16 16:34 | 250     |
| 4-Methyl-2-pentanone (MIBK) | 2500   | U         | 2500 | 180 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Methylene Chloride          | 250    | U         | 250  | 130 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Styrene                     | 250    | U         | 250  | 58  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Tetrachloroethene           | 250    | U         | 250  | 75  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Toluene                     | 250    | U         | 250  | 58  | ug/L |   |          | 11/01/16 16:34 | 250     |
| trans-1,2-Dichloroethene    | 250    | U         | 250  | 73  | ug/L |   |          | 11/01/16 16:34 | 250     |
| trans-1,3-Dichloropropene   | 250    | U         | 250  | 78  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Trichloroethene             | 4900   |           | 250  | 83  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Vinyl chloride              | 250    | U         | 250  | 110 | ug/L |   |          | 11/01/16 16:34 | 250     |
| Xylenes, Total              | 500    | U         | 500  | 60  | ug/L |   |          | 11/01/16 16:34 | 250     |
| Chlorodibromomethane        | 250    | U         | 250  | 63  | ug/L |   |          | 11/01/16 16:34 | 250     |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 63 - 132 |          | 11/01/16 16:34 | 250     |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 73 - 120 |          | 11/01/16 16:34 | 250     |
| Toluene-d8 (Surr)            | 87        |           | 73 - 124 |          | 11/01/16 16:34 | 250     |
| Dibromofluoromethane (Surr)  | 96        |           | 80 - 120 |          | 11/01/16 16:34 | 250     |

TestAmerica Canton

# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

**Matrix: Water**

**Prep Type: Total/NA**

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|--------------------|------------------------------------------------|-----------------|-----------------|------------------|
|                  |                    | 12DCE<br>(63-132)                              | BFB<br>(73-120) | TOL<br>(73-124) | DBFM<br>(80-120) |
| 240-71297-1      | TB-102516-TW-004   | 93                                             | 86              | 86              | 98               |
| 240-71297-2      | GW-102516-TW-035   | 96                                             | 86              | 86              | 100              |
| 240-71297-3      | GW-102516-TW-036   | 95                                             | 85              | 86              | 97               |
| 240-71297-4      | GW-102516-TW-037   | 95                                             | 87              | 85              | 99               |
| 240-71297-5      | GW-102516-TW-038   | 96                                             | 87              | 85              | 100              |
| 240-71297-6      | EB-102516-TW-003   | 95                                             | 87              | 86              | 100              |
| 240-71297-7      | GW-102516-TW-039   | 95                                             | 84              | 84              | 97               |
| 240-71297-8      | GW-102516-TW-040   | 93                                             | 86              | 87              | 97               |
| 240-71297-9      | GW-102516-TW-041   | 95                                             | 87              | 87              | 96               |
| 240-71297-9 MS   | GW-102516-TW-041   | 89                                             | 88              | 88              | 97               |
| 240-71297-9 MSD  | GW-102516-TW-041   | 94                                             | 90              | 89              | 99               |
| LCS 240-253839/5 | Lab Control Sample | 91                                             | 87              | 88              | 96               |
| MB 240-253839/8  | Method Blank       | 93                                             | 84              | 83              | 96               |

## Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Lab Sample ID: MB 240-253839/8

Matrix: Water

Analysis Batch: 253839

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-Trichloroethane       | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,1,2,2-Tetrachloroethane   | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,1,2-Trichloroethane       | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,1-Dichloroethane          | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,1-Dichloroethene          | 1.0       | U            | 1.0 | 0.27 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,2-Dichloroethane          | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 1,2-Dichloropropane         | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 2-Hexanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 11/01/16 12:27 | 1       |
| Acetone                     | 10        | U            | 10  | 1.8  | ug/L |   |          | 11/01/16 12:27 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.28 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.34 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.35 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.32 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 11/01/16 12:27 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 12:27 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Dichlorobromomethane        | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Ethylbenzene                | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 11/01/16 12:27 | 1       |
| 2-Butanone (MEK)            | 10        | U            | 10  | 1.0  | ug/L |   |          | 11/01/16 12:27 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 10        | U            | 10  | 0.71 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Methylene Chloride          | 1.0       | U            | 1.0 | 0.53 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Styrene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Tetrachloroethene           | 1.0       | U            | 1.0 | 0.30 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Toluene                     | 1.0       | U            | 1.0 | 0.23 | ug/L |   |          | 11/01/16 12:27 | 1       |
| trans-1,2-Dichloroethene    | 1.0       | U            | 1.0 | 0.29 | ug/L |   |          | 11/01/16 12:27 | 1       |
| trans-1,3-Dichloropropene   | 1.0       | U            | 1.0 | 0.31 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Trichloroethene             | 1.0       | U            | 1.0 | 0.33 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Vinyl chloride              | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Xylenes, Total              | 2.0       | U            | 2.0 | 0.24 | ug/L |   |          | 11/01/16 12:27 | 1       |
| Chlorodibromomethane        | 1.0       | U            | 1.0 | 0.25 | ug/L |   |          | 11/01/16 12:27 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93           |              | 63 - 132 |          | 11/01/16 12:27 | 1       |
| 4-Bromofluorobenzene (Surr)  | 84           |              | 73 - 120 |          | 11/01/16 12:27 | 1       |
| Toluene-d8 (Surr)            | 83           |              | 73 - 124 |          | 11/01/16 12:27 | 1       |
| Dibromofluoromethane (Surr)  | 96           |              | 80 - 120 |          | 11/01/16 12:27 | 1       |

Lab Sample ID: LCS 240-253839/5

Matrix: Water

Analysis Batch: 253839

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-Trichloroethane     | 20.0        | 18.6       |               | ug/L |   | 93   | 79 - 133     |
| 1,1,2,2-Tetrachloroethane | 20.0        | 19.1       |               | ug/L |   | 96   | 61 - 130     |

TestAmerica Canton

# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Lab Sample ID: LCS 240-253839/5

Matrix: Water

Analysis Batch: 253839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 20.0        | 19.1       |               | ug/L |   | 96   | 80 - 120     |
| 1,1-Dichloroethane          | 20.0        | 18.1       |               | ug/L |   | 91   | 77 - 121     |
| 1,1-Dichloroethene          | 20.0        | 21.4       |               | ug/L |   | 107  | 70 - 141     |
| 1,2-Dichloroethane          | 20.0        | 17.6       |               | ug/L |   | 88   | 76 - 130     |
| 1,2-Dichloropropane         | 20.0        | 18.0       |               | ug/L |   | 90   | 79 - 121     |
| 2-Hexanone                  | 40.0        | 39.6       |               | ug/L |   | 99   | 56 - 124     |
| Acetone                     | 40.0        | 41.8       |               | ug/L |   | 105  | 46 - 120     |
| Benzene                     | 20.0        | 18.5       |               | ug/L |   | 93   | 80 - 120     |
| Bromoform                   | 20.0        | 22.0       |               | ug/L |   | 110  | 52 - 157     |
| Bromomethane                | 20.0        | 20.0       |               | ug/L |   | 100  | 24 - 160     |
| Carbon disulfide            | 20.0        | 19.0       |               | ug/L |   | 95   | 58 - 160     |
| Carbon tetrachloride        | 20.0        | 20.2       |               | ug/L |   | 101  | 69 - 149     |
| Chlorobenzene               | 20.0        | 16.9       |               | ug/L |   | 85   | 80 - 120     |
| Chloroethane                | 20.0        | 20.9       |               | ug/L |   | 105  | 24 - 147     |
| Chloroform                  | 20.0        | 18.3       |               | ug/L |   | 92   | 80 - 120     |
| Chloromethane               | 20.0        | 19.6       |               | ug/L |   | 98   | 50 - 135     |
| cis-1,2-Dichloroethene      | 20.0        | 19.1       |               | ug/L |   | 95   | 80 - 120     |
| cis-1,3-Dichloropropene     | 20.0        | 18.1       |               | ug/L |   | 90   | 75 - 120     |
| Dichlorobromomethane        | 20.0        | 17.8       |               | ug/L |   | 89   | 76 - 125     |
| Ethylbenzene                | 20.0        | 17.4       |               | ug/L |   | 87   | 80 - 120     |
| m-Xylene & p-Xylene         | 20.0        | 17.4       |               | ug/L |   | 87   | 80 - 120     |
| 2-Butanone (MEK)            | 40.0        | 40.4       |               | ug/L |   | 101  | 54 - 122     |
| 4-Methyl-2-pentanone (MIBK) | 40.0        | 40.5       |               | ug/L |   | 101  | 60 - 131     |
| Methylene Chloride          | 20.0        | 18.1       |               | ug/L |   | 90   | 68 - 136     |
| o-Xylene                    | 20.0        | 17.2       |               | ug/L |   | 86   | 80 - 120     |
| Styrene                     | 20.0        | 17.6       |               | ug/L |   | 88   | 80 - 120     |
| Tetrachloroethene           | 20.0        | 19.4       |               | ug/L |   | 97   | 80 - 123     |
| Toluene                     | 20.0        | 17.4       |               | ug/L |   | 87   | 80 - 121     |
| trans-1,2-Dichloroethene    | 20.0        | 19.9       |               | ug/L |   | 99   | 80 - 123     |
| trans-1,3-Dichloropropene   | 20.0        | 16.5       |               | ug/L |   | 82   | 65 - 120     |
| Trichloroethene             | 20.0        | 20.3       |               | ug/L |   | 101  | 80 - 122     |
| Vinyl chloride              | 20.0        | 20.9       |               | ug/L |   | 104  | 60 - 129     |
| Xylenes, Total              | 40.0        | 34.6       |               | ug/L |   | 87   | 80 - 120     |
| Chlorodibromomethane        | 20.0        | 19.3       |               | ug/L |   | 96   | 68 - 131     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 91            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 87            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 88            |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 96            |               | 80 - 120 |

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253839

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 330           |                  | 5000        | 4960      |              | ug/L |   | 93   | 55 - 150     |
| 1,1,2,2-Tetrachloroethane | 250           | U                | 5000        | 4650      |              | ug/L |   | 93   | 48 - 134     |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Lab Sample ID: 240-71297-9 MS

Matrix: Water

Analysis Batch: 253839

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1,2-Trichloroethane       | 250           | U                | 5000        | 4820      |              | ug/L |   | 96   | 65 - 130     |
| 1,1-Dichloroethane          | 110           | J                | 5000        | 4700      |              | ug/L |   | 92   | 57 - 135     |
| 1,1-Dichloroethene          | 250           | U                | 5000        | 5150      |              | ug/L |   | 103  | 50 - 156     |
| 1,2-Dichloroethane          | 250           | U                | 5000        | 4560      |              | ug/L |   | 91   | 62 - 137     |
| 1,2-Dichloropropane         | 250           | U                | 5000        | 4600      |              | ug/L |   | 92   | 66 - 130     |
| 2-Hexanone                  | 2500          | U                | 10000       | 9670      |              | ug/L |   | 97   | 41 - 135     |
| Acetone                     | 2500          | U                | 10000       | 9860      |              | ug/L |   | 99   | 28 - 120     |
| Benzene                     | 250           | U                | 5000        | 4710      |              | ug/L |   | 94   | 67 - 126     |
| Bromoform                   | 250           | U                | 5000        | 5360      |              | ug/L |   | 107  | 40 - 149     |
| Bromomethane                | 250           | U                | 5000        | 4890      |              | ug/L |   | 98   | 10 - 169     |
| Carbon disulfide            | 250           | U                | 5000        | 4590      |              | ug/L |   | 92   | 43 - 172     |
| Carbon tetrachloride        | 250           | U                | 5000        | 4770      |              | ug/L |   | 95   | 51 - 154     |
| Chlorobenzene               | 250           | U                | 5000        | 4240      |              | ug/L |   | 85   | 58 - 128     |
| Chloroethane                | 250           | U                | 5000        | 4930      |              | ug/L |   | 99   | 10 - 162     |
| Chloroform                  | 250           | U                | 5000        | 4770      |              | ug/L |   | 95   | 67 - 133     |
| Chloromethane               | 250           | U                | 5000        | 4530      |              | ug/L |   | 91   | 30 - 143     |
| cis-1,2-Dichloroethene      | 1900          |                  | 5000        | 7240      |              | ug/L |   | 107  | 64 - 134     |
| cis-1,3-Dichloropropene     | 250           | U                | 5000        | 4330      |              | ug/L |   | 87   | 58 - 120     |
| Dichlorobromomethane        | 250           | U                | 5000        | 4610      |              | ug/L |   | 92   | 64 - 127     |
| Ethylbenzene                | 250           | U                | 5000        | 4330      |              | ug/L |   | 87   | 66 - 123     |
| m-Xylene & p-Xylene         | 500           | U                | 5000        | 4410      |              | ug/L |   | 88   | 58 - 127     |
| 2-Butanone (MEK)            | 2500          | U                | 10000       | 9610      |              | ug/L |   | 96   | 38 - 123     |
| 4-Methyl-2-pentanone (MIBK) | 2500          | U                | 10000       | 9790      |              | ug/L |   | 98   | 43 - 143     |
| Methylene Chloride          | 250           | U                | 5000        | 4770      |              | ug/L |   | 95   | 48 - 138     |
| o-Xylene                    | 250           | U                | 5000        | 4420      |              | ug/L |   | 88   | 61 - 126     |
| Styrene                     | 250           | U                | 5000        | 4550      |              | ug/L |   | 91   | 62 - 131     |
| Tetrachloroethene           | 250           | U                | 5000        | 4760      |              | ug/L |   | 95   | 54 - 138     |
| Toluene                     | 250           | U                | 5000        | 4370      |              | ug/L |   | 87   | 63 - 130     |
| trans-1,2-Dichloroethene    | 250           | U                | 5000        | 5000      |              | ug/L |   | 100  | 70 - 137     |
| trans-1,3-Dichloropropene   | 250           | U                | 5000        | 4070      |              | ug/L |   | 81   | 48 - 120     |
| Trichloroethene             | 4900          |                  | 5000        | 10800     |              | ug/L |   | 117  | 58 - 139     |
| Vinyl chloride              | 250           | U                | 5000        | 4810      |              | ug/L |   | 96   | 38 - 147     |
| Xylenes, Total              | 500           | U                | 10000       | 8830      |              | ug/L |   | 88   | 60 - 126     |
| Chlorodibromomethane        | 250           | U                | 5000        | 4790      |              | ug/L |   | 96   | 56 - 132     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 88           |              | 73 - 120 |
| Toluene-d8 (Surr)            | 88           |              | 73 - 124 |
| Dibromofluoromethane (Surr)  | 97           |              | 80 - 120 |

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253839

Client Sample ID: GW-102516-TW-041

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-Trichloroethane     | 330           |                  | 5000        | 5210       |               | ug/L |   | 98   | 55 - 150     | 5   | 35        |
| 1,1,2,2-Tetrachloroethane | 250           | U                | 5000        | 4960       |               | ug/L |   | 99   | 48 - 134     | 6   | 35        |

TestAmerica Canton



# QC Sample Results

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

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

Lab Sample ID: 240-71297-9 MSD

Matrix: Water

Analysis Batch: 253839

Client Sample ID: GW-102516-TW-041

Prep Type: Total/NA

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1,2-Trichloroethane       | 250           | U                | 5000        | 5030       |               | ug/L |   | 101  | 65 - 130     | 4   | 35        |
| 1,1-Dichloroethane          | 110           | J                | 5000        | 4940       |               | ug/L |   | 97   | 57 - 135     | 5   | 35        |
| 1,1-Dichloroethene          | 250           | U                | 5000        | 5500       |               | ug/L |   | 110  | 50 - 156     | 6   | 35        |
| 1,2-Dichloroethane          | 250           | U                | 5000        | 4620       |               | ug/L |   | 92   | 62 - 137     | 1   | 35        |
| 1,2-Dichloropropane         | 250           | U                | 5000        | 4740       |               | ug/L |   | 95   | 66 - 130     | 3   | 35        |
| 2-Hexanone                  | 2500          | U                | 10000       | 10000      |               | ug/L |   | 100  | 41 - 135     | 4   | 35        |
| Acetone                     | 2500          | U                | 10000       | 10300      |               | ug/L |   | 103  | 28 - 120     | 4   | 35        |
| Benzene                     | 250           | U                | 5000        | 4950       |               | ug/L |   | 99   | 67 - 126     | 5   | 31        |
| Bromoform                   | 250           | U                | 5000        | 5520       |               | ug/L |   | 110  | 40 - 149     | 3   | 35        |
| Bromomethane                | 250           | U                | 5000        | 5070       |               | ug/L |   | 101  | 10 - 169     | 4   | 35        |
| Carbon disulfide            | 250           | U                | 5000        | 4870       |               | ug/L |   | 97   | 43 - 172     | 6   | 35        |
| Carbon tetrachloride        | 250           | U                | 5000        | 5180       |               | ug/L |   | 104  | 51 - 154     | 8   | 35        |
| Chlorobenzene               | 250           | U                | 5000        | 4340       |               | ug/L |   | 87   | 58 - 128     | 2   | 35        |
| Chloroethane                | 250           | U                | 5000        | 5230       |               | ug/L |   | 105  | 10 - 162     | 6   | 35        |
| Chloroform                  | 250           | U                | 5000        | 4990       |               | ug/L |   | 100  | 67 - 133     | 4   | 35        |
| Chloromethane               | 250           | U                | 5000        | 4850       |               | ug/L |   | 97   | 30 - 143     | 7   | 35        |
| cis-1,2-Dichloroethene      | 1900          |                  | 5000        | 7420       |               | ug/L |   | 111  | 64 - 134     | 2   | 35        |
| cis-1,3-Dichloropropene     | 250           | U                | 5000        | 4520       |               | ug/L |   | 90   | 58 - 120     | 4   | 35        |
| Dichlorobromomethane        | 250           | U                | 5000        | 4840       |               | ug/L |   | 97   | 64 - 127     | 5   | 35        |
| Ethylbenzene                | 250           | U                | 5000        | 4450       |               | ug/L |   | 89   | 66 - 123     | 3   | 34        |
| m-Xylene & p-Xylene         | 500           | U                | 5000        | 4460       |               | ug/L |   | 89   | 58 - 127     | 1   | 35        |
| 2-Butanone (MEK)            | 2500          | U                | 10000       | 9910       |               | ug/L |   | 99   | 38 - 123     | 3   | 35        |
| 4-Methyl-2-pentanone (MIBK) | 2500          | U                | 10000       | 10200      |               | ug/L |   | 102  | 43 - 143     | 4   | 35        |
| Methylene Chloride          | 250           | U                | 5000        | 4870       |               | ug/L |   | 97   | 48 - 138     | 2   | 35        |
| o-Xylene                    | 250           | U                | 5000        | 4540       |               | ug/L |   | 91   | 61 - 126     | 3   | 35        |
| Styrene                     | 250           | U                | 5000        | 4670       |               | ug/L |   | 93   | 62 - 131     | 3   | 35        |
| Tetrachloroethene           | 250           | U                | 5000        | 4820       |               | ug/L |   | 96   | 54 - 138     | 1   | 35        |
| Toluene                     | 250           | U                | 5000        | 4460       |               | ug/L |   | 89   | 63 - 130     | 2   | 33        |
| trans-1,2-Dichloroethene    | 250           | U                | 5000        | 5290       |               | ug/L |   | 106  | 70 - 137     | 6   | 25        |
| trans-1,3-Dichloropropene   | 250           | U                | 5000        | 4050       |               | ug/L |   | 81   | 48 - 120     | 0   | 35        |
| Trichloroethene             | 4900          |                  | 5000        | 10800      |               | ug/L |   | 117  | 58 - 139     | 0   | 35        |
| Vinyl chloride              | 250           | U                | 5000        | 5110       |               | ug/L |   | 102  | 38 - 147     | 6   | 35        |
| Xylenes, Total              | 500           | U                | 10000       | 9000       |               | ug/L |   | 90   | 60 - 126     | 2   | 35        |
| Chlorodibromomethane        | 250           | U                | 5000        | 4920       |               | ug/L |   | 98   | 56 - 132     | 3   | 35        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94            |               | 63 - 132 |
| 4-Bromofluorobenzene (Surr)  | 90            |               | 73 - 120 |
| Toluene-d8 (Surr)            | 89            |               | 73 - 124 |
| Dibromofluoromethane (Surr)  | 99            |               | 80 - 120 |

TestAmerica Canton

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

### GC/MS VOA

#### Analysis Batch: 253839

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-71297-1      | TB-102516-TW-004   | Total/NA  | Water  | 8260B  |            |
| 240-71297-2      | GW-102516-TW-035   | Total/NA  | Water  | 8260B  |            |
| 240-71297-3      | GW-102516-TW-036   | Total/NA  | Water  | 8260B  |            |
| 240-71297-4      | GW-102516-TW-037   | Total/NA  | Water  | 8260B  |            |
| 240-71297-5      | GW-102516-TW-038   | Total/NA  | Water  | 8260B  |            |
| 240-71297-6      | EB-102516-TW-003   | Total/NA  | Water  | 8260B  |            |
| 240-71297-7      | GW-102516-TW-039   | Total/NA  | Water  | 8260B  |            |
| 240-71297-8      | GW-102516-TW-040   | Total/NA  | Water  | 8260B  |            |
| 240-71297-9      | GW-102516-TW-041   | Total/NA  | Water  | 8260B  |            |
| MB 240-253839/8  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 240-253839/5 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| 240-71297-9 MS   | GW-102516-TW-041   | Total/NA  | Water  | 8260B  |            |
| 240-71297-9 MSD  | GW-102516-TW-041   | Total/NA  | Water  | 8260B  |            |

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

**Client Sample ID: TB-102516-TW-004**

**Date Collected: 10/25/16 00:00**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253839       | 11/01/16 13:29       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-035**

**Date Collected: 10/25/16 09:20**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 5               | 253839       | 11/01/16 13:52       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-036**

**Date Collected: 10/25/16 10:40**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 200             | 253839       | 11/01/16 14:15       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-037**

**Date Collected: 10/25/16 12:50**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253839       | 11/01/16 14:39       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-038**

**Date Collected: 10/25/16 14:10**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 50              | 253839       | 11/01/16 15:02       | HMB     | TAL CAN |

**Client Sample ID: EB-102516-TW-003**

**Date Collected: 10/25/16 17:05**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253839       | 11/01/16 15:25       | HMB     | TAL CAN |

TestAmerica Canton

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

**Client Sample ID: GW-102516-TW-039**

**Date Collected: 10/25/16 15:55**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253839       | 11/01/16 15:49       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-040**

**Date Collected: 10/25/16 15:55**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 253839       | 11/01/16 16:11       | HMB     | TAL CAN |

**Client Sample ID: GW-102516-TW-041**

**Date Collected: 10/25/16 18:40**

**Date Received: 10/26/16 09:25**

**Lab Sample ID: 240-71297-9**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 250             | 253839       | 11/01/16 16:34       | HMB     | TAL CAN |

## Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Certification Summary

Client: GHD Services Inc.  
Project/Site: 17302-T07, RACER Delphi Anderson

TestAmerica Job ID: 240-71297-2

## Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority             | Program       | EPA Region | Certification ID | Expiration Date |
|-----------------------|---------------|------------|------------------|-----------------|
| California            | NELAP         | 9          | 01144CA          | 06-30-14 *      |
| California            | State Program | 9          | 2927             | 04-30-17        |
| Connecticut           | State Program | 1          | PH-0590          | 12-31-17        |
| Florida               | NELAP         | 4          | E87225           | 06-30-17        |
| Illinois              | NELAP         | 5          | 200004           | 07-31-17        |
| Kansas                | NELAP         | 7          | E-10336          | 01-31-17        |
| Kentucky (UST)        | State Program | 4          | 58               | 02-23-17        |
| Kentucky (VW)         | State Program | 4          | 98016            | 12-31-16 *      |
| Minnesota             | NELAP         | 5          | 039-999-348      | 12-31-16 *      |
| Minnesota (Petrofund) | State Program | 1          | 3506             | 07-31-17        |
| Nevada                | State Program | 9          | OH-000482008A    | 07-31-17        |
| New Jersey            | NELAP         | 2          | OH001            | 06-30-17        |
| New York              | NELAP         | 2          | 10975            | 03-31-17        |
| Ohio VAP              | State Program | 5          | CL0024           | 09-14-17        |
| Oregon                | NELAP         | 10         | 4062             | 02-23-17        |
| Pennsylvania          | NELAP         | 3          | 68-00340         | 08-31-17        |
| Texas                 | NELAP         | 6          | T104704517-15-5  | 08-31-17        |
| USDA                  | Federal       |            | P330-13-00319    | 11-26-16 *      |
| Virginia              | NELAP         | 3          | 460175           | 09-14-17        |
| Washington            | State Program | 10         | C971             | 01-12-17        |
| West Virginia DEP     | State Program | 3          | 210              | 12-31-16 *      |
| Wisconsin             | State Program | 5          | 999518190        | 08-31-17        |

\* Certification renewal pending - certification considered valid.

TestAmerica Canton

[illegible]

Phone (330) 497-9396 Fax (330) 497-0772

## Chain of Custody Record



# THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Client Information                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |
| Client Contact:<br>Ms. Deborah Andrasko<br>Company: GHD Services Inc.<br>Address: 2055 Niagara Falls Blvd., Suite 3<br>City: Niagara Falls<br>State, Zip: NY, 14304<br>Phone:                                                                                                                                                 |  |  |  |  |  |
| Email: deb.andrasko@ghd.com<br>Project Name: 17302, RACER Delphi Anderson<br>Site: Racer Anderson                                                                                                                                                                                                                             |  |  |  |  |  |
| Due Date Requested:<br>TAT Requested (days):<br>PO #: 4057448<br>WO #: 17302<br>Project #: 24007143<br>SSOW#: 017302-107                                                                                                                                                                                                      |  |  |  |  |  |
| Sample Identification<br><u>PW-102515-TW-001</u>                                                                                                                                                                                                                                                                              |  |  |  |  |  |
| Sample Date: 25-Oct-16<br>Sample Time: 19:40<br>Sample Type (C=Comp, G=grab): G<br>Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, AsAir): Water                                                                                                                                                                            |  |  |  |  |  |
| Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A                                                                                                                                                                                                                                                       |  |  |  |  |  |
| Performance MS/MSD (Yes or No) <input checked="" type="checkbox"/> A                                                                                                                                                                                                                                                          |  |  |  |  |  |
| 8260B - VOCs <input checked="" type="checkbox"/> A                                                                                                                                                                                                                                                                            |  |  |  |  |  |
| 8260B - VOCs <input checked="" type="checkbox"/> A                                                                                                                                                                                                                                                                            |  |  |  |  |  |
| 9034 Calc - Sulfide CB N                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |
| 2320B - Alkalinity, Carb and Bicarb D                                                                                                                                                                                                                                                                                         |  |  |  |  |  |
| 2340C - Hardness as calcium carbonate S                                                                                                                                                                                                                                                                                       |  |  |  |  |  |
| 9060 Diss - DOC S                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |
| RSK_175 - Dissolved Gases A                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
| 9060 TOG S                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |
| 300.0-28D - Chloride, Sulfate, Nitrate, Nitrite N                                                                                                                                                                                                                                                                             |  |  |  |  |  |
| 6010B - Manganese D                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |
| Total Number of containers: 3                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |
| Special Instructions/Note:                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |
| Preservation Codes:<br>A - HCL<br>M - Hexane<br>N - None<br>O - AshNaO2<br>P - Na2OAS<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>L - EDTA<br>Z - other (specify)<br>Other:                                                                                 |  |  |  |  |  |
| Job #: 017302-107-GHDK                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
| Page: 1 of 1                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |
| COC No: 240-37918-16623.7                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
| Carrier Tracking No(s): Fedex                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |
| Lab PM: Heckler, Denise D<br>E-Mail: denise.heckler@testamericainc.com                                                                                                                                                                                                                                                        |  |  |  |  |  |
| Sampler: Tyler Withman<br>Phone: 905-328-0632                                                                                                                                                                                                                                                                                 |  |  |  |  |  |
| Analysis Requested                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months                                                                                                         |  |  |  |  |  |
| Special Instructions/QC Requirements:                                                                                                                                                                                                                                                                                         |  |  |  |  |  |
| Time: Method of Shipment: Fedex                                                                                                                                                                                                                                                                                               |  |  |  |  |  |
| Received by: [Signature] Company: GHDK<br>Date/Time: 25/Oct/16 20:30<br>Relinquished by: Tyler Withman<br>Relinquished by: [Signature] Company: GHDK<br>Date/Time: 25/Oct/16 20:30<br>Relinquished by: [Signature] Company: GHDK<br>Date/Time: 25/Oct/16 20:30<br>Custody Seal Intact: Yes<br>Custody Seal No.: 102515 TW 001 |  |  |  |  |  |



TestAmerica Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

1.6/02.0

## Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

|                                                        |  |                                                |  |                                             |  |                                           |  |                                                          |  |
|--------------------------------------------------------|--|------------------------------------------------|--|---------------------------------------------|--|-------------------------------------------|--|----------------------------------------------------------|--|
| <b>Client Information</b>                              |  | Sampler: Tyler W. Withmiller                   |  | Lab PM: Heckler, Denise D                   |  | Carrier Tracking No(s): FedEx             |  | COC No: 240-37918-16623.8                                |  |
| Client Contact: Ms. Deborah Andrasko                   |  | Phone: 905-328-0630                            |  | E-Mail: denise.heckler@testamericainc.com   |  | FedEx                                     |  | Page: 8 of 101                                           |  |
| Company: GHD Services Inc.                             |  |                                                |  |                                             |  |                                           |  | Job #: 017302-107-64D16                                  |  |
| Address: 2055 Niagara Falls Blvd., Suite 3             |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| City: Niagara Falls                                    |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| State, Zip: NY, 14304                                  |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| Phone: 4057448                                         |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| Email: deb.andrasko@ghd.com                            |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| Project Name: 17302, RACER Delphi Anderson             |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| Site: Racer Anderson                                   |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| SSOW#: 017302-107                                      |  |                                                |  |                                             |  |                                           |  |                                                          |  |
| Due Date Requested:                                    |  | TAT Requested (days): 2 weeks (Std)            |  | Field Filtered Sample (Yes or No)           |  | Perform MS/MSD (Yes or No)                |  | Analysis Requested                                       |  |
| Sample Date                                            |  | Sample Time                                    |  | Sample Type (C=comp, G=grab)                |  | Preservation Code:                        |  | Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, As=Air) |  |
| 25-Oct-16 18:40                                        |  | G                                              |  | Water                                       |  | A                                         |  | 8260B - VOCs                                             |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 8260B - VOCs                                             |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 9034 Calc - Sulfide                                      |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 2320B - Alkalinity, Carb and Bicarb                      |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 2340C - Hardness as calcium carbonate                    |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 9060 Diss - DOC                                          |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | RSK 175 - Dissolved Gases                                |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 9060 TOC                                                 |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 300.0 28D - Chloride, Sulfate, Nitrate, Nitrite          |  |
|                                                        |  |                                                |  | Water                                       |  |                                           |  | 6010B - Manganese                                        |  |
| GW-102516-TW-041                                       |  |                                                |  |                                             |  |                                           |  | Total Number of Containers                               |  |
|                                                        |  |                                                |  |                                             |  |                                           |  | Special Instructions/Note:                               |  |
|                                                        |  |                                                |  |                                             |  |                                           |  | X field filtered                                         |  |
|                                                        |  |                                                |  |                                             |  |                                           |  | 3 total                                                  |  |
| <b>Possible Hazard Identification</b>                  |  | <input checked="" type="checkbox"/> Non-Hazard |  | <input type="checkbox"/> Flammable          |  | <input type="checkbox"/> Skin Irritant    |  | <input type="checkbox"/> Poison B                        |  |
| Deliverable Requested: I, II, III, IV, Other (specify) |  | <input type="checkbox"/> Unknown               |  | <input type="checkbox"/> Radiological       |  | <input type="checkbox"/> Return To Client |  | <input type="checkbox"/> Disposal By Lab                 |  |
| Empty Kit Relinquished by:                             |  | Date:                                          |  | Time:                                       |  | Special Instructions/QC Requirements:     |  | Archive For Months                                       |  |
| Relinquished by: Tyler W. Withmiller                   |  | Date/Time: 25-Oct-16 20:30                     |  | Company: GHD                                |  | Relinquished by:                          |  | Date/Time:                                               |  |
| Relinquished by:                                       |  | Date/Time:                                     |  | Company:                                    |  | Relinquished by:                          |  | Date/Time:                                               |  |
| Custody Seals Intact: Δ Yes Δ No                       |  | Custody Seal No.:                              |  | Cooler Temperature(s) °C and Other Remarks: |  | Method of Shipment: FedEx                 |  | Date/Time: 10/26/16 9:25 AM                              |  |







Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u>  | <u>Container Type</u>               | <u>Container<br/>pH</u> | <u>Preservative<br/>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|----------------|-------------------------------------|-------------------------|-------------------------------------|--------------|
| GW-102516-TW-038        | 240-71297-N-5  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-038        | 240-71297-P-5  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-038        | 240-71297-Q-5  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-N-7  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-P-7  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-039        | 240-71297-Q-7  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-N-8  | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-P-8  | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-040        | 240-71297-Q-8  | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AM-9 | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AN-9 | Plastic 250ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AQ-9 | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AR-9 | Plastic 500ml - with Nitric Acid    | <2                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AS-9 | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |
| GW-102516-TW-041        | 240-71297-AT-9 | Plastic 500ml - with Zn Acetate and | >9                      | _____                               | _____        |

## Appendix C

# Data Quality Assessment and Validation Reports

## Appendix C.1

### April 2016 Data Validation Report



## Memorandum

|       |                                                                                                                                                                     |           |              |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|
| To:   | Rob Catallo                                                                                                                                                         | Ref. No.: | 017302-T07   |
| From: | Deb Andrasko/mkd/57-NF                                                                                                                                              | Date:     | May 25, 2016 |
| Re:   | <b>Analytical Results and Reduced Validation<br/>Site-Wide Groundwater Monitoring<br/>RACER Trust – MLK Boulevard Facility<br/>Anderson, Indiana<br/>April 2016</b> |           |              |

### 1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Site-Wide Groundwater Monitoring at the Anderson, Indiana Site during April 2016. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) -equivalent raw data deliverables were provided by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples; raw data was not reviewed or assessed.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

### 2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is presented in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect with the exception of methylene chloride present at low concentrations. Associated sample results with concentrations similar to the blanks were qualified as estimated due to potential laboratory contamination (see Table 4).

### 4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the method employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) analysis were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the associated criteria.

### 5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. All LCS recoveries were within laboratory control limits, demonstrating acceptable analytical accuracy, with the exception of one high bromomethane recovery. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

### 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the distillation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used



to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the laboratory control limits with the exception of three compounds with high RPDs. The associated sample results were non-detect and would not be impacted by the implied variability.

## **7. Field QA/QC Samples**

The field QA/QC consisted of three trip blank samples, three rinse blank samples and three field duplicate sample sets.

### **7.1 Trip Blank Sample Analysis**

To evaluate contamination from sample collection, transportation, storage, and analytical activities, trip blanks were submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

### **7.2 Rinse Blank Sample Analysis**

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of acetone and toluene present at low concentration in one of the blanks. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.

### **7.3 Field Duplicate Sample Analysis**

To assess the analytical and sampling protocol precision, four field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

## **8. Analyte Reporting**

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the PQL in Table 2.

## **9. Conclusion**

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.



Table 1

**Sample Collection and Analysis Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Sample Identification | Location      | Matrix | Collection Date<br>(mm/dd/yyyy) | Collection<br>Time<br>(hr:min) | Analysis  | Comments                            |
|-----------------------|---------------|--------|---------------------------------|--------------------------------|-----------|-------------------------------------|
|                       |               |        |                                 |                                | Volatiles |                                     |
| GW-041916-SM-001      | MW 14         | Water  | 04/19/2016                      | 08:07                          | X         |                                     |
| GW-041916-SM-002      | MW 79         | Water  | 04/19/2016                      | 08:48                          | X         |                                     |
| GW-041916-SM-003      | MW 68         | Water  | 04/19/2016                      | 09:33                          | X         |                                     |
| GW-041916-SM-004      | MW 40         | Water  | 04/19/2016                      | 10:17                          | X         |                                     |
| GW-041916-SM-005      | MW 42         | Water  | 04/19/2016                      | 10:53                          | X         |                                     |
| GW-041916-SM-006      | MW 41         | Water  | 04/19/2016                      | 11:27                          | X         |                                     |
| GW-041916-SM-007      | MW 28         | Water  | 04/19/2016                      | 12:13                          | X         |                                     |
| GW-042016-SM-008      | MW 08         | Water  | 04/20/2016                      | 08:02                          | X         |                                     |
| GW-042016-SM-009      | MW 08         | Water  | 04/20/2016                      | 08:05                          | X         | Field duplicate of GW-042016-SM-008 |
| GW 042016-SM-010      | MW 31R        | Water  | 04/20/2016                      | 08:47                          | X         | MS/MSD                              |
| GW 042016-SM-011      | MW 3          | Water  | 04/20/2016                      | 09:23                          | X         |                                     |
| GW 042016-SM-012      | MW 51         | Water  | 04/20/2016                      | 10:07                          | X         |                                     |
| GW 042016-SM-013      | MW 66         | Water  | 04/20/2016                      | 11:07                          | X         |                                     |
| GW 042016-SM-014      | MW 89-11      | Water  | 04/20/2016                      | 12:37                          | X         |                                     |
| GW 042016-SM-015      | MW 89-11      | Water  | 04/20/2016                      | 12:40                          | X         | Field duplicate of GW 042016-SM-014 |
| GW 042116-SM-016      | MW 12         | Water  | 04/21/2016                      | 08:13                          | X         | MS/MSD                              |
| GW 042116-SM-018      | MW 49         | Water  | 04/21/2016                      | 09:47                          | X         |                                     |
| GW-042216-SM-022      | MW-4          | Water  | 04/22/2016                      | 08:57                          | X         | MS/MSD                              |
| GW-042216-SM-023      | MW 85         | Water  | 04/22/2016                      | 09:47                          | X         |                                     |
| GW-042216-SM-024      | MW 85         | Water  | 04/22/2016                      | 09:50                          | X         | Field duplicate of GW-042216-SM-023 |
| SW-042216-SM-001      | Pond (North)  | Water  | 04/22/2016                      | 09:20                          | X         |                                     |
| SW-042216-SM-002      | Pond (Intake) | Water  | 04/22/2016                      | 09:23                          | X         |                                     |
| RB-042016-SM-001      | --            | Water  | 04/20/2016                      | 08:15                          | X         | Equipment Blank                     |
| RB-042016-SM-002      | --            | Water  | 04/20/2016                      | 12:50                          | X         | Equipment Blank                     |
| RB-042216-SM-003      | --            | Water  | 04/22/2016                      | 09:00                          | X         | Equipment Blank                     |
| TB-042116-SM-001      | --            | Water  | 04/21/2016                      | 13:00                          | X         | Trip Blank                          |
| TB-042216-SM-002      | --            | Water  | 04/22/2016                      | 10:00                          | X         | Trip Blank                          |

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate

-- - Not applicable

Table 2

**Analytical Report Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Location ID:                                         | MW 3             | MW 8             | MW 8                    | MW 12            | MW 14            |        |
|------------------------------------------------------|------------------|------------------|-------------------------|------------------|------------------|--------|
| Sample Name:                                         | GW-042016-SM-011 | GW-042016-SM-008 | GW-042016-SM-009        | GW-042116-SM-016 | GW-041916-SM-001 |        |
| Sample Date:                                         | 04/20/2016       | 04/20/2016       | 04/20/2016<br>Duplicate | 04/21/2016       | 04/19/2016       |        |
| Parameters                                           | Unit             |                  |                         |                  |                  |        |
| Volatile Organic Compounds                           |                  |                  |                         |                  |                  |        |
| 1,1,1-Trichloroethane                                | µg/L             | 390 J            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,1,2,2-Tetrachloroethane                            | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,1,2-Trichloroethane                                | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,1-Dichloroethane                                   | µg/L             | 250 J            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,1-Dichloroethene                                   | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,2-Dichloroethane                                   | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 1,2-Dichloropropane                                  | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L             | 5000 U           | 2000 U                  | 2000 U           | 50 U             | 1700 U |
| 2-Hexanone                                           | µg/L             | 5000 U           | 2000 U                  | 2000 U           | 50 U             | 1700 U |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L             | 5000 U           | 2000 U                  | 2000 U           | 50 U             | 1700 U |
| Acetone                                              | µg/L             | 470 J            | 2000 U                  | 2000 U           | 50 U             | 1700 U |
| Benzene                                              | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Bromodichloromethane                                 | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Bromoform                                            | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Bromomethane (Methyl bromide)                        | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Carbon disulfide                                     | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Carbon tetrachloride                                 | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Chlorobenzene                                        | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Chloroethane                                         | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Chloroform (Trichloromethane)                        | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Chloromethane (Methyl chloride)                      | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| cis-1,2-Dichloroethene                               | µg/L             | 7400             | 4900                    | 4900             | 130              | 4400   |
| cis-1,3-Dichloropropene                              | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Dibromochloromethane                                 | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Ethylbenzene                                         | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Methylene chloride                                   | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Styrene                                              | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Tetrachloroethene                                    | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Toluene                                              | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| trans-1,2-Dichloroethene                             | µg/L             | 500 U            | 200 U                   | 200 U            | 1.8 J            | 170 U  |
| trans-1,3-Dichloropropene                            | µg/L             | 500 U            | 200 U                   | 200 U            | 5.0 U            | 170 U  |
| Trichloroethene                                      | µg/L             | 12000            | 170 J                   | 160 J            | 5.0 U            | 170 U  |
| Vinyl chloride                                       | µg/L             | 500 U            | 2100                    | 2000             | 5.0 U            | 140 J  |
| Xylenes (total)                                      | µg/L             | 1000 U           | 400 U                   | 400 U            | 10 U             | 330 U  |

Table 2

**Analytical Report Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Location ID:                                         |      | MW 28            | MW 31R           | MW 40            | MW 41            | MW 42            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-041916-SM-007 | GW-042016-SM-010 | GW-041916-SM-004 | GW-041916-SM-006 | GW-041916-SM-005 |
| Sample Date:                                         |      | 04/19/2016       | 04/20/2016       | 04/19/2016       | 04/19/2016       | 04/19/2016       |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |
| Volatile Organic Compounds                           |      |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 1,1,1,2,2-Tetrachloroethane                          | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 1,1,2-Trichloroethane                                | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 1,1-Dichloroethane                                   | µg/L | 33 U             | 310 J            | 230              | 200 U            | 170 U            |
| 1,1-Dichloroethene                                   | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 1,2-Dichloroethane                                   | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 1,2-Dichloropropane                                  | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 330 U            | 5000 U           | 2000 U           | 2000 U           | 1700 U           |
| 2-Hexanone                                           | µg/L | 330 U            | 5000 U           | 2000 U           | 2000 U           | 1700 U           |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 330 U            | 5000 U           | 2000 U           | 2000 U           | 1700 U           |
| Acetone                                              | µg/L | 330 U            | 5000 U           | 2000 U           | 2000 U           | 1700 U           |
| Benzene                                              | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Bromodichloromethane                                 | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Bromoform                                            | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Carbon disulfide                                     | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Carbon tetrachloride                                 | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Chlorobenzene                                        | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Chloroethane                                         | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Chloroform (Trichloromethane)                        | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| cis-1,2-Dichloroethene                               | µg/L | 770              | 15000            | 7000             | 6400             | 4100             |
| cis-1,3-Dichloropropene                              | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Dibromochloromethane                                 | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Ethylbenzene                                         | µg/L | 33 U             | 460 J            | 200 U            | 200 U            | 170 U            |
| Methylene chloride                                   | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Styrene                                              | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Tetrachloroethene                                    | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Toluene                                              | µg/L | 33 U             | 1500             | 200 U            | 200 U            | 170 U            |
| trans-1,2-Dichloroethene                             | µg/L | 13 J             | 500 U            | 100 J            | 100 J            | 190              |
| trans-1,3-Dichloropropene                            | µg/L | 33 U             | 500 U            | 200 U            | 200 U            | 170 U            |
| Trichloroethene                                      | µg/L | 33 U             | 500 U            | 310              | 200 U            | 170 U            |
| Vinyl chloride                                       | µg/L | 150              | 1500             | 360              | 450              | 92 J             |
| Xylenes (total)                                      | µg/L | 67 U             | 1000             | 400 U            | 400 U            | 330 U            |

Table 2

**Analytical Report Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

|                                                      | Location ID: | MW 49            | MW 51            | MW 66            | MW 68            | MW 79            |
|------------------------------------------------------|--------------|------------------|------------------|------------------|------------------|------------------|
|                                                      | Sample Name: | GW-042116-SM-018 | GW-042016-SM-012 | GW-042016-SM-013 | GW-041916-SM-003 | GW-041916-SM-002 |
|                                                      | Sample Date: | 04/21/2016       | 04/20/2016       | 04/20/2016       | 04/19/2016       | 04/19/2016       |
| Parameters                                           | Unit         |                  |                  |                  |                  |                  |
| Volatile Organic Compounds                           |              |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 1,1,2-Trichloroethane                                | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 1,1-Dichloroethane                                   | µg/L         | 33 U             | 5.0 U            | 50               | 120 J            | 100 U            |
| 1,1-Dichloroethene                                   | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 1,2-Dichloroethane                                   | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 1,2-Dichloropropane                                  | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L         | 330 U            | 50 U             | 500 U            | 1700 U           | 1000 U           |
| 2-Hexanone                                           | µg/L         | 330 U            | 50 U             | 500 U            | 1700 U           | 1000 U           |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L         | 330 U            | 50 U             | 500 U            | 1700 U           | 1000 U           |
| Acetone                                              | µg/L         | 330 U            | 50 U             | 500 U            | 1700 U           | 1000 U           |
| Benzene                                              | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Bromodichloromethane                                 | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Bromoform                                            | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Bromomethane (Methyl bromide)                        | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Carbon disulfide                                     | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Carbon tetrachloride                                 | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Chlorobenzene                                        | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Chloroethane                                         | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Chloroform (Trichloromethane)                        | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Chloromethane (Methyl chloride)                      | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| cis-1,2-Dichloroethene                               | µg/L         | 830              | 11               | 1100             | 4500             | 2400             |
| cis-1,3-Dichloropropene                              | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Dibromochloromethane                                 | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Ethylbenzene                                         | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Methylene chloride                                   | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Styrene                                              | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Tetrachloroethene                                    | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Toluene                                              | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| trans-1,2-Dichloroethene                             | µg/L         | 20 J             | 5.0 U            | 52               | 120 J            | 94 J             |
| trans-1,3-Dichloropropene                            | µg/L         | 33 U             | 5.0 U            | 50 U             | 170 U            | 100 U            |
| Trichloroethene                                      | µg/L         | 33 U             | 150              | 50 U             | 1000             | 100 U            |
| Vinyl chloride                                       | µg/L         | 11 J             | 3.5 J            | 140              | 150 J            | 180              |
| Xylenes (total)                                      | µg/L         | 67 U             | 10 U             | 100 U            | 330 U            | 200 U            |

Table 2

**Analytical Report Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Location ID:                                         | MW 85            | MW 85                   | MW-4             | MW89-11          | MW89-11                 |
|------------------------------------------------------|------------------|-------------------------|------------------|------------------|-------------------------|
| Sample Name:                                         | GW-042216-SM-023 | GW-042216-SM-024        | GW-042216-SM-022 | GW-042016-SM-014 | GW-042016-SM-015        |
| Sample Date:                                         | 04/22/2016       | 04/22/2016<br>Duplicate | 04/22/2016       | 04/20/2016       | 04/20/2016<br>Duplicate |
| Parameters                                           | Unit             |                         |                  |                  |                         |
| Volatile Organic Compounds                           |                  |                         |                  |                  |                         |
| 1,1,1-Trichloroethane                                | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 1,1,2,2-Tetrachloroethane                            | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 1,1,2-Trichloroethane                                | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 1,1-Dichloroethane                                   | µg/L             | 310 J                   | 330 J            | 290 J            | 1.0 U                   |
| 1,1-Dichloroethene                                   | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 1,2-Dichloroethane                                   | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 1,2-Dichloropropane                                  | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L             | 5000 U                  | 5000 U           | 5000 U           | 10 U                    |
| 2-Hexanone                                           | µg/L             | 5000 U                  | 5000 U           | 5000 U           | 10 U                    |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L             | 5000 U                  | 5000 U           | 5000 U           | 10 U                    |
| Acetone                                              | µg/L             | 5000 U                  | 5000 U           | 5000 U           | 10 U                    |
| Benzene                                              | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Bromodichloromethane                                 | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Bromoform                                            | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Bromomethane (Methyl bromide)                        | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Carbon disulfide                                     | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Carbon tetrachloride                                 | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Chlorobenzene                                        | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Chloroethane                                         | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Chloroform (Trichloromethane)                        | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Chloromethane (Methyl chloride)                      | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| cis-1,2-Dichloroethene                               | µg/L             | 9900                    | 10000            | 9400             | 1.0 U                   |
| cis-1,3-Dichloropropene                              | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Dibromochloromethane                                 | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Ethylbenzene                                         | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Methylene chloride                                   | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Styrene                                              | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Tetrachloroethene                                    | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Toluene                                              | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| trans-1,2-Dichloroethene                             | µg/L             | 230 J                   | 260 J            | 230 J            | 1.0 U                   |
| trans-1,3-Dichloropropene                            | µg/L             | 500 U                   | 500 U            | 500 U            | 1.0 U                   |
| Trichloroethene                                      | µg/L             | 500 U                   | 500 U            | 800              | 1.0 U                   |
| Vinyl chloride                                       | µg/L             | 340 J                   | 350 J            | 530              | 1.0 U                   |
| Xylenes (total)                                      | µg/L             | 1000 U                  | 1000 U           | 1000 U           | 2.0 U                   |

Table 2

**Analytical Report Summary**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

|                     |                         |                         |
|---------------------|-------------------------|-------------------------|
| <b>Location ID:</b> | <b>Pond Intake</b>      | <b>Pond North</b>       |
| <b>Sample Name:</b> | <b>SW-042216-SM-002</b> | <b>SW-042216-SM-001</b> |
| <b>Sample Date:</b> | <b>04/22/2016</b>       | <b>04/22/2016</b>       |

| Parameters                                           | Unit |       |       |
|------------------------------------------------------|------|-------|-------|
| <b>Volatile Organic Compounds</b>                    |      |       |       |
| 1,1,1-Trichloroethane                                | µg/L | 2.5 U | 5.0 U |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 2.5 U | 5.0 U |
| 1,1,2-Trichloroethane                                | µg/L | 2.5 U | 5.0 U |
| 1,1-Dichloroethane                                   | µg/L | 3.4   | 5.9   |
| 1,1-Dichloroethene                                   | µg/L | 2.5 U | 5.0 U |
| 1,2-Dichloroethane                                   | µg/L | 2.5 U | 5.0 U |
| 1,2-Dichloropropane                                  | µg/L | 2.5 U | 5.0 U |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 25 U  | 50 U  |
| 2-Hexanone                                           | µg/L | 25 U  | 50 U  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 25 U  | 50 U  |
| Acetone                                              | µg/L | 25 U  | 50 U  |
| Benzene                                              | µg/L | 2.5 U | 5.0 U |
| Bromodichloromethane                                 | µg/L | 2.5 U | 5.0 U |
| Bromoform                                            | µg/L | 2.5 U | 5.0 U |
| Bromomethane (Methyl bromide)                        | µg/L | 2.5 U | 5.0 U |
| Carbon disulfide                                     | µg/L | 2.5 U | 5.0 U |
| Carbon tetrachloride                                 | µg/L | 2.5 U | 5.0 U |
| Chlorobenzene                                        | µg/L | 2.5 U | 5.0 U |
| Chloroethane                                         | µg/L | 2.5 U | 5.0 U |
| Chloroform (Trichloromethane)                        | µg/L | 2.5 U | 5.0 U |
| Chloromethane (Methyl chloride)                      | µg/L | 2.5 U | 5.0 U |
| cis-1,2-Dichloroethene                               | µg/L | 77    | 120   |
| cis-1,3-Dichloropropene                              | µg/L | 2.5 U | 5.0 U |
| Dibromochloromethane                                 | µg/L | 2.5 U | 5.0 U |
| Ethylbenzene                                         | µg/L | 2.5 U | 5.0 U |
| Methylene chloride                                   | µg/L | 2.5 U | 5.3 U |
| Styrene                                              | µg/L | 2.5 U | 5.0 U |
| Tetrachloroethene                                    | µg/L | 2.5 U | 5.0 U |
| Toluene                                              | µg/L | 2.5 U | 5.0 U |
| trans-1,2-Dichloroethene                             | µg/L | 3.0   | 5.3   |
| trans-1,3-Dichloropropene                            | µg/L | 2.5 U | 5.0 U |
| Trichloroethene                                      | µg/L | 2.5 U | 5.0 U |
| Vinyl chloride                                       | µg/L | 4.4   | 7.8   |
| Xylenes (total)                                      | µg/L | 5.0 U | 10 U  |

Notes:

J - Estimated Concentration

U - Not detected at the associated reporting limit

**Table 3**

**Analytical Methods**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Parameter | Method                    | Matrix | Holding Time                          |                                                   |
|-----------|---------------------------|--------|---------------------------------------|---------------------------------------------------|
|           |                           |        | Collection to<br>Extraction<br>(Days) | Collection or Extraction<br>to Analysis<br>(Days) |
| Volatiles | SW-846 8260B <sup>1</sup> | Water  | -                                     | 14                                                |

Notes:

- <sup>1</sup> - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks**  
**Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**April 2016**

| Parameter | Analyte            | Analysis Date<br>(mm/dd/yyyy) | Blank Result * | Sample ID        | Original Result | Qualified Result | Units |
|-----------|--------------------|-------------------------------|----------------|------------------|-----------------|------------------|-------|
| Volatiles | Methylene chloride | 05/03/2016                    | 360 J          | GW-042016-SM-010 | 420 J           | 500 U            | µg/l  |
|           |                    | 05/03/2016                    | 360 J          | GW-042016-SM-011 | 410 J           | 500 U            | µg/l  |
|           | Methylene chloride | 05/02/2016                    | 3.2 J          | GW-042016-SM-012 | 3.0 J           | 5.0 U            | µg/l  |
|           |                    | 05/02/2016                    | 32 J           | GW-042016-SM-013 | 31 J            | 50 U             | µg/l  |
|           |                    | 05/02/2016                    | 21 J           | GW-042116-SM-018 | 27 J            | 33 U             | µg/l  |
|           |                    | 05/02/2016                    | 130 J          | GW-042016-SM-008 | 120 J           | 200 U            | µg/l  |
|           |                    | 05/02/2016                    | 130 J          | GW-042016-SM-009 | 130 J           | 200 U            | µg/l  |
|           | Methylene chloride | 05/03/2016                    | 410 J          | GW-042216-SM-022 | 470 J           | 500 U            | µg/l  |
|           |                    | 05/03/2016                    | 410 J          | GW-042216-SM-023 | 440 J           | 500 U            | µg/l  |
|           |                    | 05/03/2016                    | 410 J          | GW-042216-SM-024 | 430 J           | 500 U            | µg/l  |
|           |                    | 05/04/2016                    | 4.1 J          | SW-042216-SM-001 | 5.3             | 5.3 U            | µg/l  |
|           |                    | 05/04/2016                    | 2.0J           | SW-042216-SM-002 | 2.5             | 2.5 U            | µg/l  |

## Notes:

- \* - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated



## Appendix C.2

# July and October 2016 Data Validation Report



# Memorandum

November 29, 2016

To: Rob Catallo Ref. No.: 017302-T07

From: Deb Andrasko/mkd/58-NF Tel: 716-297-6150

cc: Tyler Wittmaier

**Subject: Analytical Results and Reduced Validation  
Surface Water and Site-Wide Groundwater Monitoring  
RACER Trust – MLK Boulevard Facility  
Anderson, Indiana  
July - October 2016**

## 1. Introduction

This document details a reduced validation of analytical results for surface water and groundwater samples collected in support of the Surface Water and Site-Wide Groundwater Monitoring at the Anderson, Indiana Site during July and October 2016. Samples were submitted to TestAmerica Laboratory, located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS) and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the Resource Conservation and Recovery Act (RCRA) Facility Investigation at GM Anderson, Indiana Facility", IND 980 700 801, Revision 2, October 14, 1997
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.



## **2. Sample Holding Time and Preservation**

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

## **3. Laboratory Method Blank Analyses**

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect with the exception of methylene chloride present at a low concentration in one of the blanks. Associated sample results with concentrations similar to the blank were qualified as estimated due to potential laboratory contamination (see Table 4).

## **4. Surrogate Spike Recoveries - Organic Analyses**

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

## **5. Laboratory Control Sample Analyses**

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all analytes of interest. All LCS recoveries were within laboratory control limits, with the exception of high recoveries for some compounds. The associated sample results were non-detect and would not have been impacted. No qualification of the data was deemed necessary.



## **6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses**

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the laboratory control limits with the exception of three compounds with high recoveries. The associated sample results were non-detect and would not be impacted by the implied high bias.

## **7. Field QA/QC Samples**

The field QA/QC consisted of 4 trip blank samples, 3 equipment rinse blank samples, and 6 field duplicate sample sets.

### ***Trip Blank Sample Analysis***

To evaluate contamination from sample collection, transportation, storage, and analytical activities, trip blanks were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of a low concentration of acetone in one of the blanks. All associated samples were non-detect and would not have been impacted.

### ***Rinse Blank Sample Analysis***

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, rinse blanks were submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of trichloroethene present at a low concentration in one of the blanks. An associated sample with a similar result was qualified as non-detect (see Table 5).

### ***Field Duplicate Sample Analysis***

To assess the analytical and sampling protocol precision, field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were in agreement, demonstrating acceptable sampling and analytical precision.

## **8. Analyte Reporting**

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL



were reported as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the PQL in Table 2.

## **9. Conclusion**

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

**Sample Collection and Analysis Summary**  
**Surface Waters and Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Sample Identification | Location      | Matrix        | Collection Date<br>(mm/dd/yyyy) | Time<br>(hr:min) | Analysis  | Comments              |
|-----------------------|---------------|---------------|---------------------------------|------------------|-----------|-----------------------|
|                       |               |               |                                 |                  | Volatiles |                       |
| SW-071916-TP-001      | Pond (Intake) | Surface Water | 07/19/16                        | 09:45            | X         | MS/MSD                |
| SW-071916-TP-002      | Pond (North)  | Surface Water | 07/19/16                        | 09:55            | X         |                       |
| SW-071916-TP-003      | Pond (North)  | Surface Water | 07/19/16                        | 10:00            | X         | FD (SW-071916-TP-002) |
| TB-071916-TP-001      | --            | Water         | 07/19/16                        | 10:10            | X         | Trip Blank            |
| GW-101916-TW-001      | MW 65         | Groundwater   | 10/19/16                        | 16:30            | X         |                       |
| GW-102016-TW-002      | MW 64         | Groundwater   | 10/20/16                        | 09:40            | X         |                       |
| GW-102016-TW-003      | MW 66         | Groundwater   | 10/20/16                        | 11:20            | X         |                       |
| GW-102016-TW-004      | MW 40         | Groundwater   | 10/20/16                        | 13:20            | X         |                       |
| GW-102016-TW-005      | MW 68         | Groundwater   | 10/20/16                        | 14:50            | X         |                       |
| TB-102016-TW-001      | --            | Water         | 10/20/16                        | --               | X         | Trip Blank            |
| GW-102116-TW-006      | MW 79         | Groundwater   | 10/21/16                        | 09:35            | X         | MS/MSD                |
| GW-102116-TW-007      | MW 31R        | Groundwater   | 10/21/16                        | 11:45            | X         |                       |
| GW-102116-TW-008      | MW 31R        | Groundwater   | 10/21/16                        | 11:45            | X         | FD (GW-102116-TW-007) |
| GW-102116-TW-009      | MW 15         | Groundwater   | 10/21/16                        | 14:00            | X         |                       |
| GW-102116-TW-010      | MW 21         | Groundwater   | 10/21/16                        | 16:30            | X         |                       |
| GW-102116-TW-011      | MW 8          | Groundwater   | 10/21/16                        | 18:00            | X         |                       |
| TB-102116-TW-002      | --            | Water         | 10/21/16                        | --               | X         | Trip Blank            |
| EB-102116-TW-001      | --            | Water         | 10/21/16                        | 17:10            | X         | Equipment Blank       |
| TB-102216-TW-003      | Trip Blank    | Water         | 10/22/16                        | --               | X         |                       |
| GW-102216-TW-012      | MW 81         | Groundwater   | 10/22/16                        | 09:45            | X         | MS/MSD                |
| GW-102216-TW-013      | MW 86         | Groundwater   | 10/22/16                        | 11:00            | X         |                       |
| GW-102216-TW-014      | MW 88         | Groundwater   | 10/22/16                        | 12:10            | X         |                       |
| GW-102216-TW-015      | MW 88         | Groundwater   | 10/22/16                        | 12:10            | X         | FD (GW-102216-TW-014) |
| GW-102216-TW-016      | MW 80         | Groundwater   | 10/22/16                        | 13:35            | X         |                       |
| GW-102216-TW-017      | MW 83         | Groundwater   | 10/22/16                        | 15:30            | X         |                       |
| GW-102216-TW-018      | MW 83         | Groundwater   | 10/22/16                        | 15:30            | X         | FD (GW-102216-TW-017) |
| GW-102216-TW-019      | MW 28         | Groundwater   | 10/22/16                        | 17:10            | X         |                       |
| GW-102216-TW-020      | MW 61         | Groundwater   | 10/22/16                        | 18:30            | X         |                       |
| GW-102316-TW-021      | MW 41         | Groundwater   | 10/23/16                        | 09:15            | X         |                       |
| GW-102316-TW-022      | MW 42         | Groundwater   | 10/23/16                        | 10:30            | X         |                       |
| GW-102316-TW-023      | MW 75         | Groundwater   | 10/23/16                        | 11:45            | X         |                       |
| GW-102316-TW-024      | MW 37         | Groundwater   | 10/23/16                        | 13:20            | X         |                       |
| EB-102316TW-002       | --            | Water         | 10/23/16                        | 13:50            | X         | Equipment Blank       |
| GW-102316-TW-025      | MW 82         | Groundwater   | 10/23/16                        | 15:15            | X         |                       |

Table 1

**Sample Collection and Analysis Summary**  
**Surface Waters and Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Sample Identification | Location      | Matrix        | Collection Date<br>(mm/dd/yyyy) | Time<br>(hr:min) | Analysis  | Comments              |
|-----------------------|---------------|---------------|---------------------------------|------------------|-----------|-----------------------|
|                       |               |               |                                 |                  | Volatiles |                       |
| GW-102316-TW-026      | MW 16         | Groundwater   | 10/23/16                        | 16:10            | X         |                       |
| GW-102316-TW-027      | MW 51         | Groundwater   | 10/23/16                        | 17:30            | X         |                       |
| GW-102316-TW-028      | MW 46         | Groundwater   | 10/23/16                        | 18:40            | X         |                       |
| GW-102416-TW-029      | MW-2          | Groundwater   | 10/24/16                        | 10:00            | X         |                       |
| GW-102416-TW-030      | MW 56         | Groundwater   | 10/24/16                        | 11:30            | X         |                       |
| GW-102416-TW-031      | MW-4          | Groundwater   | 10/24/16                        | 12:35            | X         |                       |
| GW-102416-TW-032      | MW 85         | Groundwater   | 10/24/16                        | 14:00            | X         |                       |
| GW-102416-TW-033      | MW 57         | Water         | 10/24/16                        | 15:20            | X         |                       |
| SW-102416-TW-001      | Pond (Intake) | Surface Water | 10/24/16                        | 16:15            | X         | FD (SW-102416-TW-001) |
| SW-102416-TW-002      | Pond (Intake) | Surface Water | 10/24/16                        | 16:15            | X         |                       |
| SW-102416-TW-003      | Pond (North)  | Surface Water | 10/24/16                        | 16:25            | X         |                       |
| GW-102416-TW-034      | MW 84         | Groundwater   | 10/24/16                        | 18:25            | X         |                       |
| TB-102516-TW-004      | --            | Water         | 10/25/16                        | --               | X         | Trip Blank            |
| GW-102516-TW-035      | MW 12         | Groundwater   | 10/25/16                        | 09:20            | X         |                       |
| GW-102516-TW-036      | MW 14         | Groundwater   | 10/25/16                        | 10:40            | X         |                       |
| GW-102516-TW-037      | MW 97R-15     | Groundwater   | 10/25/16                        | 12:50            | X         |                       |
| GW-102516-TW-038      | MW 58         | Groundwater   | 10/25/16                        | 14:10            | X         |                       |
| EB-102516-TW-003      | --            | Water         | 10/25/16                        | 17:05            | X         | Equipment Blank       |
| GW-102516-TW-039      | MW 89-11      | Groundwater   | 10/25/16                        | 15:55            | X         |                       |
| GW-102516-TW-040      | MW 89-11      | Groundwater   | 10/25/16                        | 15:55            | X         | FD (GW-102516-TW-039) |
| GW-102516-TW-041      | MW 3          | Groundwater   | 10/25/16                        | 18:40            | X         | MS/MSD                |

## Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate  
-- - Not applicable  
FD - Field duplicate of sample in parantheses

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 3             | MW 8             | MW 12            | MW 14            | MW 15            | MW 16            | MW 21            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-102516-TW-041 | GW-102116-TW-011 | GW-102516-TW-035 | GW-102516-TW-036 | GW-102116-TW-009 | GW-102316-TW-026 | GW-102116-TW-010 |
| Sample Date:                                         |      | 10/25/2016       | 10/21/2016       | 10/25/2016       | 10/25/2016       | 10/21/2016       | 10/23/2016       | 10/21/2016       |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 330              | 200 U            | 5.0 U            | 200 U            | 370              | 1.0 U            | 1.0 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| 1,1,2-Trichloroethane                                | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| 1,1-Dichloroethane                                   | µg/L | 110 J            | 200 U            | 5.0 U            | 200 U            | 53 J             | 1.0 U            | 1.0 U            |
| 1,1-Dichloroethene                                   | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| 1,2-Dichloroethane                                   | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| 1,2-Dichloropropane                                  | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 2500 U           | 2000 U           | 50 U             | 2000 U           | 1000 U           | 10 U             | 10 U             |
| 2-Hexanone                                           | µg/L | 2500 U           | 2000 U           | 50 U             | 2000 U           | 1000 U           | 10 U             | 10 U             |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 2500 U           | 2000 U           | 50 U             | 2000 U           | 1000 U           | 10 U             | 10 U             |
| Acetone                                              | µg/L | 2500 U           | 2000 U           | 50 U             | 2000 U           | 1000 U           | 10 U             | 10 U             |
| Benzene                                              | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Bromodichloromethane                                 | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Bromoform                                            | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Carbon disulfide                                     | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Carbon tetrachloride                                 | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Chlorobenzene                                        | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Chloroethane                                         | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Chloroform (Trichloromethane)                        | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| cis-1,2-Dichloroethene                               | µg/L | 1900             | 4300             | 120              | 4400             | 1700             | 1.0 U            | 1.0 U            |
| cis-1,3-Dichloropropene                              | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Dibromochloromethane                                 | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Ethylbenzene                                         | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Methylene chloride                                   | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Styrene                                              | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Tetrachloroethene                                    | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Toluene                                              | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| trans-1,2-Dichloroethene                             | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| trans-1,3-Dichloropropene                            | µg/L | 250 U            | 200 U            | 5.0 U            | 200 U            | 100 U            | 1.0 U            | 1.0 U            |
| Trichloroethene                                      | µg/L | 4900             | 390              | 5.0 U            | 200 U            | 2500             | 1.0 U            | 1.0 U            |
| Vinyl chloride                                       | µg/L | 250 U            | 1300             | 5.0 U            | 120 J            | 100 U            | 1.0 U            | 1.0 U            |
| Xylenes (total)                                      | µg/L | 500 U            | 400 U            | 10 U             | 400 U            | 200 U            | 2.0 U            | 2.0 U            |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | 0.60             | 18               | --               | --               | 1.8              | --               | 0.50 U           |
| Ethene                                               | µg/L | 0.77             | 83               | --               | --               | 0.48 J           | --               | 0.50 U           |
| Methane                                              | µg/L | 6.4              | 96               | --               | --               | 2.6              | --               | 3.4              |



Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                   |      | MW 3             | MW 8             | MW 12            | MW 14            | MW 15            | MW 16            | MW 21            |
|--------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                   |      | GW-102516-TW-041 | GW-102116-TW-011 | GW-102516-TW-035 | GW-102516-TW-036 | GW-102116-TW-009 | GW-102316-TW-026 | GW-102116-TW-010 |
| Sample Date:                   |      | 10/25/2016       | 10/21/2016       | 10/25/2016       | 10/25/2016       | 10/21/2016       | 10/23/2016       | 10/21/2016       |
| Parameters                     | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Metals</b>                  |      |                  |                  |                  |                  |                  |                  |                  |
| Manganese (dissolved)          | µg/L | 530              | 640              | --               | --               | 18               | --               | 230              |
| <b>General Chemistry</b>       |      |                  |                  |                  |                  |                  |                  |                  |
| Alkalinity, bicarbonate        | mg/L | 310              | 420              | --               | --               | 250              | --               | 320              |
| Alkalinity, carbonate          | mg/L | 5.0 U            | 5.0 U            | --               | --               | 5.0 U            | --               | 5.0 U            |
| Chloride                       | mg/L | 7.7              | 22               | --               | --               | 7.9              | --               | 41               |
| Dissolved organic carbon (DOC) | mg/L | 4.2              | 2.4              | --               | --               | 6.4              | --               | 3.9              |
| Hardness                       | mg/L | 330              | 560              | --               | --               | 320              | --               | 430              |
| Nitrate (as N)                 | mg/L | 2.1              | 0.10 U           | --               | --               | 0.091 J          | --               | 0.10 U           |
| Nitrite (as N)                 | mg/L | 0.16             | 0.10 U           | --               | --               | 0.10 U           | --               | 0.10 U           |
| Sulfate                        | mg/L | 59               | 130              | --               | --               | 100              | --               | 54               |
| Sulfide                        | mg/L | 3.0 U            | 3.0 U            | --               | --               | 3.0 U            | --               | 3.0 U            |
| Total organic carbon (TOC)     | mg/L | 4.3              | 2.3              | --               | --               | 6.3              | --               | 4.7              |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 28            | MW 31R           | MW 31R           | MW 37            | MW 40            | MW 41            | MW 42            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-102216-TW-019 | GW-102116-TW-007 | GW-102116-TW-008 | GW-102316-TW-024 | GW-102016-TW-004 | GW-102316-TW-021 | GW-102316-TW-022 |
| Sample Date:                                         |      | 10/22/2016       | 10/21/2016       | 10/21/2016       | 10/23/2016       | 10/20/2016       | 10/23/2016       | 10/23/2016       |
| Duplicate                                            |      |                  |                  |                  |                  |                  |                  |                  |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 1,1,2-Trichloroethane                                | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 1,1-Dichloroethane                                   | µg/L | 50 U             | 430 J            | 430 J            | 1.0 U            | 160 J            | 330 U            | 200 U            |
| 1,1-Dichloroethene                                   | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 1,2-Dichloroethane                                   | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 1,2-Dichloropropane                                  | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 500 U            | 7100 U           | 7100 U           | 10 U             | 2500 U           | 3300 U           | 2000 U           |
| 2-Hexanone                                           | µg/L | 500 U            | 7100 U           | 7100 U           | 10 U             | 2500 U           | 3300 U           | 2000 U           |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 500 U            | 7100 U           | 7100 U           | 10 U             | 2500 U           | 3300 U           | 2000 U           |
| Acetone                                              | µg/L | 500 U            | 7100 U           | 7100 U           | 10 U             | 2500 U           | 3300 U           | 2000 U           |
| Benzene                                              | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Bromodichloromethane                                 | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Bromoform                                            | µg/L | 50 U             | 500 J            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Carbon disulfide                                     | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Carbon tetrachloride                                 | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Chlorobenzene                                        | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Chloroethane                                         | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Chloroform (Trichloromethane)                        | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| cis-1,2-Dichloroethene                               | µg/L | 860              | 18000            | 18000            | 1.0 U            | 5000             | 5200             | 3200             |
| cis-1,3-Dichloropropene                              | µg/L | 50 U             | 390 J            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Dibromochloromethane                                 | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Ethylbenzene                                         | µg/L | 50 U             | 760              | 690 J            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Methylene chloride                                   | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Styrene                                              | µg/L | 50 U             | 160 J            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Tetrachloroethene                                    | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Toluene                                              | µg/L | 50 U             | 2000             | 1900             | 1.0 U            | 250 U            | 330 U            | 200 U            |
| trans-1,2-Dichloroethene                             | µg/L | 16 J             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 140 J            |
| trans-1,3-Dichloropropene                            | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 250 U            | 330 U            | 200 U            |
| Trichloroethene                                      | µg/L | 50 U             | 710 U            | 710 U            | 1.0 U            | 160 J            | 330 U            | 200 U            |
| Vinyl chloride                                       | µg/L | 190              | 3400             | 3400             | 1.0 U            | 310              | 350              | 100 J            |
| Xylenes (total)                                      | µg/L | 100 U            | 1900             | 1700             | 2.0 U            | 500 U            | 670 U            | 400 U            |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | --               | 65               | 68               | --               | 0.42 J           | --               | --               |
| Ethene                                               | µg/L | --               | 2000             | 2100             | --               | 4.8              | --               | --               |
| Methane                                              | µg/L | --               | 940              | 980              | --               | 28               | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
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| Location ID:                   |      | MW 28            | MW 31R           | MW 31R           | MW 37            | MW 40            | MW 41            | MW 42            |
|--------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                   |      | GW-102216-TW-019 | GW-102116-TW-007 | GW-102116-TW-008 | GW-102316-TW-024 | GW-102016-TW-004 | GW-102316-TW-021 | GW-102316-TW-022 |
| Sample Date:                   |      | 10/22/2016       | 10/21/2016       | 10/21/2016       | 10/23/2016       | 10/20/2016       | 10/23/2016       | 10/23/2016       |
|                                |      | Duplicate        |                  |                  |                  |                  |                  |                  |
| Parameters                     | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Metals</b>                  |      |                  |                  |                  |                  |                  |                  |                  |
| Manganese (dissolved)          | µg/L | --               | 870              | 840              | --               | 110              | --               | --               |
| <b>General Chemistry</b>       |      |                  |                  |                  |                  |                  |                  |                  |
| Alkalinity, bicarbonate        | mg/L | --               | 480              | 480              | --               | 340              | --               | --               |
| Alkalinity, carbonate          | mg/L | --               | 5.0 U            | 5.0 U            | --               | 5.0 U            | --               | --               |
| Chloride                       | mg/L | --               | 120              | 120              | --               | 56               | --               | --               |
| Dissolved organic carbon (DOC) | mg/L | --               | 16               | 17               | --               | 1.2              | --               | --               |
| Hardness                       | mg/L | --               | 650              | 660              | --               | 430              | --               | --               |
| Nitrate (as N)                 | mg/L | --               | 0.32             | 0.32             | --               | 0.10 U           | --               | --               |
| Nitrite (as N)                 | mg/L | --               | 0.10 U           | 0.10 U           | --               | 0.10 U           | --               | --               |
| Sulfate                        | mg/L | --               | 67               | 65               | --               | 77               | --               | --               |
| Sulfide                        | mg/L | --               | 3.0 U            | 3.0 U            | --               | 3.0 U            | --               | --               |
| Total organic carbon (TOC)     | mg/L | --               | 18               | 17               | --               | 1.1              | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 46            | MW 51            | MW 56            | MW 57            | MW 58            | MW 61            | MW 64            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-102316-TW-028 | GW-102316-TW-027 | GW-102416-TW-030 | GW-102416-TW-033 | GW-102516-TW-038 | GW-102216-TW-020 | GW-102016-TW-002 |
| Sample Date:                                         |      | 10/23/2016       | 10/23/2016       | 10/24/2016       | 10/24/2016       | 10/25/2016       | 10/22/2016       | 10/20/2016       |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 1,1,2-Trichloroethane                                | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 1,1-Dichloroethane                                   | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 35 J             | 1.0 U            | 4.4              |
| 1,1-Dichloroethene                                   | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 1,2-Dichloroethane                                   | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 1,2-Dichloropropane                                  | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 10 U             | 80 U             | 10 U             | 20 U             | 500 U            | 10 U             | 25 U             |
| 2-Hexanone                                           | µg/L | 10 U             | 80 U             | 10 U             | 20 U             | 500 U            | 10 U             | 25 U             |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 10 U             | 80 U             | 10 U             | 20 U             | 500 U            | 10 U             | 25 U             |
| Acetone                                              | µg/L | 10 U             | 80 U             | 10 U             | 20 U             | 500 U            | 10 U             | 25 U             |
| Benzene                                              | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Bromodichloromethane                                 | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Bromoform                                            | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Carbon disulfide                                     | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Carbon tetrachloride                                 | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Chlorobenzene                                        | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Chloroethane                                         | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Chloroform (Trichloromethane)                        | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| cis-1,2-Dichloroethene                               | µg/L | 1.0 U            | 12               | 1.0 U            | 4.2              | 1100             | 0.35 J           | 62               |
| cis-1,3-Dichloropropene                              | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Dibromochloromethane                                 | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Ethylbenzene                                         | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Methylene chloride                                   | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Styrene                                              | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Tetrachloroethene                                    | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Toluene                                              | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| trans-1,2-Dichloroethene                             | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 25 J             | 1.0 U            | 6.1              |
| trans-1,3-Dichloropropene                            | µg/L | 1.0 U            | 8.0 U            | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Trichloroethene                                      | µg/L | 1.0 U            | 140              | 1.0 U            | 2.0 U            | 50 U             | 1.0 U            | 2.5 U            |
| Vinyl chloride                                       | µg/L | 1.0 U            | 5.3 J            | 1.0 U            | 46               | 85               | 0.69 J           | 39               |
| Xylenes (total)                                      | µg/L | 2.0 U            | 16 U             | 2.0 U            | 4.0 U            | 100 U            | 2.0 U            | 5.0 U            |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | --               | --               | --               | 1.7              | 0.29 J           | --               | 0.23 J           |
| Ethene                                               | µg/L | --               | --               | --               | 4.2              | 0.25 J           | --               | 0.27 J           |
| Methane                                              | µg/L | --               | --               | --               | 34               | 6.7              | --               | 0.39 J           |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
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|                     |                         |                         |                         |                         |                         |                         |                         |
|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Location ID:</b> | <b>MW 46</b>            | <b>MW 51</b>            | <b>MW 56</b>            | <b>MW 57</b>            | <b>MW 58</b>            | <b>MW 61</b>            | <b>MW 64</b>            |
| <b>Sample Name:</b> | <b>GW-102316-TW-028</b> | <b>GW-102316-TW-027</b> | <b>GW-102416-TW-030</b> | <b>GW-102416-TW-033</b> | <b>GW-102516-TW-038</b> | <b>GW-102216-TW-020</b> | <b>GW-102016-TW-002</b> |
| <b>Sample Date:</b> | <b>10/23/2016</b>       | <b>10/23/2016</b>       | <b>10/24/2016</b>       | <b>10/24/2016</b>       | <b>10/25/2016</b>       | <b>10/22/2016</b>       | <b>10/20/2016</b>       |

| <b>Parameters</b>              | <b>Unit</b> |    |    |    |        |         |        |
|--------------------------------|-------------|----|----|----|--------|---------|--------|
| <b>Metals</b>                  |             |    |    |    |        |         |        |
| Manganese (dissolved)          | µg/L        | -- | -- | -- | 310    | 400     | 150    |
| <b>General Chemistry</b>       |             |    |    |    |        |         |        |
| Alkalinity, bicarbonate        | mg/L        | -- | -- | -- | 370    | 380     | 190    |
| Alkalinity, carbonate          | mg/L        | -- | -- | -- | 5.0 U  | 5.0 U   | 5.0 U  |
| Chloride                       | mg/L        | -- | -- | -- | 35     | 35      | 36     |
| Dissolved organic carbon (DOC) | mg/L        | -- | -- | -- | 3.3    | 2.1     | 3.4    |
| Hardness                       | mg/L        | -- | -- | -- | 490    | 520     | 300    |
| Nitrate (as N)                 | mg/L        | -- | -- | -- | 0.10 U | 0.036 J | 0.13   |
| Nitrite (as N)                 | mg/L        | -- | -- | -- | 0.10 U | 0.10 U  | 0.10 U |
| Sulfate                        | mg/L        | -- | -- | -- | 96     | 100     | 82     |
| Sulfide                        | mg/L        | -- | -- | -- | 3.0 U  | 3.0 U   | 3.0 U  |
| Total organic carbon (TOC)     | mg/L        | -- | -- | -- | 3.7    | 2.2     | 3.2    |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 65            | MW 66            | MW 68            | MW 75            | MW 79            | MW 80            | MW 81            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-101916-TW-001 | GW-102016-TW-003 | GW-102016-TW-005 | GW-102316-TW-023 | GW-102116-TW-006 | GW-102216-TW-016 | GW-102216-TW-012 |
| Sample Date:                                         |      | 10/19/2016       | 10/20/2016       | 10/20/2016       | 10/23/2016       | 10/21/2016       | 10/22/2016       | 10/22/2016       |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 1,1,2-Trichloroethane                                | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 1,1-Dichloroethane                                   | µg/L | 1.6              | 83 J             | 160 J            | 1.0 U            | 100 U            | 1.8 U            | 1.7 J            |
| 1,1-Dichloroethene                                   | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 1,2-Dichloroethane                                   | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 1,2-Dichloropropane                                  | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 10 U             | 1000 U           | 2000 U           | 10 U             | 1000 U           | 18 U             | 50 U             |
| 2-Hexanone                                           | µg/L | 10 U             | 1000 U           | 2000 U           | 10 U             | 1000 U           | 18 U             | 50 U             |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 10 U             | 1000 U           | 2000 U           | 10 U             | 1000 U           | 18 U             | 50 U             |
| Acetone                                              | µg/L | 10 U             | 1000 U           | 2000 U           | 10 U             | 1000 U           | 18 U             | 50 U             |
| Benzene                                              | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Bromodichloromethane                                 | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Bromoform                                            | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Carbon disulfide                                     | µg/L | 0.57 J           | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Carbon tetrachloride                                 | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Chlorobenzene                                        | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Chloroethane                                         | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Chloroform (Trichloromethane)                        | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| cis-1,2-Dichloroethene                               | µg/L | 28               | 1800             | 3500             | 0.70 J           | 2100             | 25               | 77               |
| cis-1,3-Dichloropropene                              | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Dibromochloromethane                                 | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Ethylbenzene                                         | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Methylene chloride                                   | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Styrene                                              | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Tetrachloroethene                                    | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Toluene                                              | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| trans-1,2-Dichloroethene                             | µg/L | 1.2              | 75 J             | 140 J            | 1.0 U            | 85 J             | 0.78 J           | 5.0 U            |
| trans-1,3-Dichloropropene                            | µg/L | 1.0 U            | 100 U            | 200 U            | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Trichloroethene                                      | µg/L | 1.0 U            | 100 U            | 1700             | 1.0 U            | 100 U            | 1.8 U            | 5.0 U            |
| Vinyl chloride                                       | µg/L | 1.4              | 140              | 150 J            | 1.0 U            | 150              | 49               | 26               |
| Xylenes (total)                                      | µg/L | 2.0 U            | 200 U            | 400 U            | 2.0 U            | 200 U            | 3.6 U            | 10 U             |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | --               | 0.50 U           | 0.50 U           | --               | 0.50 U           | --               | --               |
| Ethene                                               | µg/L | --               | 0.50 U           | 0.54             | --               | --               | --               | --               |
| Methane                                              | µg/L | --               | 2.5              | 6.3              | --               | 4.7              | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

|              |                  |                  |                  |                  |                  |                  |                  |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Location ID: | MW 65            | MW 66            | MW 68            | MW 75            | MW 79            | MW 80            | MW 81            |
| Sample Name: | GW-101916-TW-001 | GW-102016-TW-003 | GW-102016-TW-005 | GW-102316-TW-023 | GW-102116-TW-006 | GW-102216-TW-016 | GW-102216-TW-012 |
| Sample Date: | 10/19/2016       | 10/20/2016       | 10/20/2016       | 10/23/2016       | 10/21/2016       | 10/22/2016       | 10/22/2016       |

| Parameters                     | Unit |    |        |        |    |        |    |    |
|--------------------------------|------|----|--------|--------|----|--------|----|----|
| <b>Metals</b>                  |      |    |        |        |    |        |    |    |
| Manganese (dissolved)          | µg/L | -- | 240    | 250    | -- | 130    | -- | -- |
| <b>General Chemistry</b>       |      |    |        |        |    |        |    |    |
| Alkalinity, bicarbonate        | mg/L | -- | 300    | 330    | -- | 330    | -- | -- |
| Alkalinity, carbonate          | mg/L | -- | 5.0 U  | 5.0 U  | -- | 5.0 U  | -- | -- |
| Chloride                       | mg/L | -- | 46     | 34     | -- | 43     | -- | -- |
| Dissolved organic carbon (DOC) | mg/L | -- | 1.2    | 1.3    | -- | 1.0    | -- | -- |
| Hardness                       | mg/L | -- | 360    | 380    | -- | 450    | -- | -- |
| Nitrate (as N)                 | mg/L | -- | 0.10 U | 0.10 U | -- | 0.10 U | -- | -- |
| Nitrite (as N)                 | mg/L | -- | 0.10 U | 0.10 U | -- | 0.10 U | -- | -- |
| Sulfate                        | mg/L | -- | 71     | 62     | -- | 68     | -- | -- |
| Sulfide                        | mg/L | -- | 3.0 U  | 3.0 U  | -- | 3.0 U  | -- | -- |
| Total organic carbon (TOC)     | mg/L | -- | 1.1    | 1.3    | -- | 1.0    | -- | -- |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 82            | MW 83            | MW 83            | MW 84            | MW 85            | MW 86            | MW 88            |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-102316-TW-025 | GW-102216-TW-017 | GW-102216-TW-018 | GW-102416-TW-034 | GW-102416-TW-032 | GW-102216-TW-013 | GW-102216-TW-014 |
| Sample Date:                                         |      | 10/23/2016       | 10/22/2016       | 10/22/2016       | 10/24/2016       | 10/24/2016       | 10/22/2016       | 10/22/2016       |
| Duplicate                                            |      |                  |                  |                  |                  |                  |                  |                  |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 1,1,2-Trichloroethane                                | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 1,1-Dichloroethane                                   | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 340 J            | 1.0 U            | 1.0 U            |
| 1,1-Dichloroethene                                   | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 1,2-Dichloroethane                                   | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 1,2-Dichloropropane                                  | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 10 U             | 10 U             | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             |
| 2-Hexanone                                           | µg/L | 10 U             | 10 U             | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 10 U             | 10 U             | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             |
| Acetone                                              | µg/L | 10 U             | 10 U             | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             |
| Benzene                                              | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Bromodichloromethane                                 | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Bromoform                                            | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Carbon disulfide                                     | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Carbon tetrachloride                                 | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Chlorobenzene                                        | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Chloroethane                                         | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Chloroform (Trichloromethane)                        | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| cis-1,2-Dichloroethene                               | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0              | 8400             | 1.0 U            | 1.0 U            |
| cis-1,3-Dichloropropene                              | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Dibromochloromethane                                 | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Ethylbenzene                                         | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Methylene chloride                                   | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Styrene                                              | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Tetrachloroethene                                    | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Toluene                                              | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| trans-1,2-Dichloroethene                             | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 260 J            | 1.0 U            | 1.0 U            |
| trans-1,3-Dichloropropene                            | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Trichloroethene                                      | µg/L | 1.0 U            | 1.0 U            | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            |
| Vinyl chloride                                       | µg/L | 1.0 U            | 5.3              | 5.3              | 1.0 U            | 420 J            | 1.0 U            | 1.9              |
| Xylenes (total)                                      | µg/L | 2.0 U            | 2.0 U            | 2.0 U            | 2.0 U            | 1100 U           | 2.0 U            | 2.0 U            |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | --               | --               | --               | --               | 0.79             | --               | --               |
| Ethene                                               | µg/L | --               | --               | --               | --               | 4.3              | --               | --               |
| Methane                                              | µg/L | --               | --               | --               | --               | 11               | --               | --               |



Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                   |      | MW 82            | MW 83            | MW 83            | MW 84            | MW 85            | MW 86            | MW 88            |
|--------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                   |      | GW-102316-TW-025 | GW-102216-TW-017 | GW-102216-TW-018 | GW-102416-TW-034 | GW-102416-TW-032 | GW-102216-TW-013 | GW-102216-TW-014 |
| Sample Date:                   |      | 10/23/2016       | 10/22/2016       | 10/22/2016       | 10/24/2016       | 10/24/2016       | 10/22/2016       | 10/22/2016       |
| Duplicate                      |      |                  |                  |                  |                  |                  |                  |                  |
| Parameters                     | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Metals</b>                  |      |                  |                  |                  |                  |                  |                  |                  |
| Manganese (dissolved)          | µg/L | --               | --               | --               | --               | 170              | --               | --               |
| <b>General Chemistry</b>       |      |                  |                  |                  |                  |                  |                  |                  |
| Alkalinity, bicarbonate        | mg/L | --               | --               | --               | --               | 340              | --               | --               |
| Alkalinity, carbonate          | mg/L | --               | --               | --               | --               | 5.0 U            | --               | --               |
| Chloride                       | mg/L | --               | --               | --               | --               | 120              | --               | --               |
| Dissolved organic carbon (DOC) | mg/L | --               | --               | --               | --               | 1.5              | --               | --               |
| Hardness                       | mg/L | --               | --               | --               | --               | 460              | --               | --               |
| Nitrate (as N)                 | mg/L | --               | --               | --               | --               | 0.10 U           | --               | --               |
| Nitrite (as N)                 | mg/L | --               | --               | --               | --               | 0.10 U           | --               | --               |
| Sulfate                        | mg/L | --               | --               | --               | --               | 69               | --               | --               |
| Sulfide                        | mg/L | --               | --               | --               | --               | 3.0 U            | --               | --               |
| Total organic carbon (TOC)     | mg/L | --               | --               | --               | --               | 1.5              | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                                         |      | MW 88            | MW-2             | MW-4             | MW89-11          | MW89-11          | MW97R-15         | Pond Intake      |
|------------------------------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                                         |      | GW-102216-TW-015 | GW-102416-TW-029 | GW-102416-TW-031 | GW-102516-TW-039 | GW-102516-TW-040 | GW-102516-TW-037 | SW-071916-TP-001 |
| Sample Date:                                         |      | 10/22/2016       | 10/24/2016       | 10/24/2016       | 10/25/2016       | 10/25/2016       | 10/25/2016       | 07/19/2016       |
| Duplicate                                            |      |                  |                  |                  |                  |                  |                  |                  |
| Parameters                                           | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Volatile Organic Compounds</b>                    |      |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1-Trichloroethane                                | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.9              | 1.9              | 1.0 U            | 1.7 U            |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| 1,1,2-Trichloroethane                                | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| 1,1-Dichloroethane                                   | µg/L | 1.0 U            | 1.0 U            | 330 J            | 1.0 U            | 1.0 U            | 1.0 U            | 2.8              |
| 1,1-Dichloroethene                                   | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| 1,2-Dichloroethane                                   | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| 1,2-Dichloropropane                                  | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             | 10 U             | 17 U             |
| 2-Hexanone                                           | µg/L | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             | 10 U             | 17 U             |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             | 10 U             | 17 U             |
| Acetone                                              | µg/L | 10 U             | 10 U             | 5600 U           | 10 U             | 10 U             | 10 U             | 17 U             |
| Benzene                                              | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Bromodichloromethane                                 | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Bromoform                                            | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Bromomethane (Methyl bromide)                        | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Carbon disulfide                                     | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Carbon tetrachloride                                 | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Chlorobenzene                                        | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Chloroethane                                         | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Chloroform (Trichloromethane)                        | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Chloromethane (Methyl chloride)                      | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| cis-1,2-Dichloroethene                               | µg/L | 1.0 U            | 1.0 U            | 7900             | 0.30 J           | 1.0 U            | 1.2              | 55               |
| cis-1,3-Dichloropropene                              | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Dibromochloromethane                                 | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Ethylbenzene                                         | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Methylene chloride                                   | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Styrene                                              | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Tetrachloroethene                                    | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Toluene                                              | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| trans-1,2-Dichloroethene                             | µg/L | 1.0 U            | 1.0 U            | 200 J            | 1.0 U            | 1.0 U            | 1.0 U            | 1.6 J            |
| trans-1,3-Dichloropropene                            | µg/L | 1.0 U            | 1.0 U            | 560 U            | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Trichloroethene                                      | µg/L | 1.0 U            | 1.0 U            | 1700             | 1.0 U            | 1.0 U            | 1.0 U            | 1.7 U            |
| Vinyl chloride                                       | µg/L | 1.8              | 1.0 U            | 630              | 1.0 U            | 1.0 U            | 1.0 U            | 4.9              |
| Xylenes (total)                                      | µg/L | 2.0 U            | 2.0 U            | 1100 U           | 2.0 U            | 2.0 U            | 2.0 U            | 3.3 U            |
| <b>Dissolved Gases</b>                               |      |                  |                  |                  |                  |                  |                  |                  |
| Ethane                                               | µg/L | --               | 0.50 U           | 0.67             | 0.50 U           | 0.50 U           | --               | --               |
| Ethene                                               | µg/L | --               | 0.50 U           | 15               | 0.50 U           | 0.50 U           | --               | --               |
| Methane                                              | µg/L | --               | 3.2              | 11               | 2.3              | 2.4              | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:                   |      | MW 88            | MW-2             | MW-4             | MW89-11          | MW89-11          | MW97R-15         | Pond Intake      |
|--------------------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample Name:                   |      | GW-102216-TW-015 | GW-102416-TW-029 | GW-102416-TW-031 | GW-102516-TW-039 | GW-102516-TW-040 | GW-102516-TW-037 | SW-071916-TP-001 |
| Sample Date:                   |      | 10/22/2016       | 10/24/2016       | 10/24/2016       | 10/25/2016       | 10/25/2016       | 10/25/2016       | 07/19/2016       |
|                                |      | Duplicate        |                  |                  |                  | Duplicate        |                  |                  |
| Parameters                     | Unit |                  |                  |                  |                  |                  |                  |                  |
| <b>Metals</b>                  |      |                  |                  |                  |                  |                  |                  |                  |
| Manganese (dissolved)          | µg/L | --               | 91               | 160              | 15 U             | 15 U             | --               | --               |
| <b>General Chemistry</b>       |      |                  |                  |                  |                  |                  |                  |                  |
| Alkalinity, bicarbonate        | mg/L | --               | 370              | 350              | 410              | 410              | --               | --               |
| Alkalinity, carbonate          | mg/L | --               | 5.0 U            | 5.0 U            | 5.0 U            | 5.0 U            | --               | --               |
| Chloride                       | mg/L | --               | 17               | 56               | 38               | 39               | --               | --               |
| Dissolved organic carbon (DOC) | mg/L | --               | 2.7              | 1.6              | 1.3              | 1.3              | --               | --               |
| Hardness                       | mg/L | --               | 450              | 480              | 500              | 500              | --               | --               |
| Nitrate (as N)                 | mg/L | --               | 0.98             | 0.10 U           | 2.9              | 2.9              | --               | --               |
| Nitrite (as N)                 | mg/L | --               | 0.10 U           | 0.10 U           | 0.10 U           | 0.10 U           | --               | --               |
| Sulfate                        | mg/L | --               | 47               | 72               | 57               | 56               | --               | --               |
| Sulfide                        | mg/L | --               | 3.0 U            | 3.0 U            | 3.0 U            | 3.0 U            | --               | --               |
| Total organic carbon (TOC)     | mg/L | --               | 2.5              | 1.6              | 1.3              | 1.3              | --               | --               |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Location ID:<br>Sample Name:<br>Sample Date:         |      | Pond Intake<br>SW-102416-TW-001<br>10/24/2016 | Pond Intake<br>SW-102416-TW-002<br>10/24/2016 | Pond North<br>SW-071916-TP-002<br>07/19/2016 | Pond North<br>SW-071916-TP-003<br>07/19/2016 | Pond North<br>SW-102416-TW-003<br>10/24/2016 |
|------------------------------------------------------|------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
|                                                      |      | Duplicate                                     |                                               | Duplicate                                    |                                              |                                              |
| Parameters                                           | Unit |                                               |                                               |                                              |                                              |                                              |
| <b>Volatile Organic Compounds</b>                    |      |                                               |                                               |                                              |                                              |                                              |
| 1,1,1-Trichloroethane                                | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 1,1,2,2-Tetrachloroethane                            | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 1,1,2-Trichloroethane                                | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 1,1-Dichloroethane                                   | µg/L | 1.8                                           | 1.8 J                                         | 4.5                                          | 4.1                                          | 26 J                                         |
| 1,1-Dichloroethene                                   | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 1,2-Dichloroethane                                   | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 1,2-Dichloropropane                                  | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| 2-Butanone (Methyl ethyl ketone) (MEK)               | µg/L | 18 U                                          | 20 U                                          | 25 U                                         | 25 U                                         | 330 U                                        |
| 2-Hexanone                                           | µg/L | 18 U                                          | 20 U                                          | 25 U                                         | 25 U                                         | 330 U                                        |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | µg/L | 18 U                                          | 20 U                                          | 25 U                                         | 25 U                                         | 330 U                                        |
| Acetone                                              | µg/L | 18 U                                          | 20 U                                          | 25 U                                         | 25 U                                         | 330 U                                        |
| Benzene                                              | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Bromodichloromethane                                 | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Bromoform                                            | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Bromomethane (Methyl bromide)                        | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Carbon disulfide                                     | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Carbon tetrachloride                                 | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Chlorobenzene                                        | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Chloroethane                                         | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Chloroform (Trichloromethane)                        | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Chloromethane (Methyl chloride)                      | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| cis-1,2-Dichloroethene                               | µg/L | 36                                            | 34                                            | 90                                           | 81                                           | 500                                          |
| cis-1,3-Dichloropropene                              | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Dibromochloromethane                                 | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Ethylbenzene                                         | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Methylene chloride                                   | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Styrene                                              | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Tetrachloroethene                                    | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Toluene                                              | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| trans-1,2-Dichloroethene                             | µg/L | 1.0 J                                         | 0.90 J                                        | 3.0                                          | 2.7                                          | 21 J                                         |
| trans-1,3-Dichloropropene                            | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Trichloroethene                                      | µg/L | 1.8 U                                         | 2.0 U                                         | 2.5 U                                        | 2.5 U                                        | 33 U                                         |
| Vinyl chloride                                       | µg/L | 3.1                                           | 2.9                                           | 6.4                                          | 6.2                                          | 33 U                                         |
| Xylenes (total)                                      | µg/L | 3.6 U                                         | 4.0 U                                         | 5.0 U                                        | 5.0 U                                        | 67 U                                         |
| <b>Dissolved Gases</b>                               |      |                                               |                                               |                                              |                                              |                                              |
| Ethane                                               | µg/L | --                                            | --                                            | --                                           | --                                           | --                                           |
| Ethene                                               | µg/L | --                                            | --                                            | --                                           | --                                           | --                                           |
| Methane                                              | µg/L | --                                            | --                                            | --                                           | --                                           | --                                           |

Table 2

**Analytical Results Summary**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

|                                | Location ID: | Pond Intake      | Pond Intake      | Pond North       | Pond North       | Pond North       |
|--------------------------------|--------------|------------------|------------------|------------------|------------------|------------------|
|                                | Sample Name: | SW-102416-TW-001 | SW-102416-TW-002 | SW-071916-TP-002 | SW-071916-TP-003 | SW-102416-TW-003 |
|                                | Sample Date: | 10/24/2016       | 10/24/2016       | 07/19/2016       | 07/19/2016       | 10/24/2016       |
|                                |              | Duplicate        |                  | Duplicate        |                  |                  |
| Parameters                     | Unit         |                  |                  |                  |                  |                  |
| Metals                         |              |                  |                  |                  |                  |                  |
| Manganese (dissolved)          | µg/L         | --               | --               | --               | --               | --               |
| General Chemistry              |              |                  |                  |                  |                  |                  |
| Alkalinity, bicarbonate        | mg/L         | --               | --               | --               | --               | --               |
| Alkalinity, carbonate          | mg/L         | --               | --               | --               | --               | --               |
| Chloride                       | mg/L         | --               | --               | --               | --               | --               |
| Dissolved organic carbon (DOC) | mg/L         | --               | --               | --               | --               | --               |
| Hardness                       | mg/L         | --               | --               | --               | --               | --               |
| Nitrate (as N)                 | mg/L         | --               | --               | --               | --               | --               |
| Nitrite (as N)                 | mg/L         | --               | --               | --               | --               | --               |
| Sulfate                        | mg/L         | --               | --               | --               | --               | --               |
| Sulfide                        | mg/L         | --               | --               | --               | --               | --               |
| Total organic carbon (TOC)     | mg/L         | --               | --               | --               | --               | --               |

## Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

-- - Not applicable

**Table 3**

**Analytical Methods**  
**Surface Waters and Site-Wide Groundwater Monitoring**  
**RACER Trust - MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| <b>Parameter</b> | <b>Method</b>             | <b>Matrix</b> | <b>Holding Time</b>                          |
|------------------|---------------------------|---------------|----------------------------------------------|
|                  |                           |               | <b>Collection<br/>to Analysis<br/>(Days)</b> |
| Volatiles        | SW-846 8260B <sup>1</sup> | Water         | 14                                           |

**Notes:**

- <sup>1</sup> - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks**  
**Surface Water and Site-Wide Groundwater Monitoring**  
**RACER Trust – MLK Boulevard Facility**  
**Anderson, Indiana**  
**July - October 2016**

| Parameter | Analyte            | Analysis Date<br>(mm/dd/yyyy) | Blank Result * | Sample ID        | Original Result | Qualified Result | Units |
|-----------|--------------------|-------------------------------|----------------|------------------|-----------------|------------------|-------|
| Volatiles | Methylene chloride | 10/28/2016                    | 87.7 J         | GW-102016-TW-003 | 86 J            | 100 U            | µg/l  |
|           |                    |                               | 219 J          | GW-102016-TW-004 | 210 J           | 250 U            | µg/l  |
|           |                    |                               | 175 J          | GW-102016-TW-005 | 180 J           | 200 U            | µg/l  |

## Notes:

- \* - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration

Table 5

**Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks  
Surface Water and Site-Wide Groundwater Monitoring  
RACER Trust – MLK Boulevard Facility  
Anderson, Indiana  
July - October 2016**

| Parameter | Rinse Blank ID   | Blank Date<br>(dd/mm/yyyy) | Analyte         | Blank<br>Result | Associated Sample ID | Original<br>Result | Qualified<br>Result | Units |
|-----------|------------------|----------------------------|-----------------|-----------------|----------------------|--------------------|---------------------|-------|
| Volatiles | EB-102116-TW-001 | 10/21/2016                 | Trichloroethene | 0.93 J          | GW-102116-TW-010     | 0.75 J             | 1.0 U               | µg/l  |

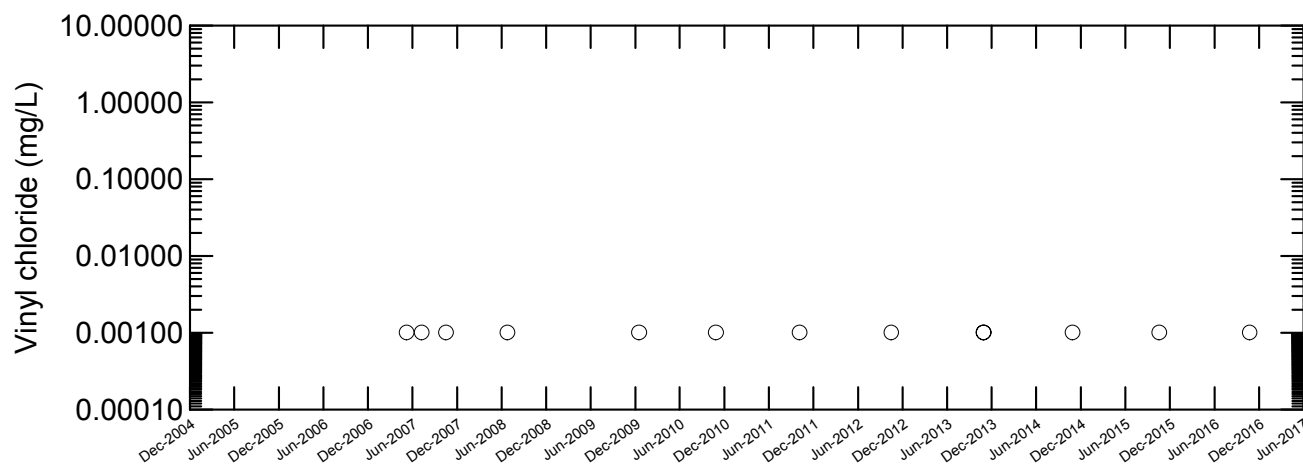
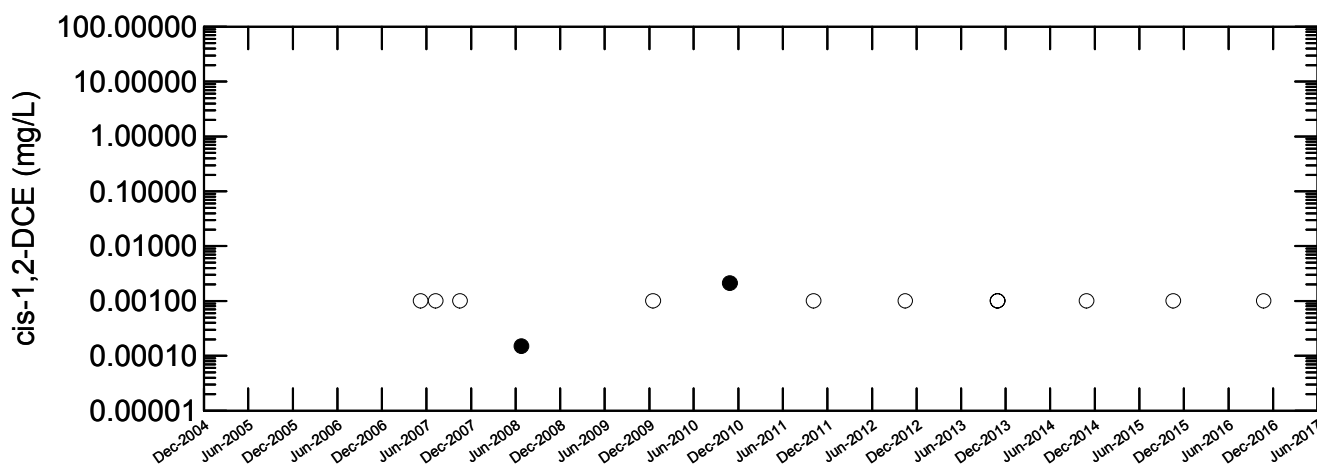
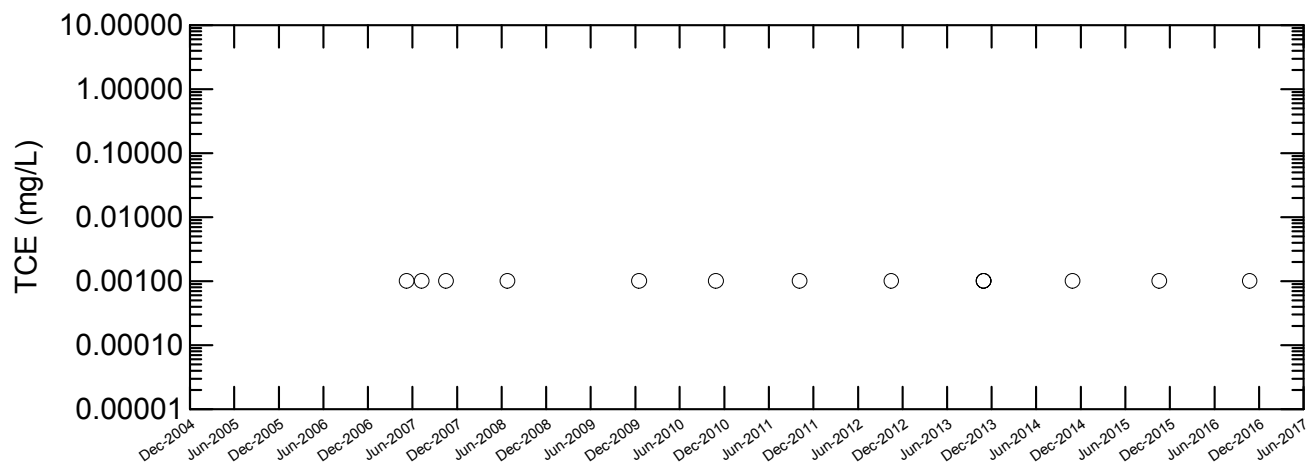
## Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated



## Appendix D

# Groundwater Data Analysis Tables and Concentration vs. Time Graphs



**Legend:**

- Detected Result
- Non-Detect Result

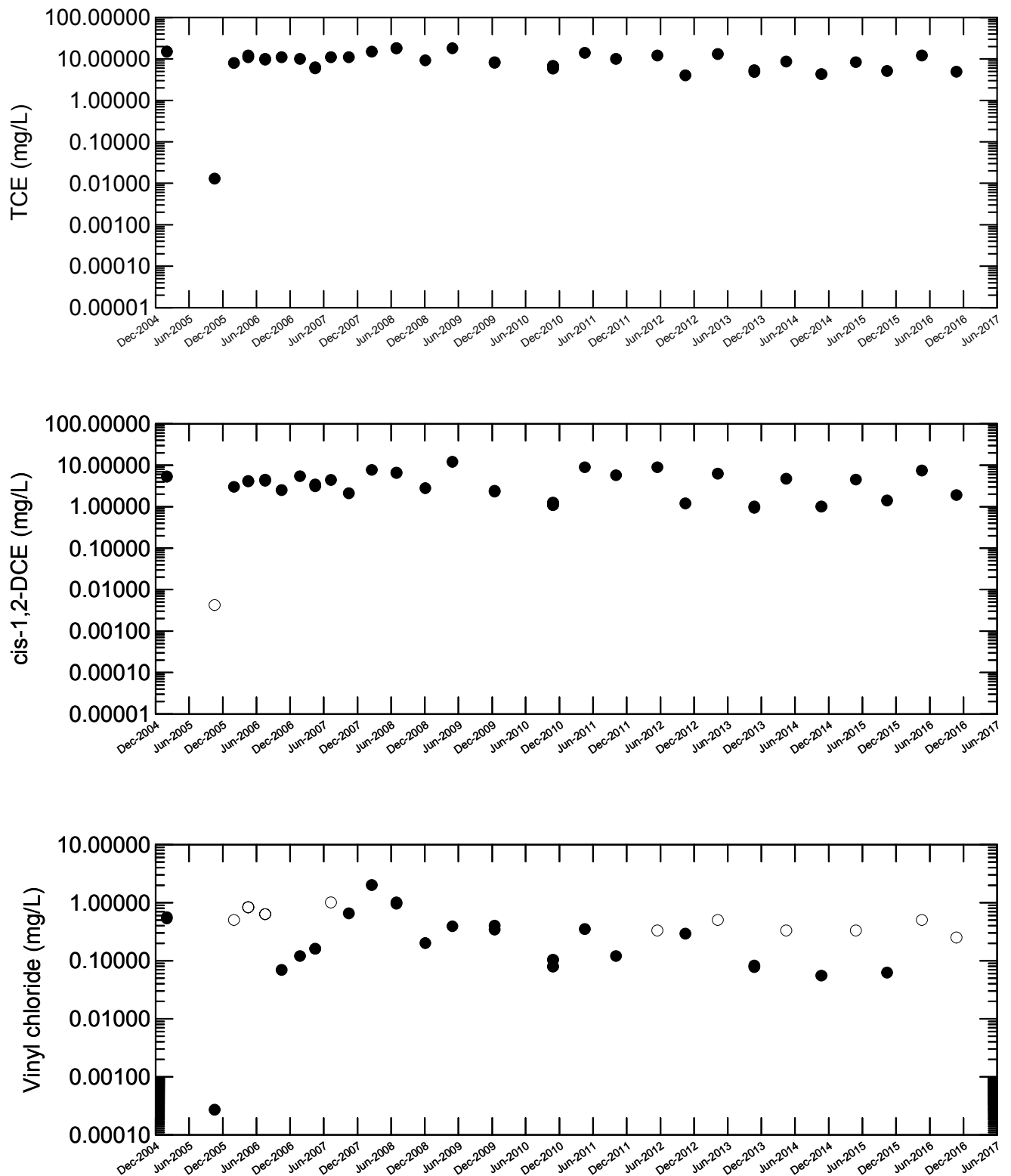
**Note:**

Non-detects are shown as the laboratory detection limit.

MW-2

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

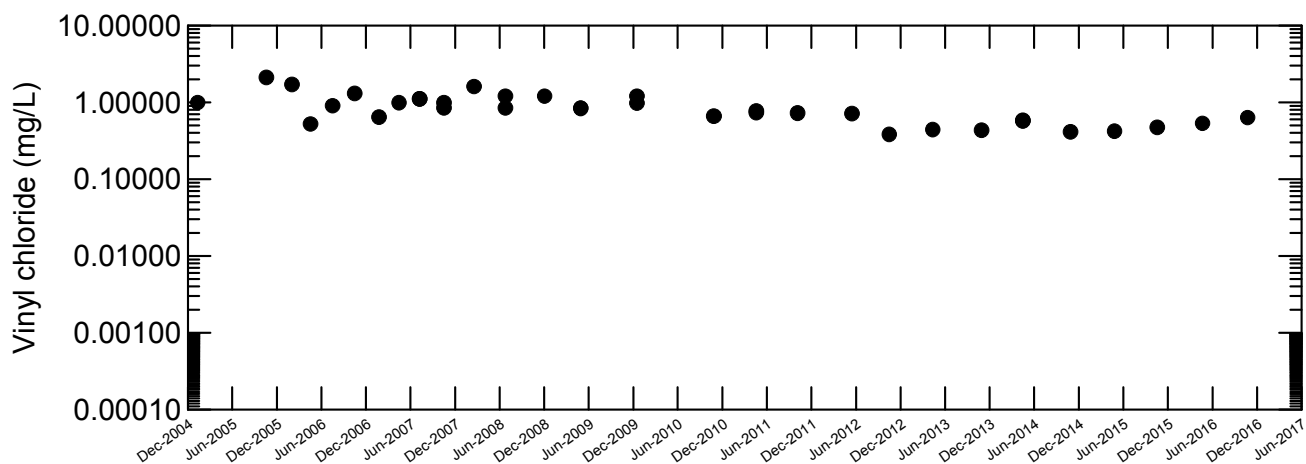
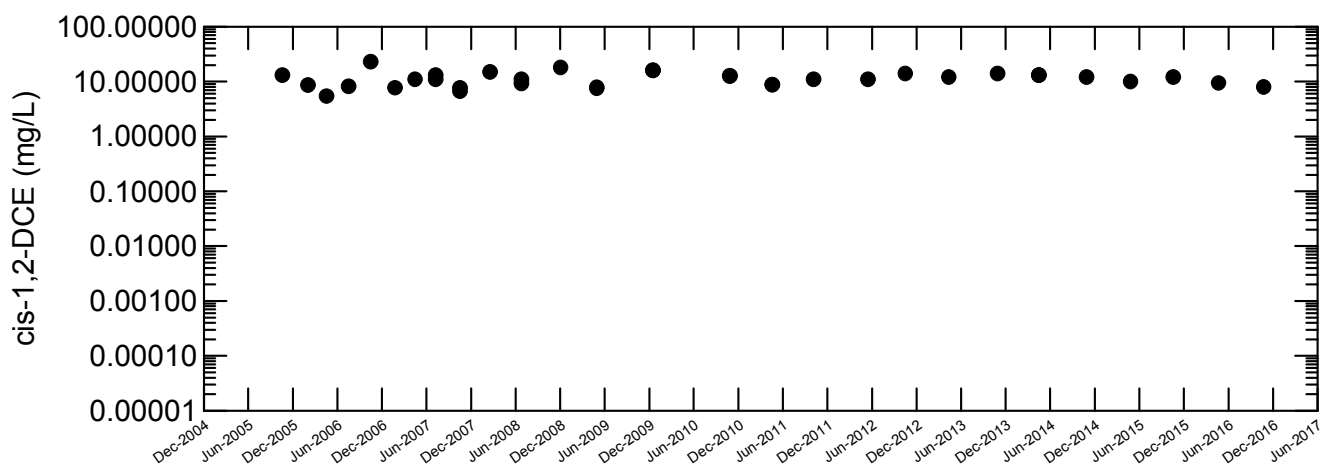
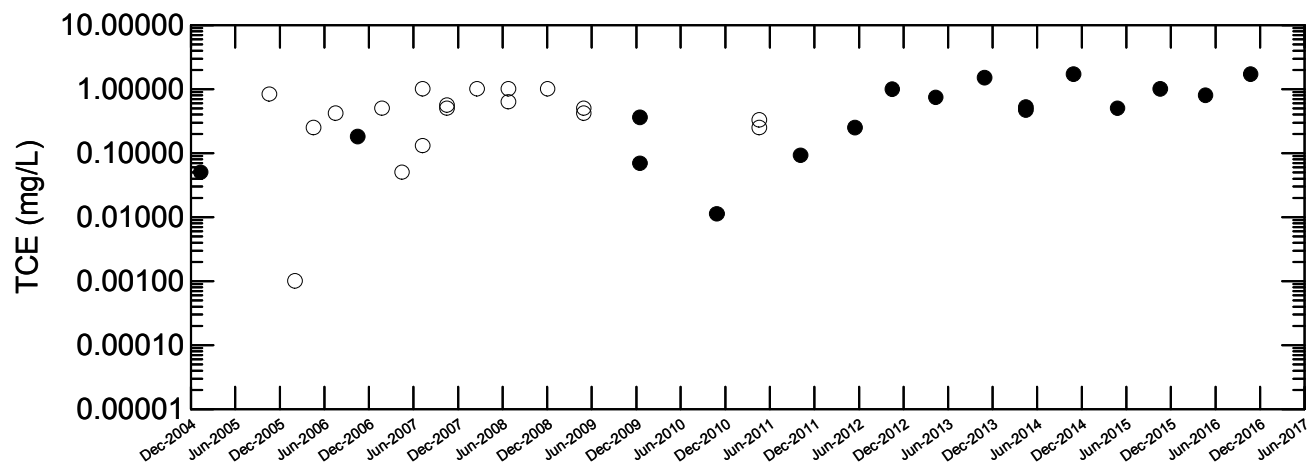
Note:

Non-detects are shown as the laboratory detection limit.

MW 3

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

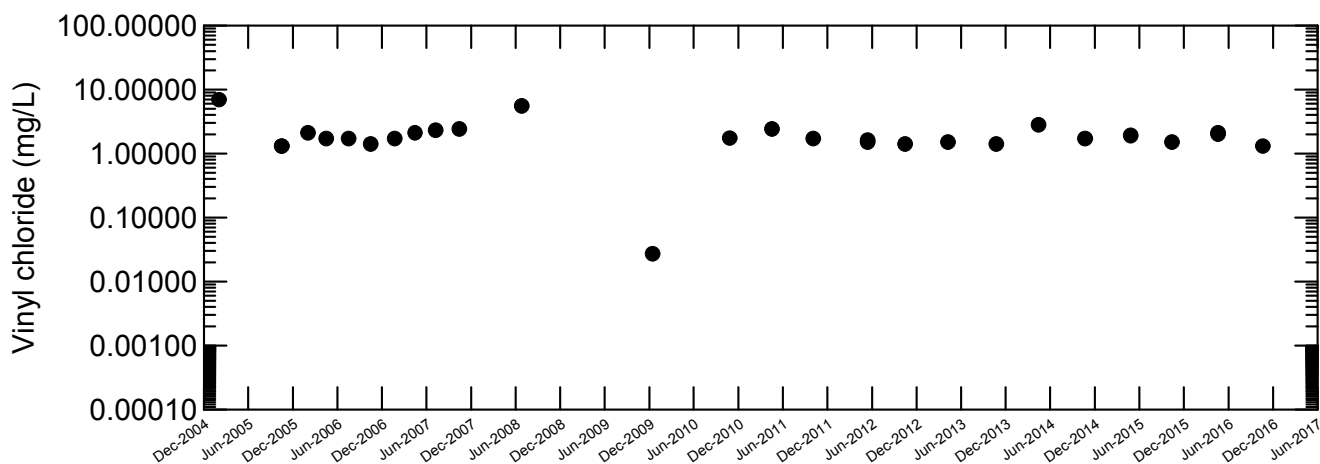
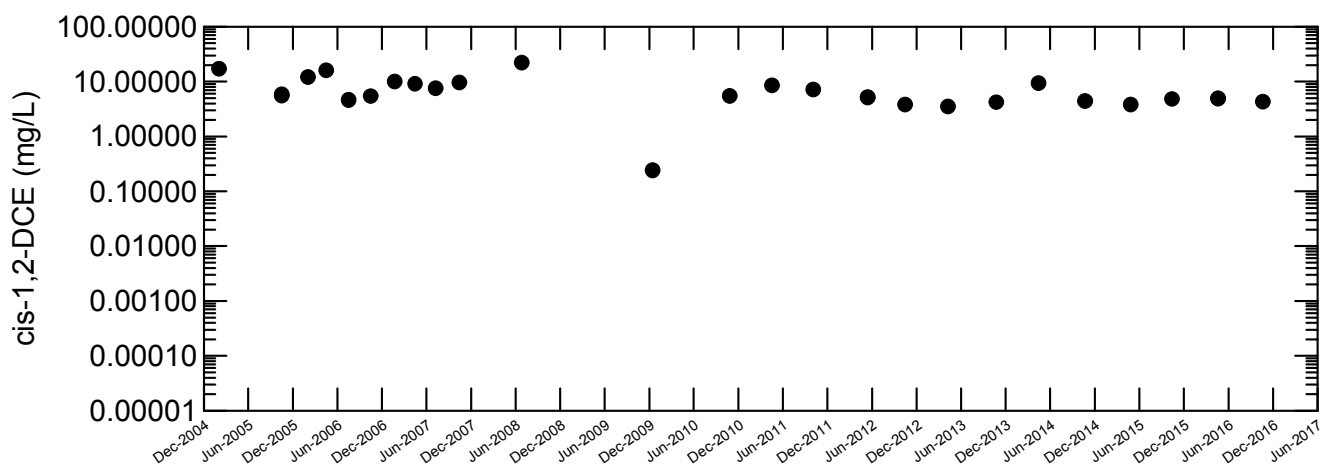
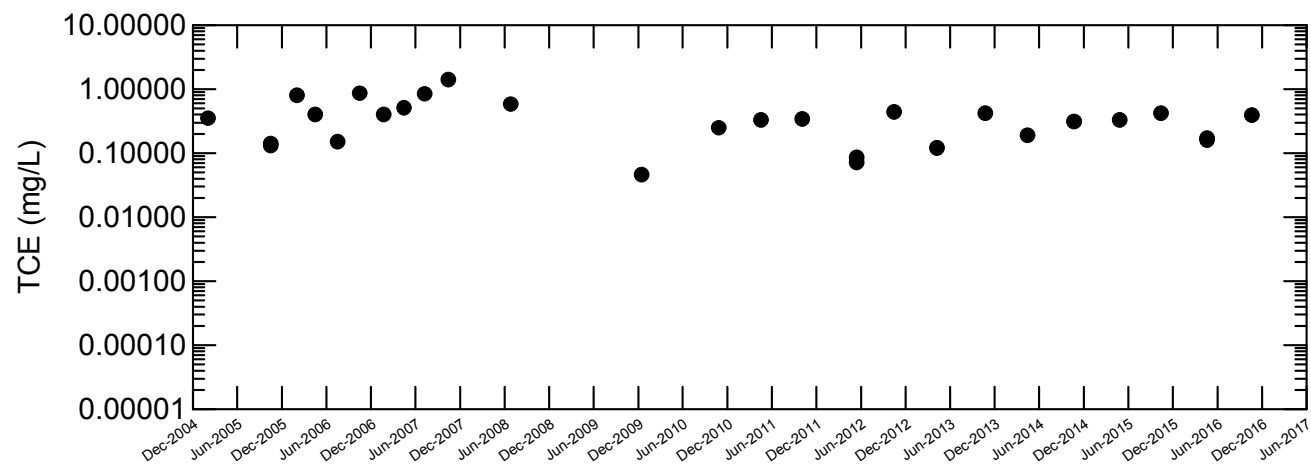
**Note:**

Non-detects are shown as the laboratory detection limit.

MW-4

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

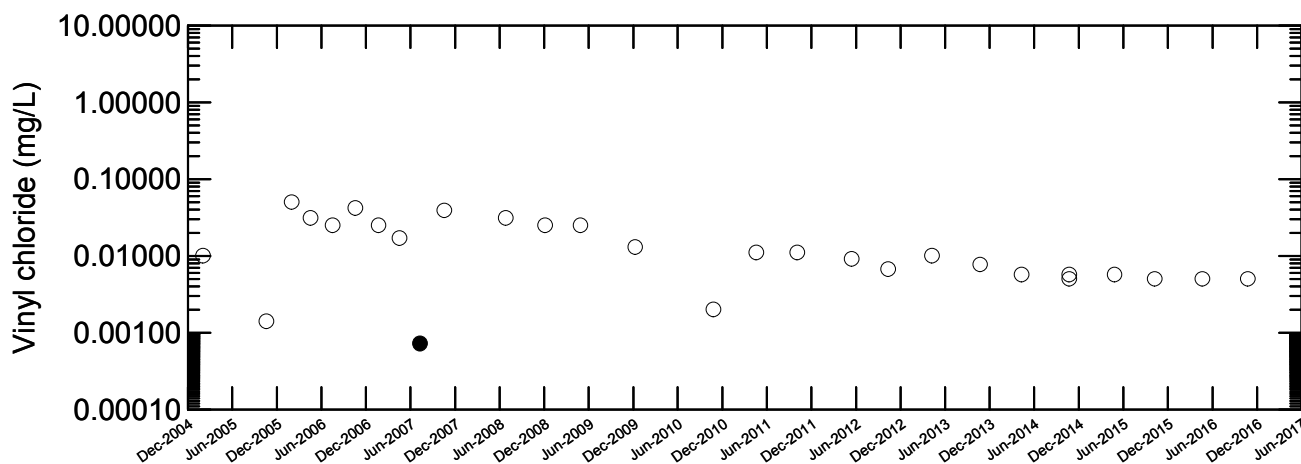
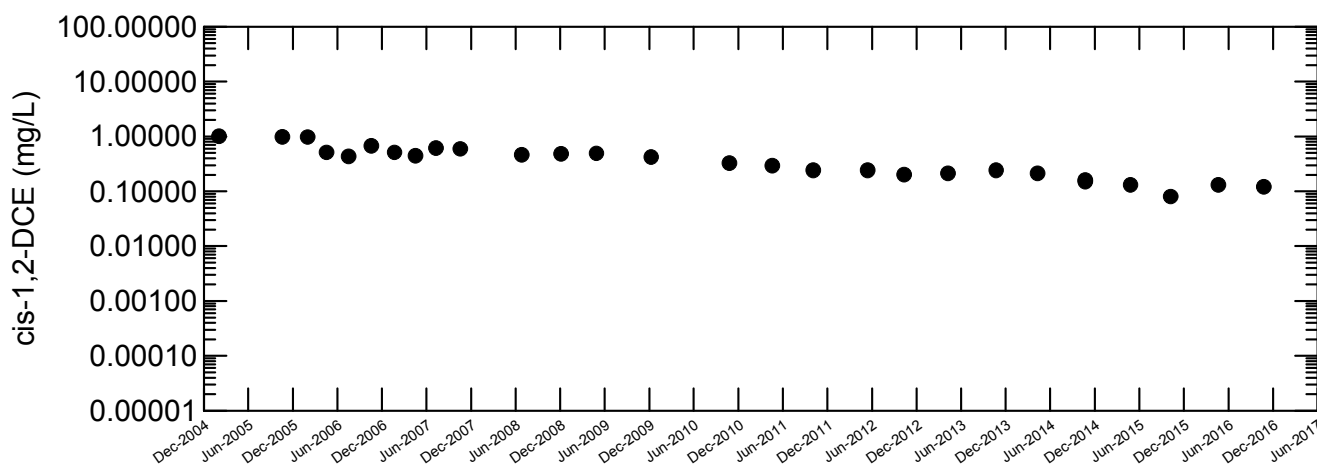
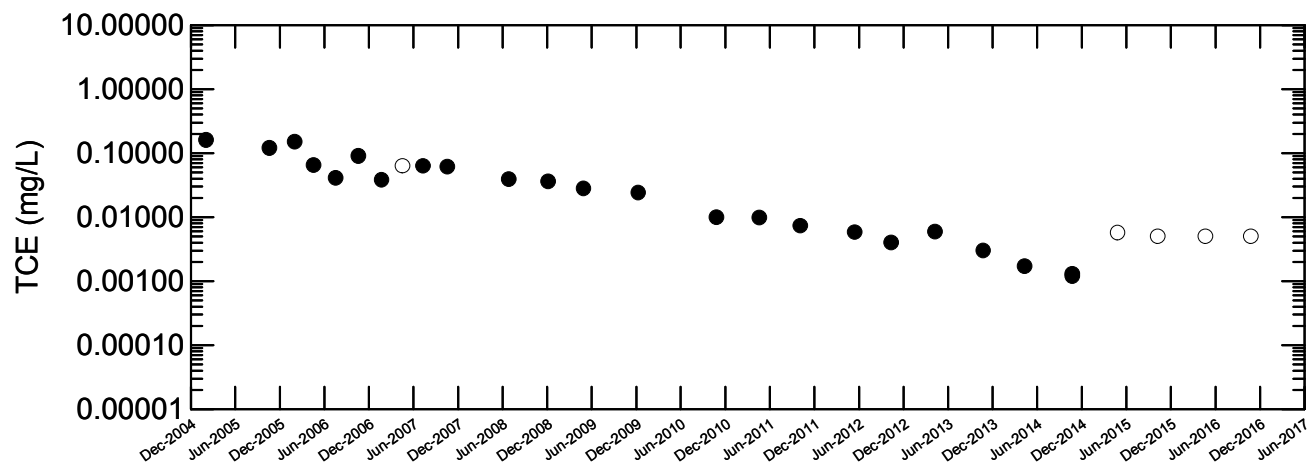
Note:

Non-detects are shown as the laboratory detection limit.

MW 8

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

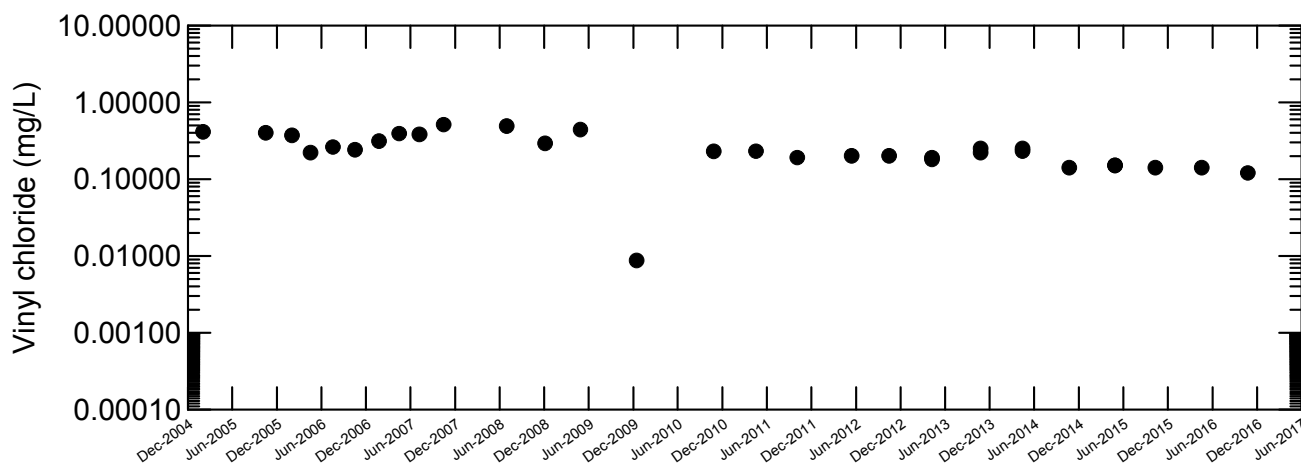
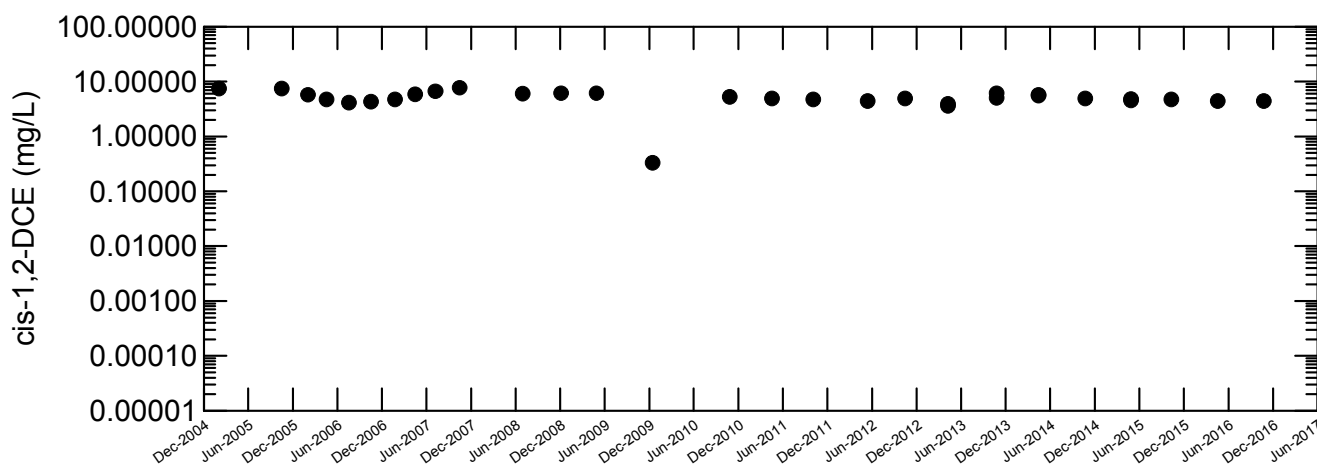
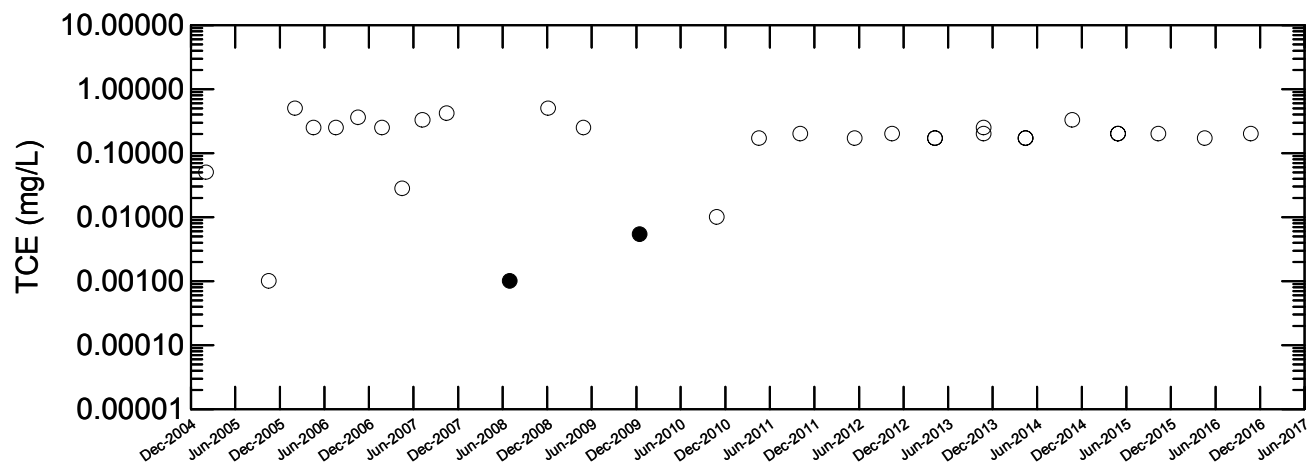
Note:

Non-detects are shown as the laboratory detection limit.

MW 12

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

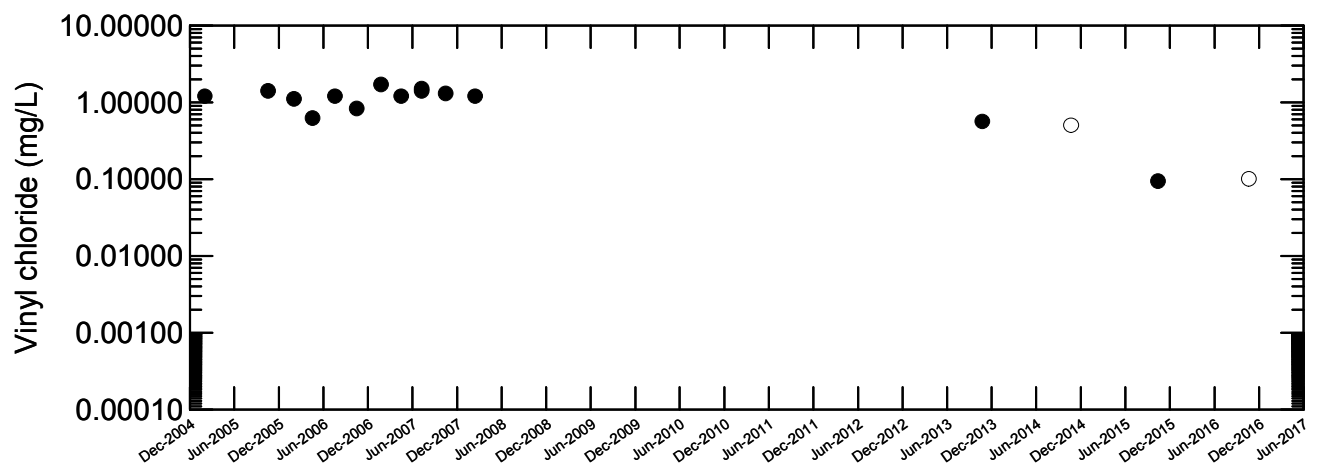
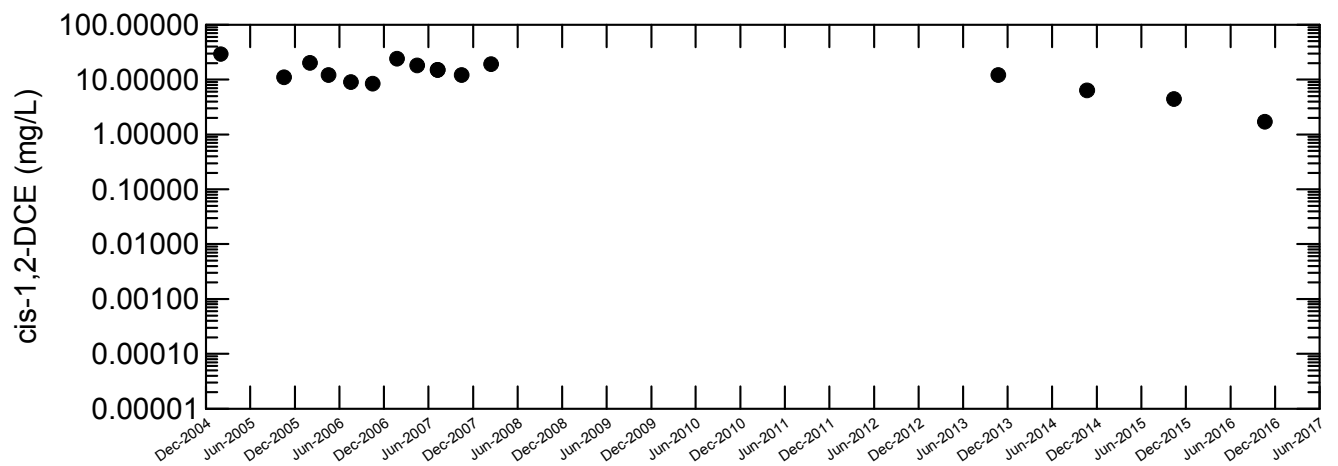
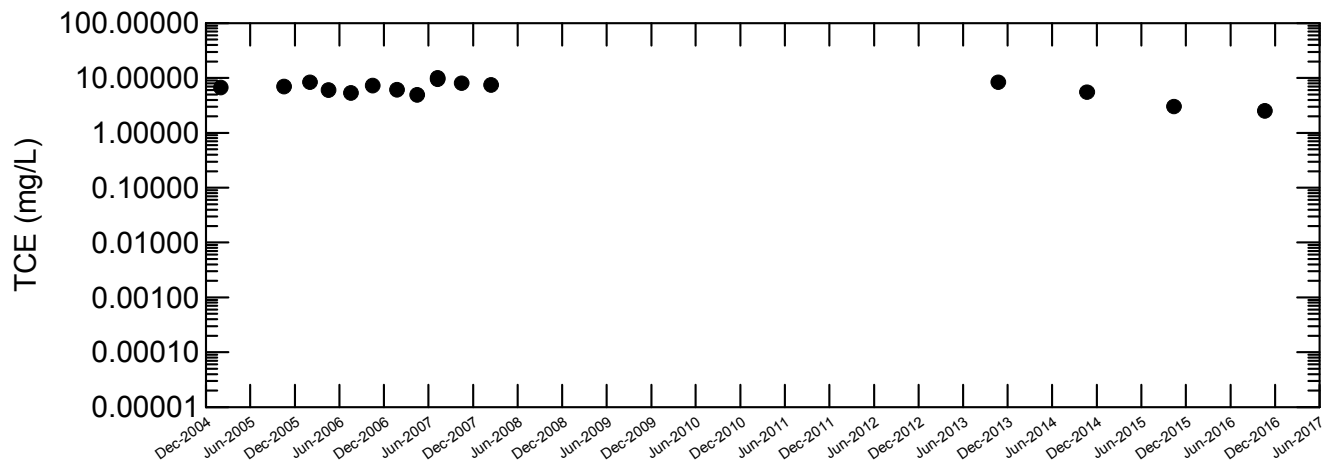
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 14

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

Note:

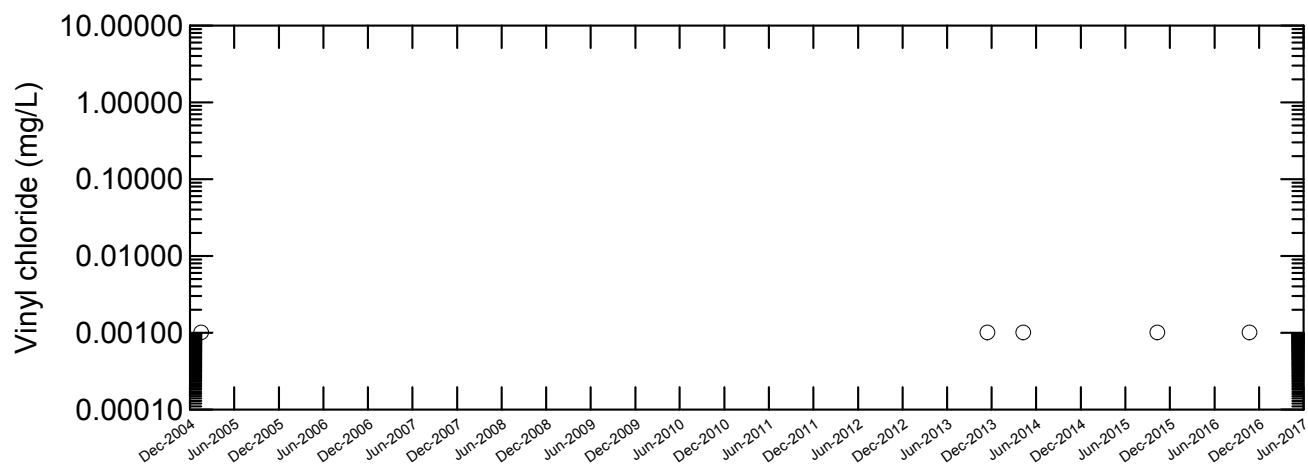
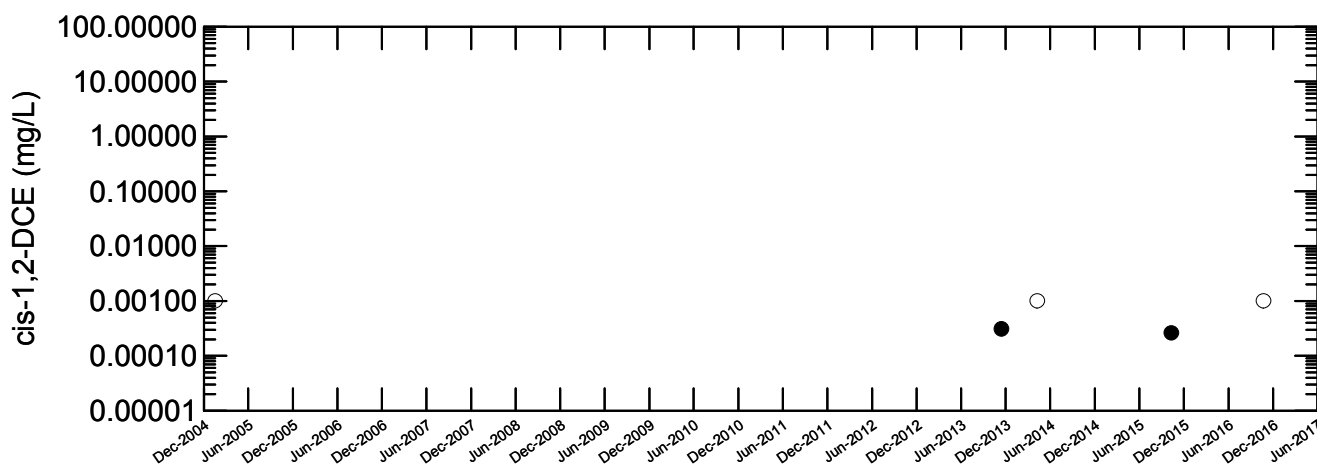
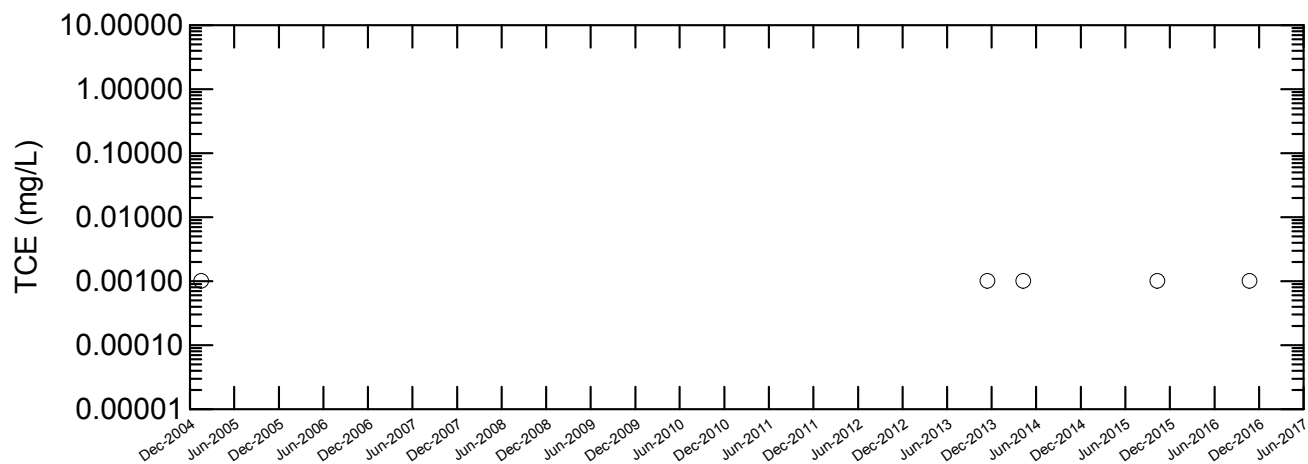
Non-detects are shown as the laboratory detection limit.

MW 15

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana







**Legend:**

- Detected Result
- Non-Detect Result

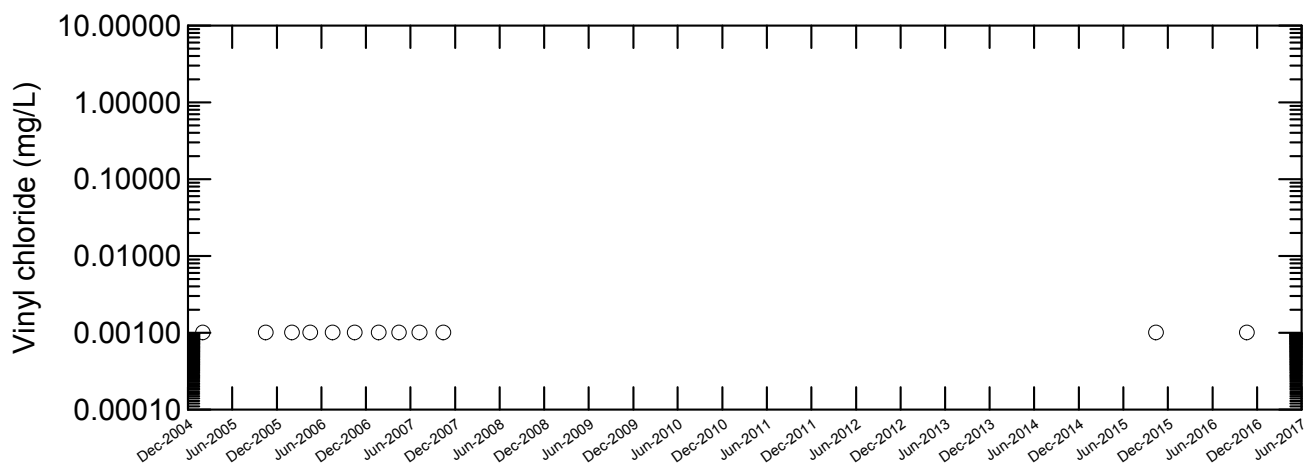
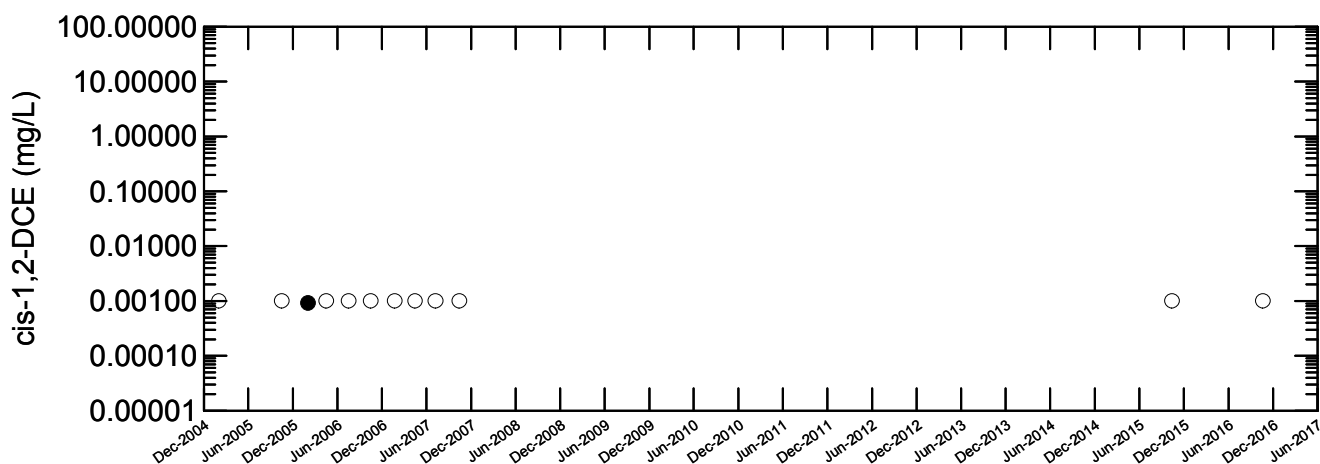
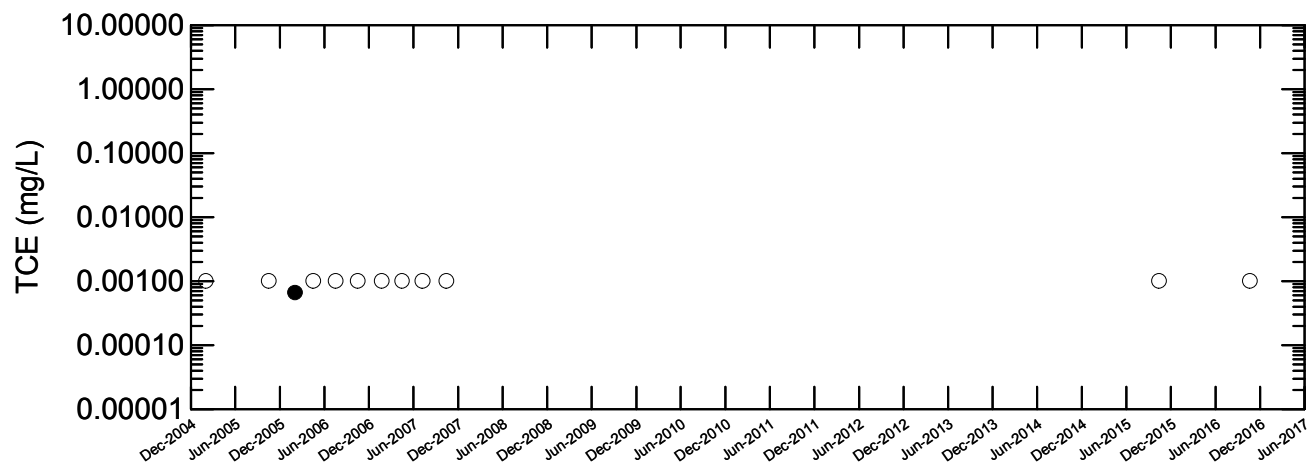
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 16

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

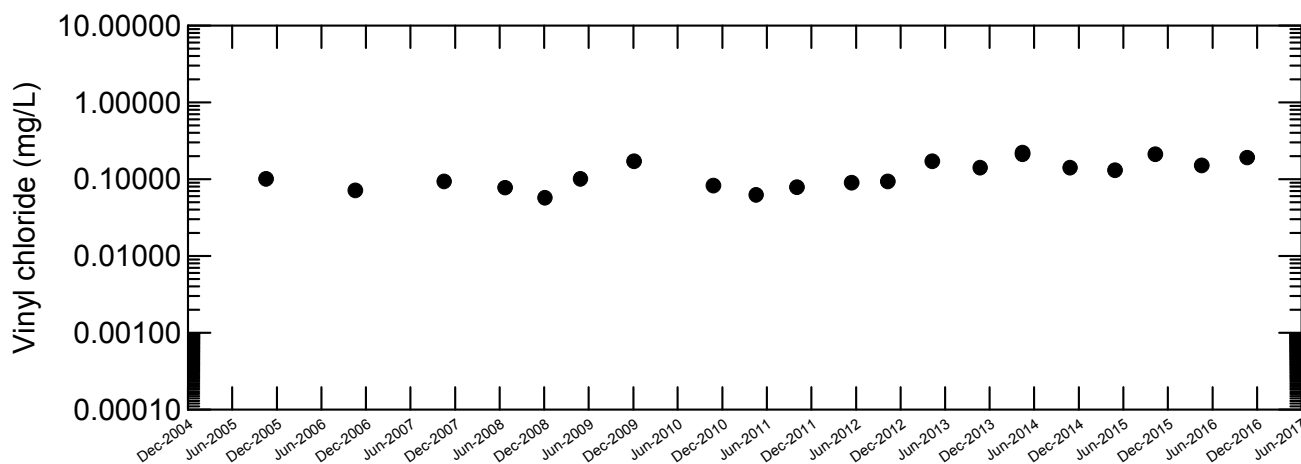
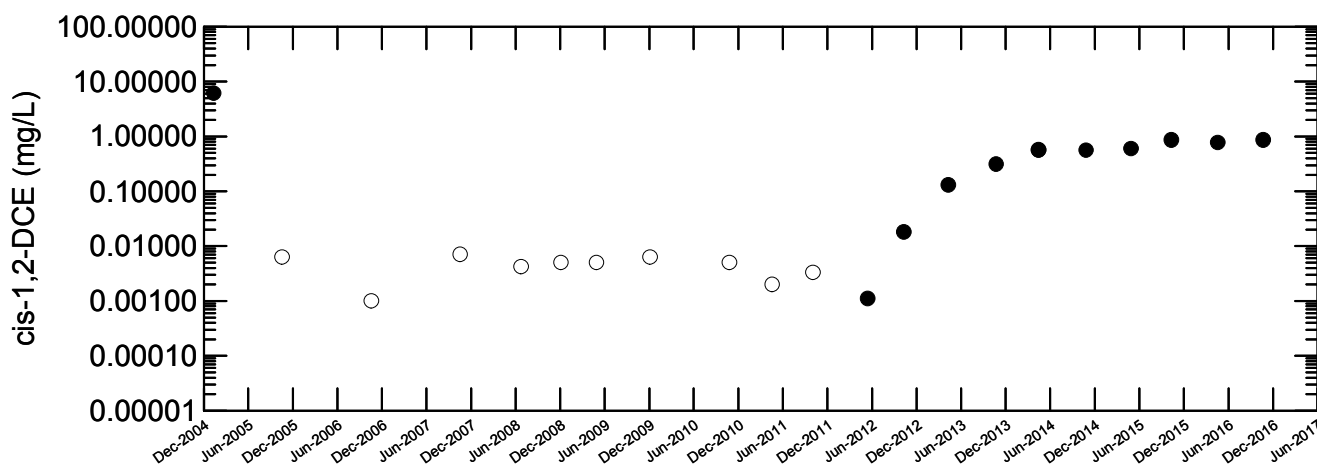
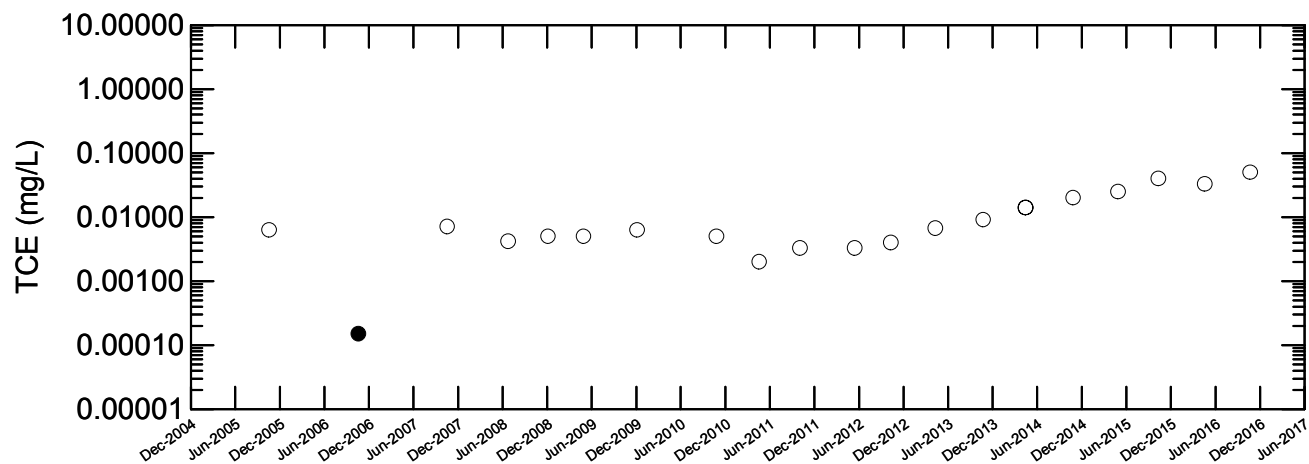
Note:

Non-detects are shown as the laboratory detection limit.

MW 21

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

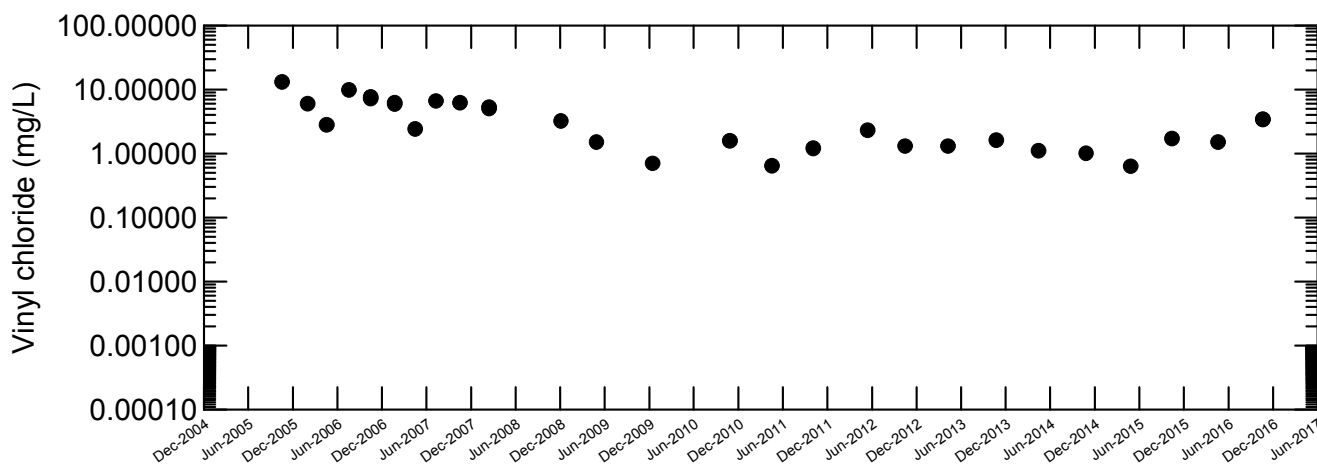
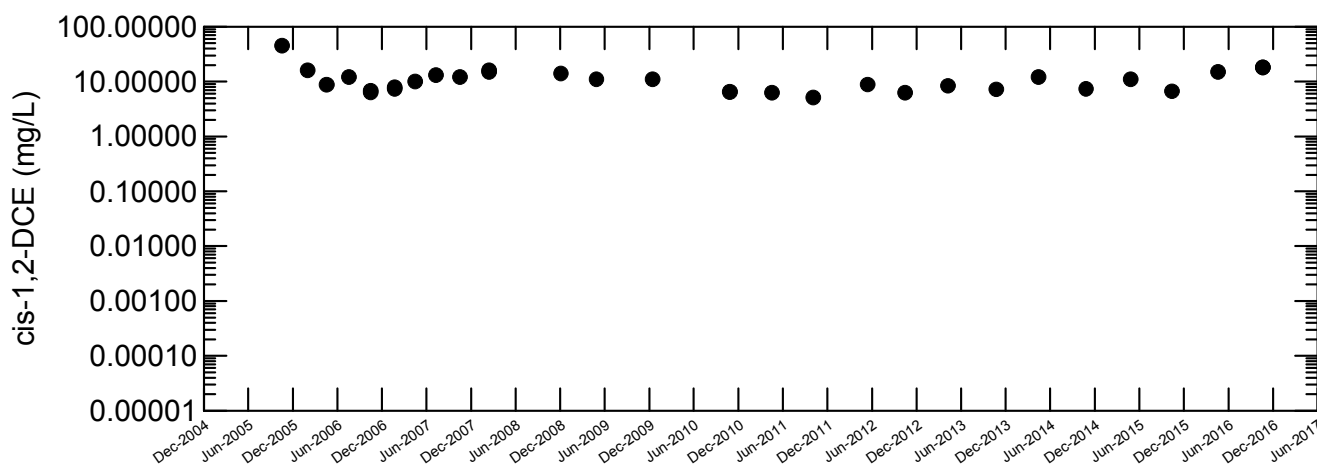
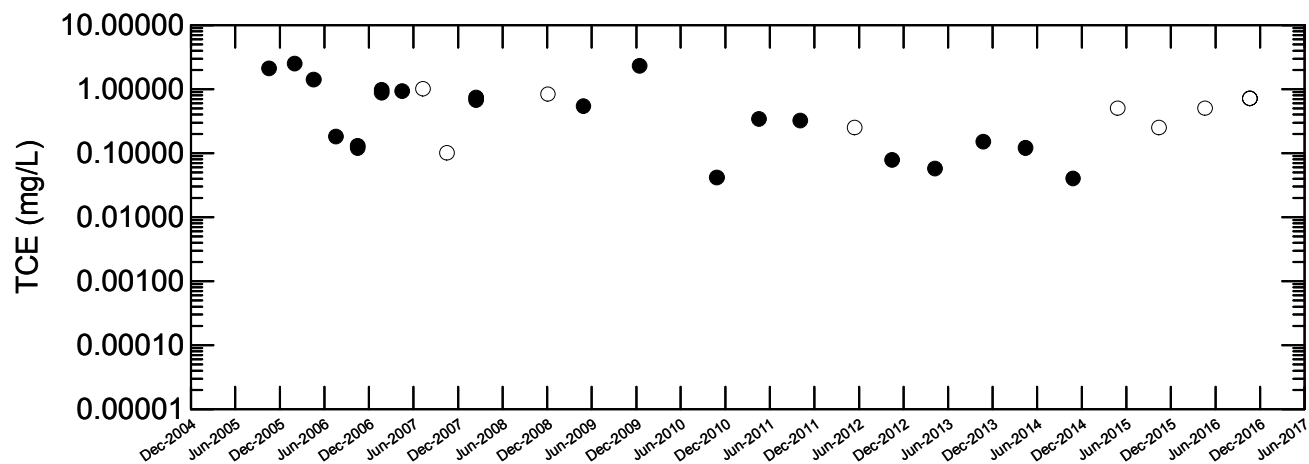
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 28

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

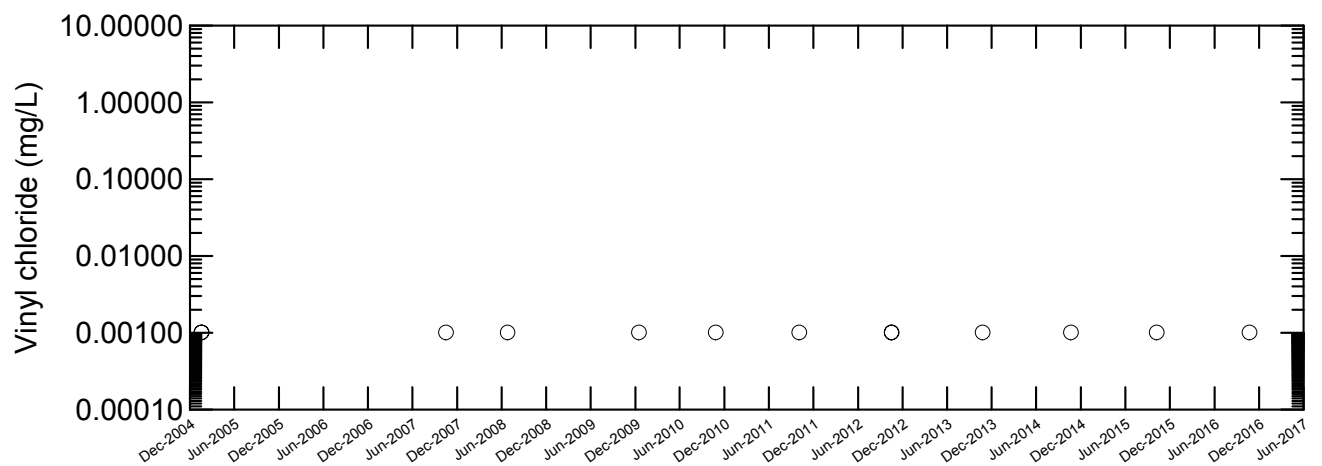
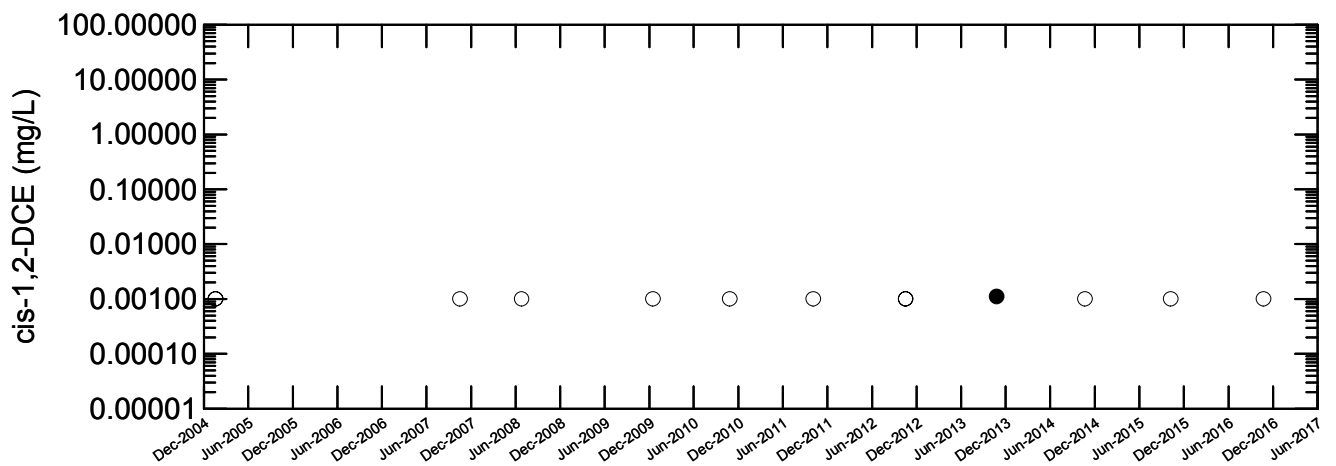
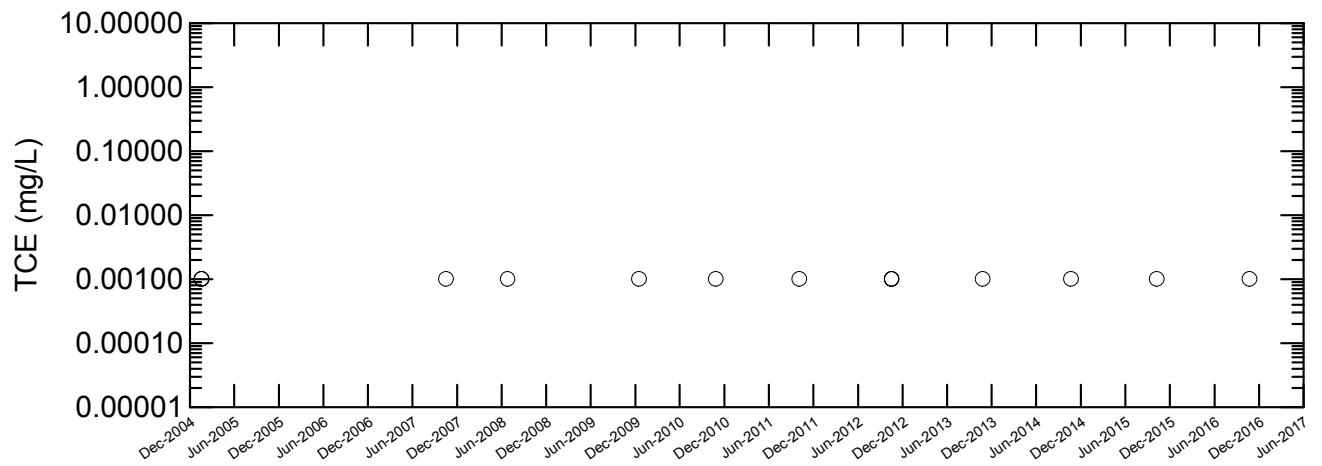
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 31R

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

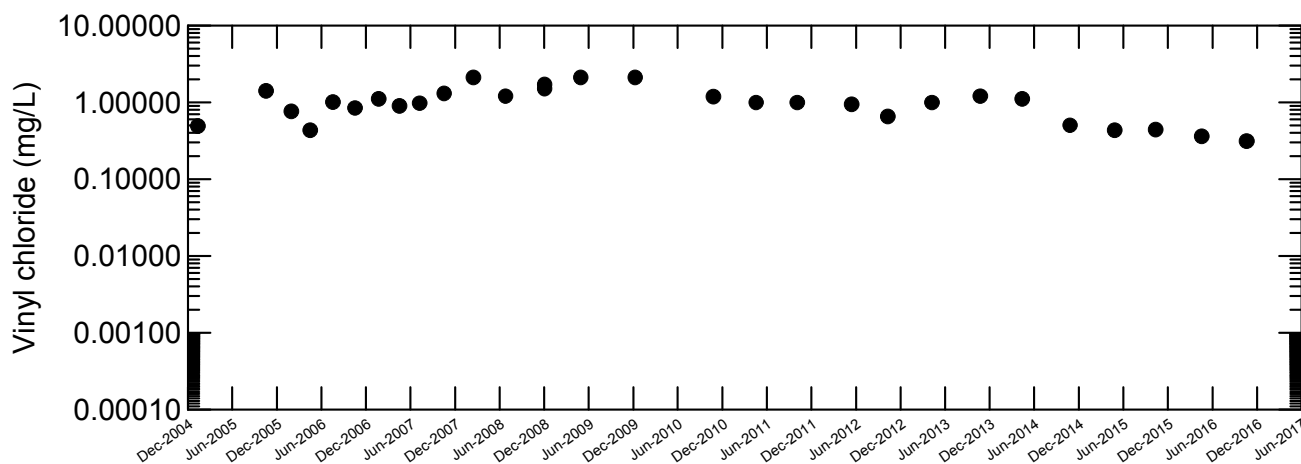
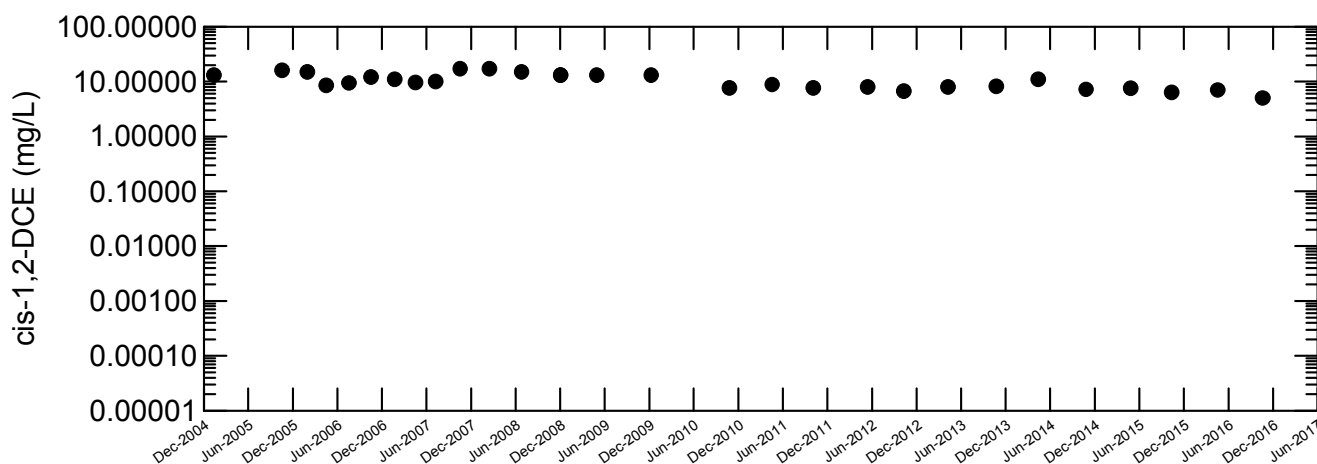
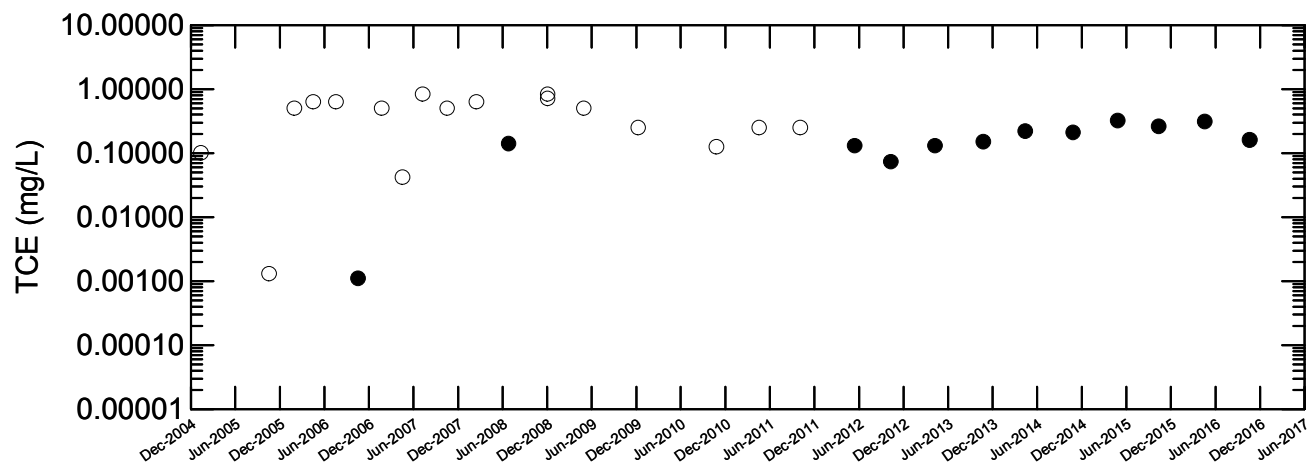
**Note:**

Non-detects are shown as the laboratory detection limit.

**MW 37**

**Concentration vs. Time Graphs**  
**2016 Annual Groundwater Monitoring Report**  
**2915 Martin Luther King Jr. Boulevard**  
**Anderson, Indiana**





**Legend:**

- Detected Result
- Non-Detect Result

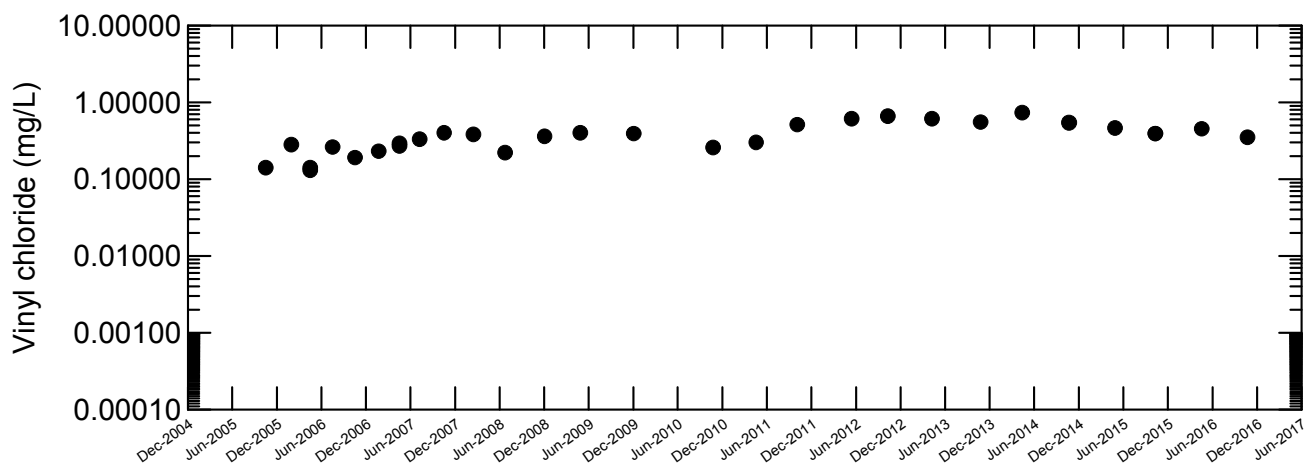
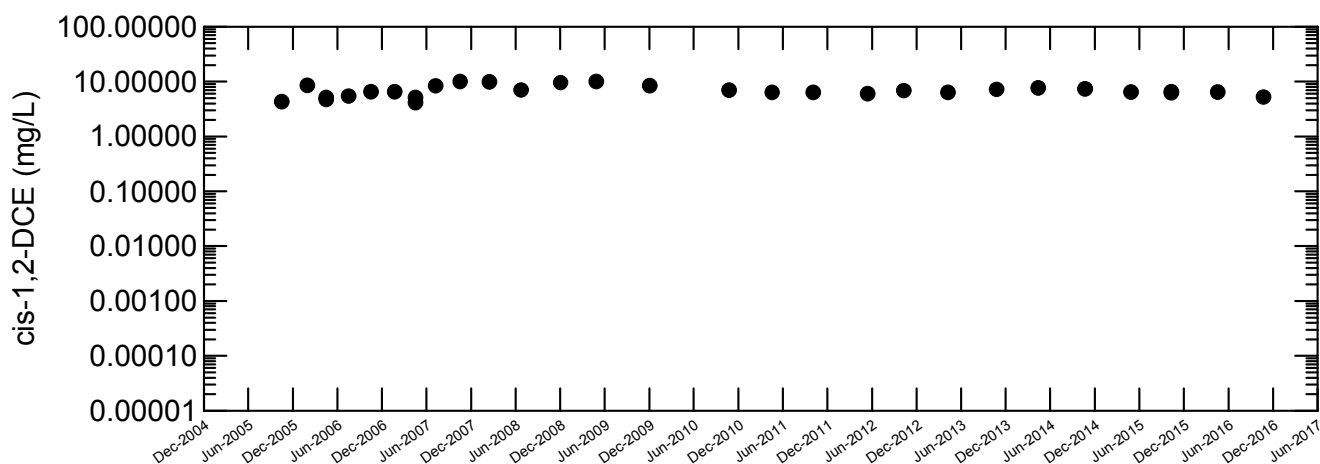
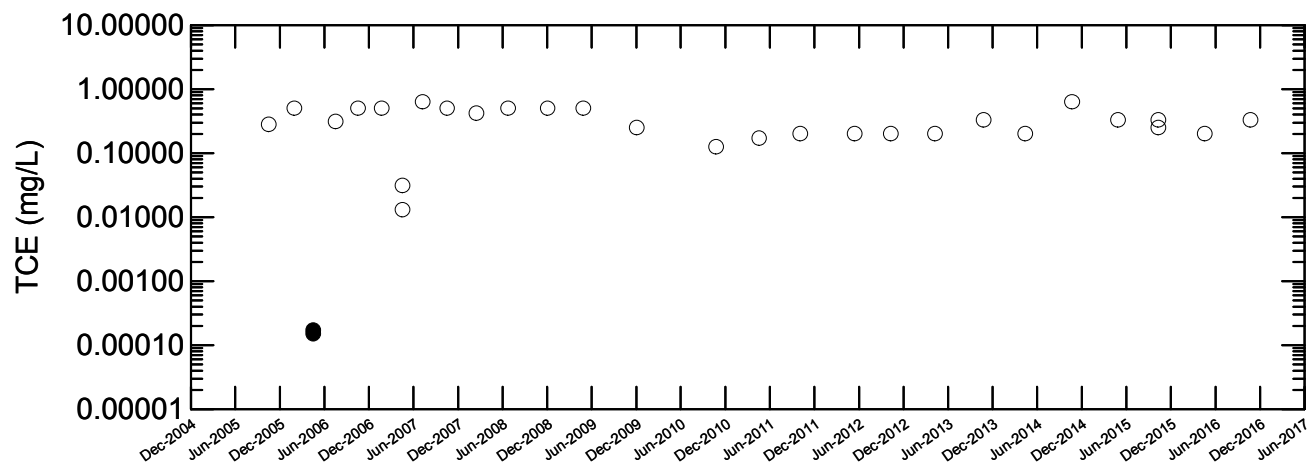
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 40

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

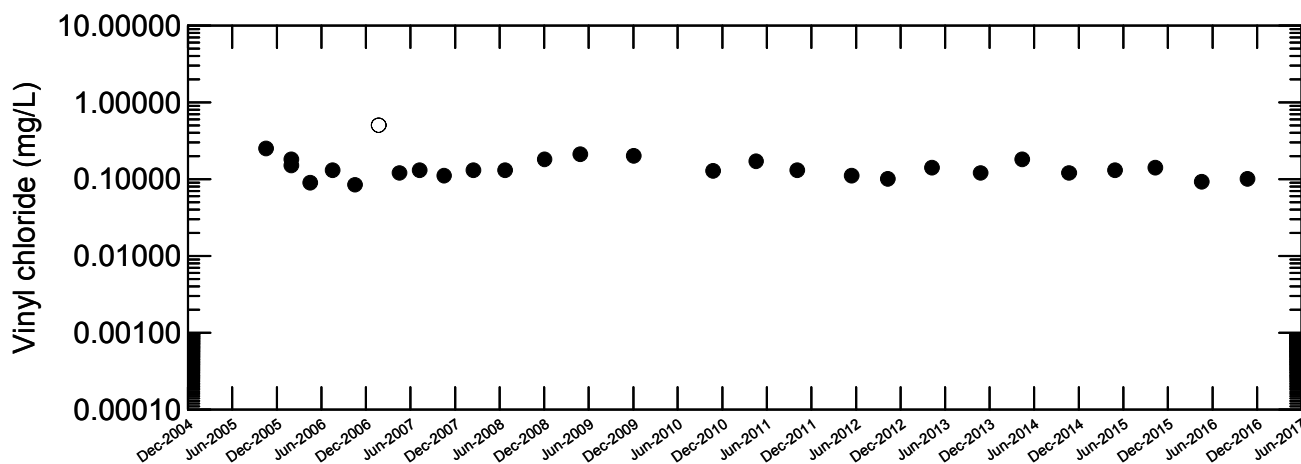
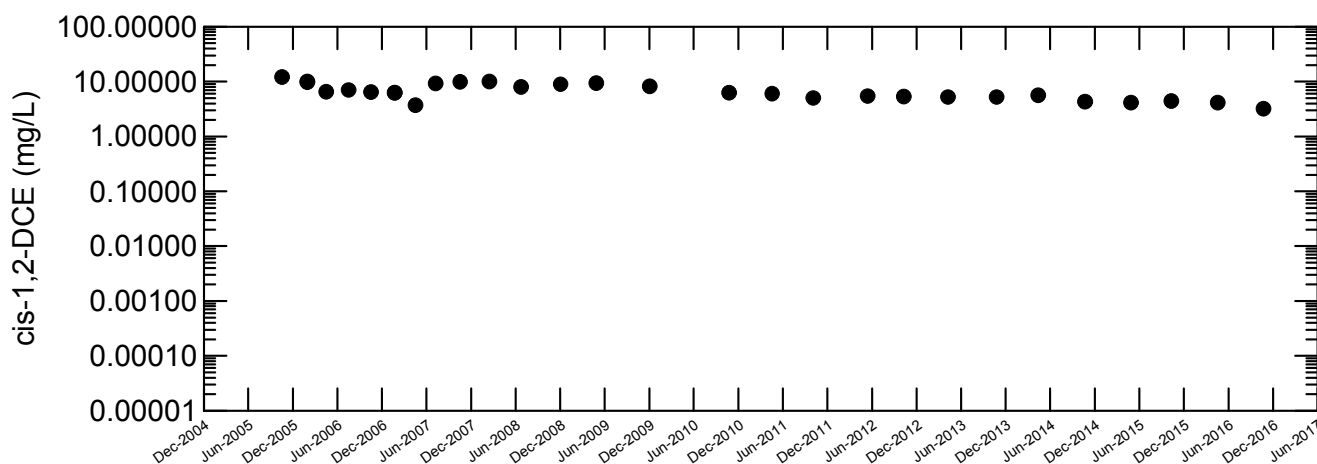
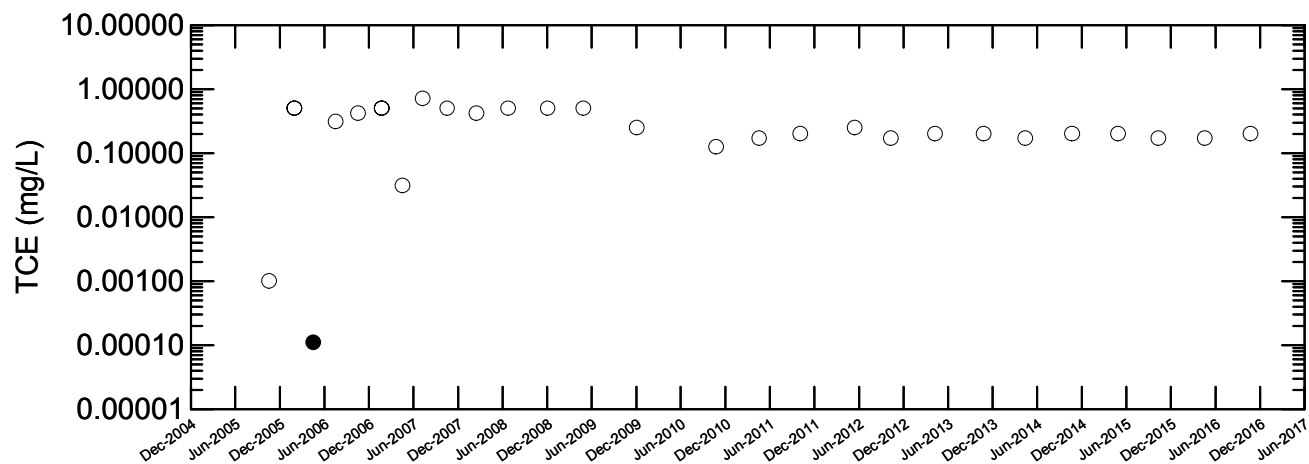
Note:

Non-detects are shown as the laboratory detection limit.

MW 41

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

Note:

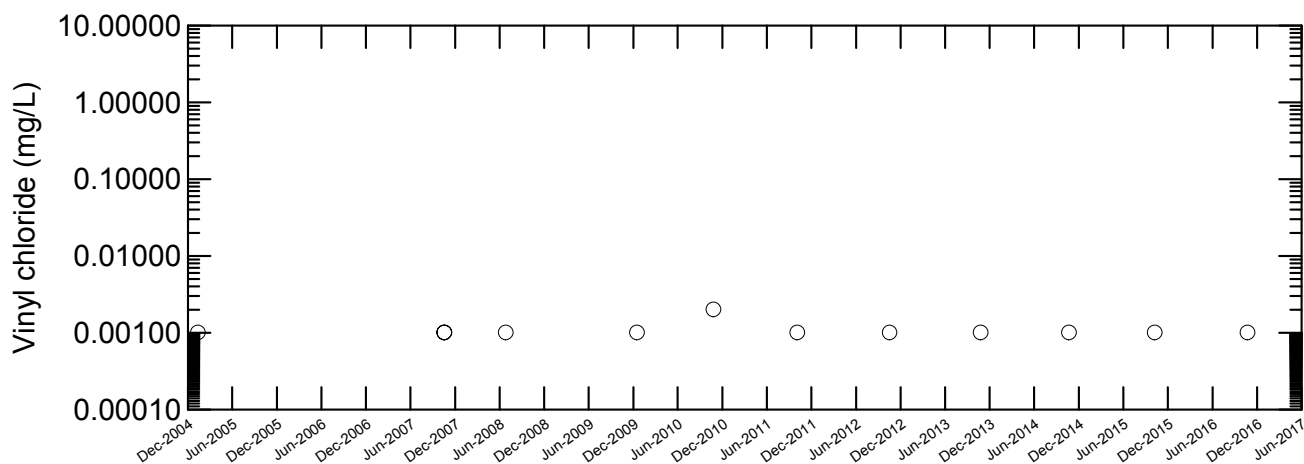
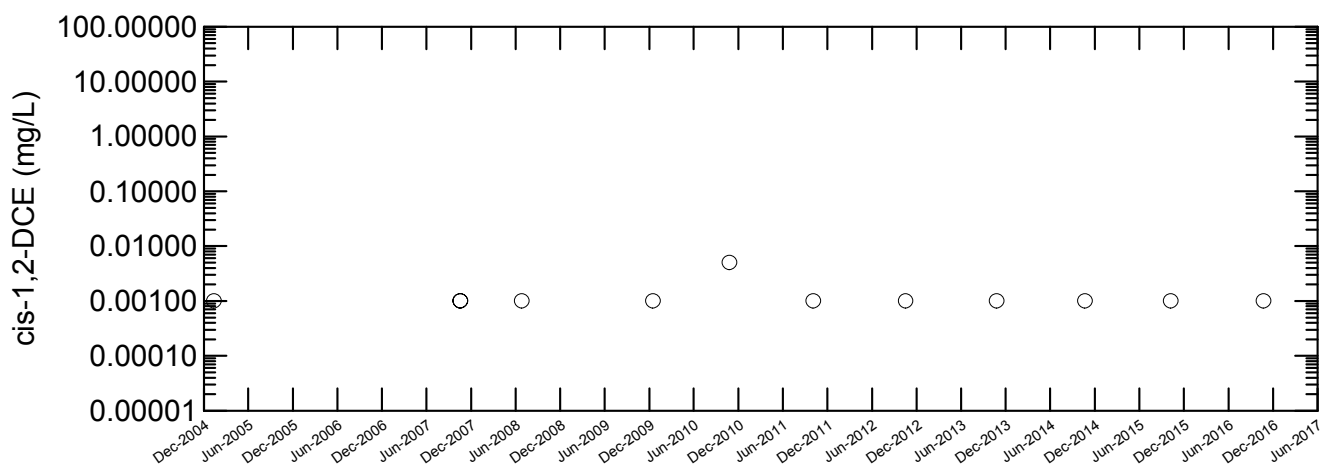
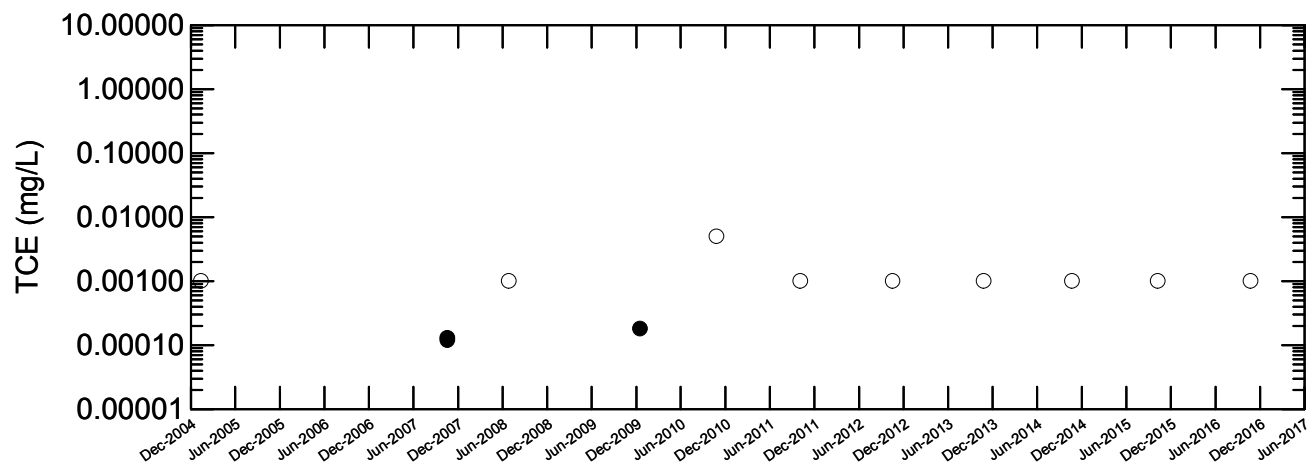
Non-detects are shown as the laboratory detection limit.

MW 42

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana







**Legend:**

- Detected Result
- Non-Detect Result

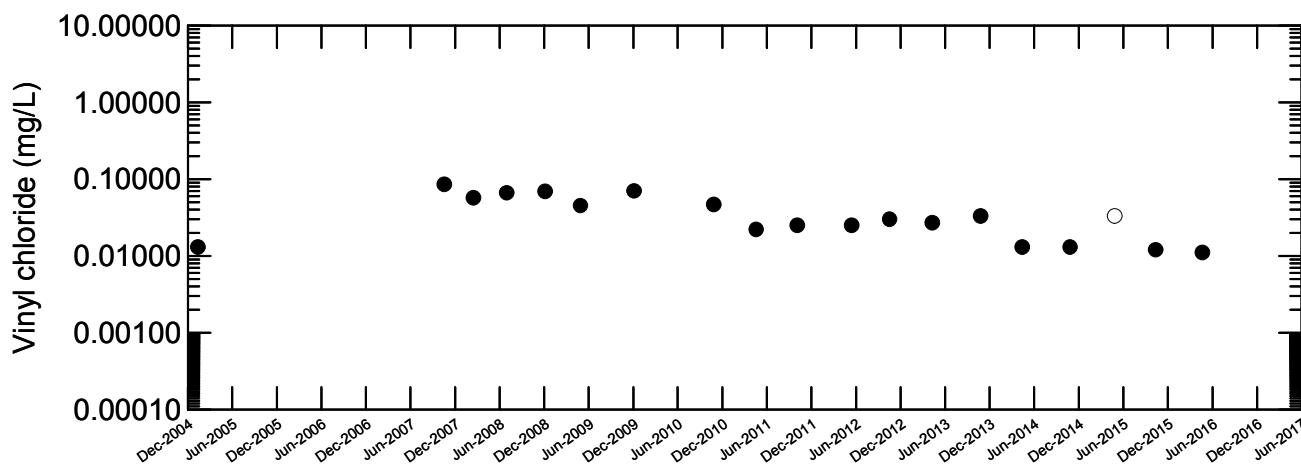
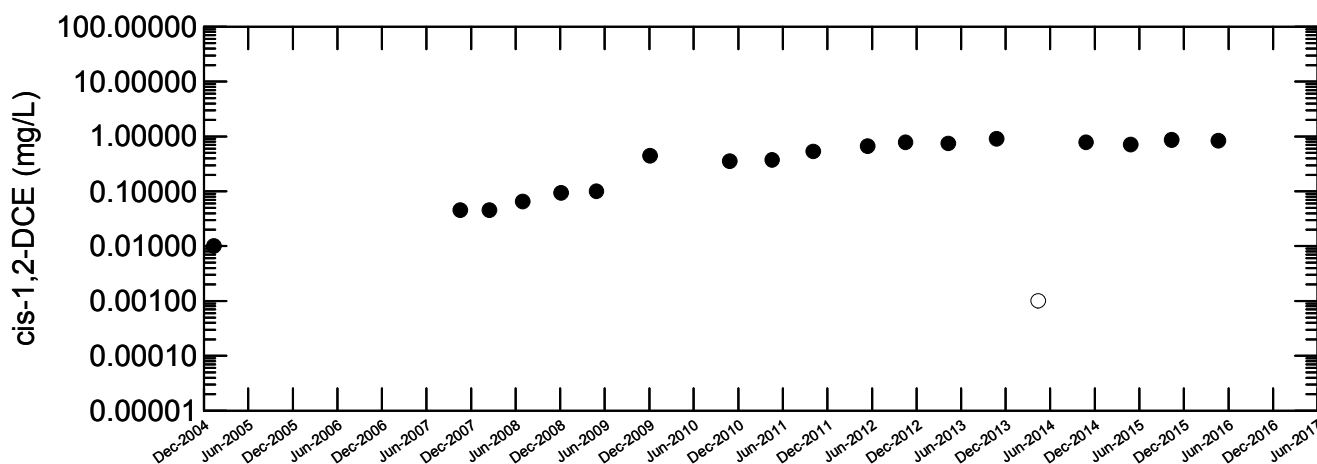
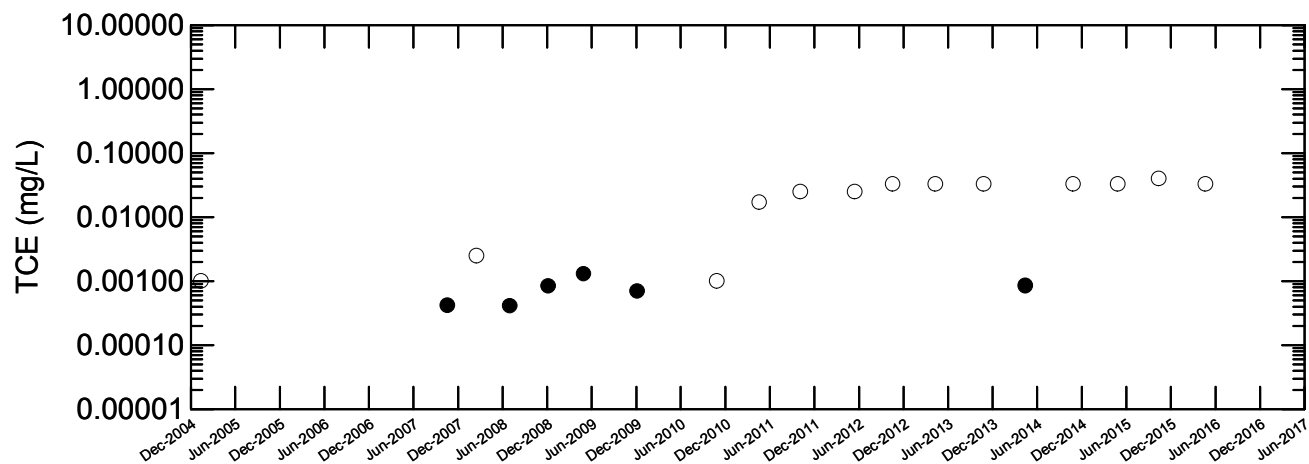
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 46

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

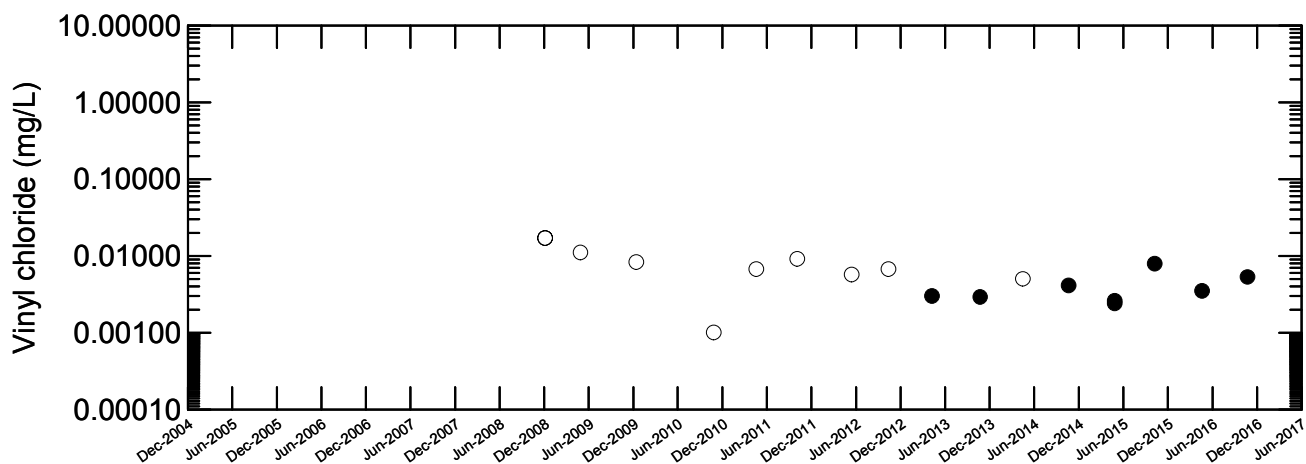
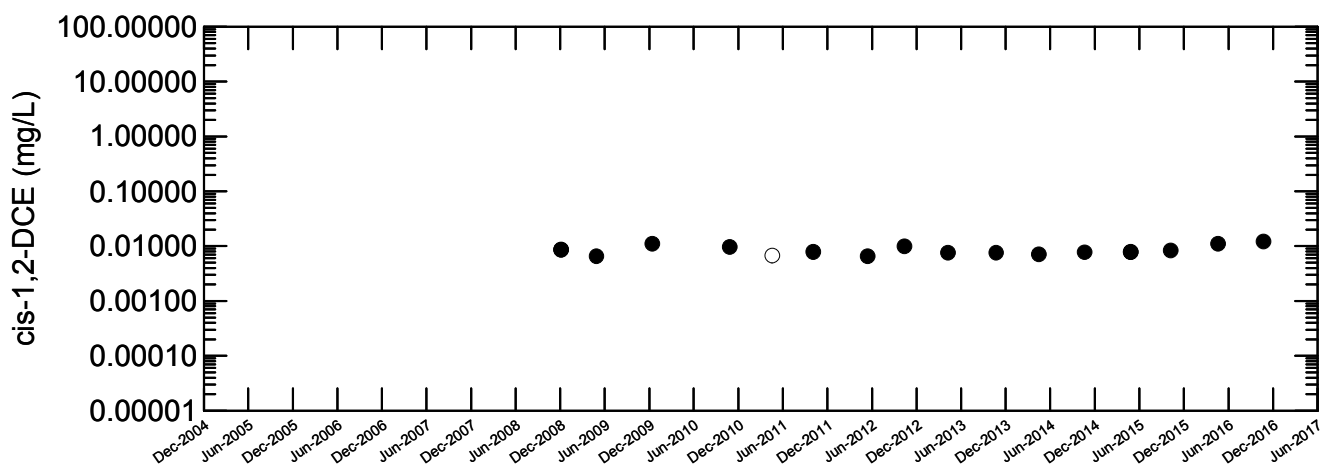
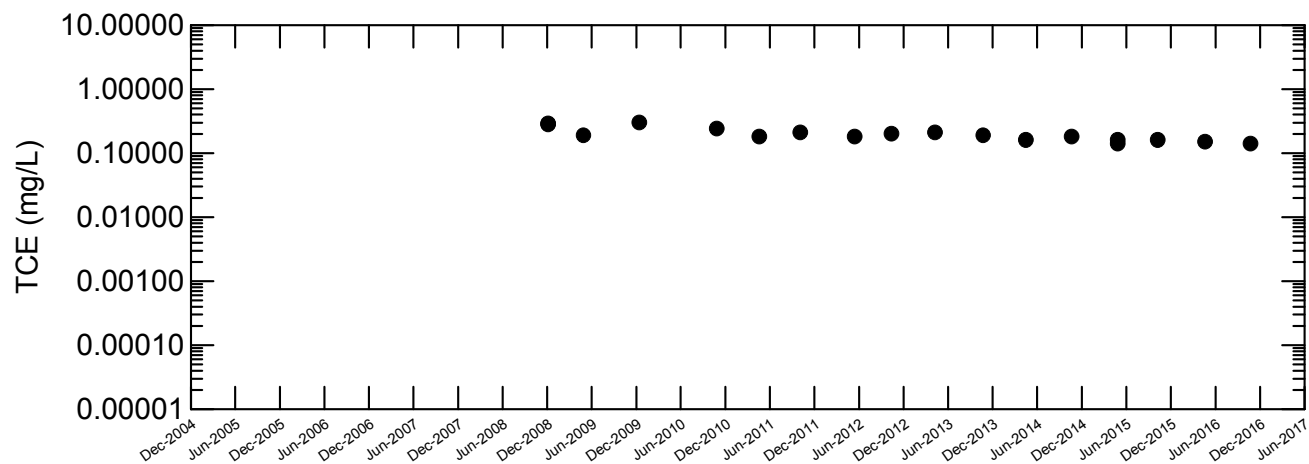
Note:

Non-detects are shown as the laboratory detection limit.

MW 49

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

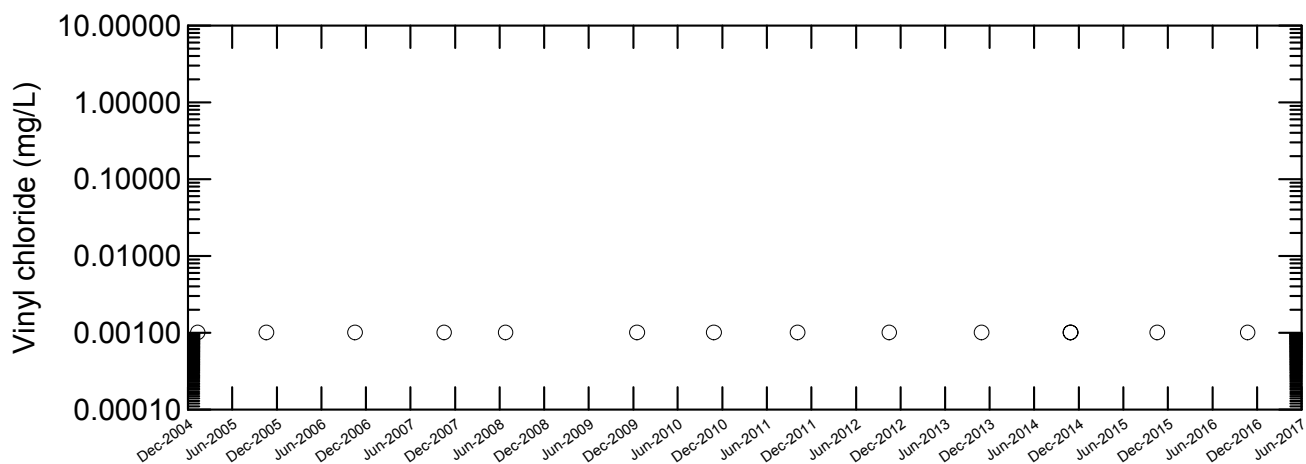
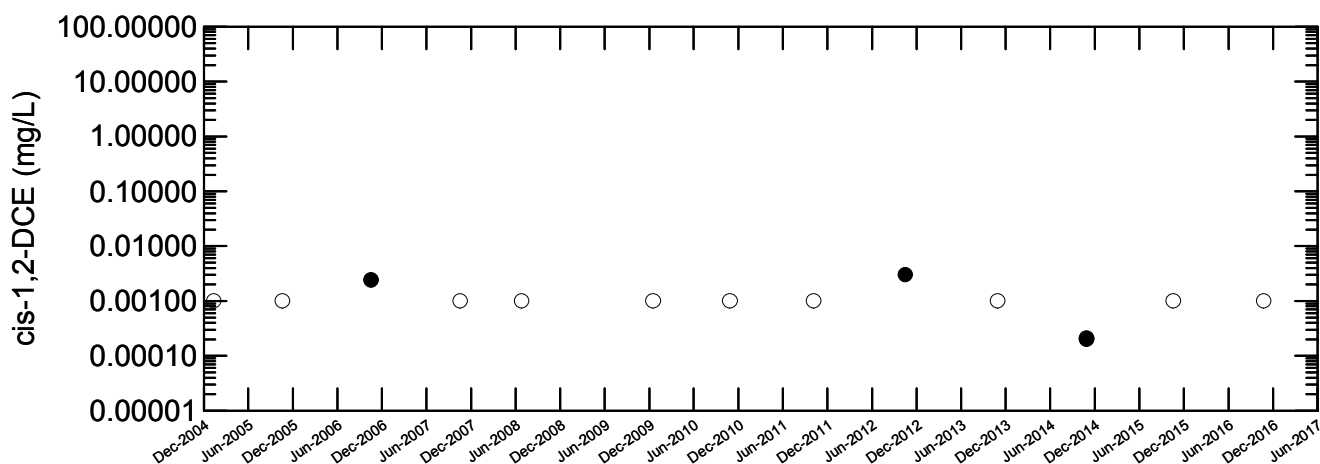
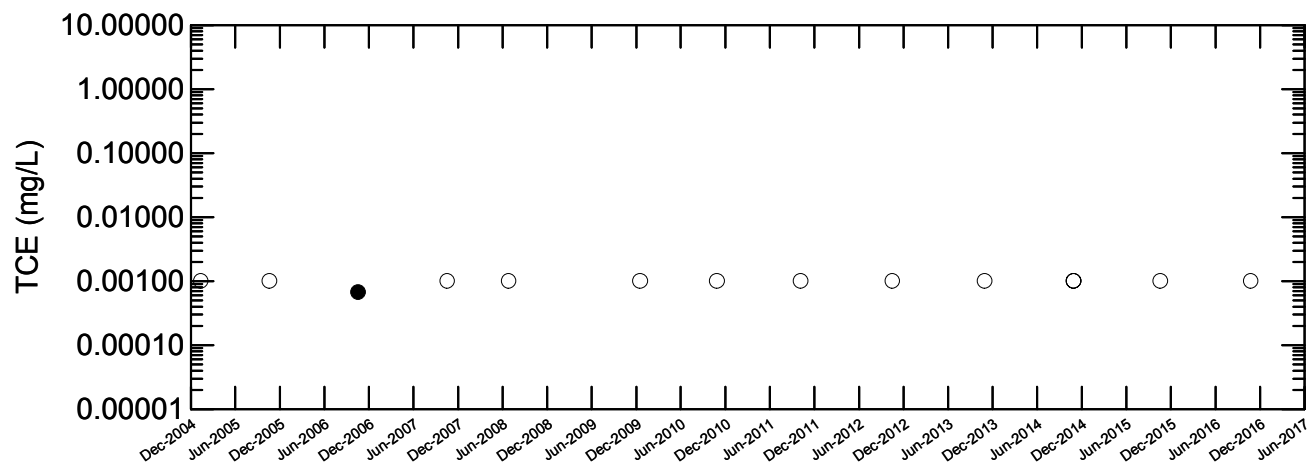
Note:

Non-detects are shown as the laboratory detection limit.

MW 51

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

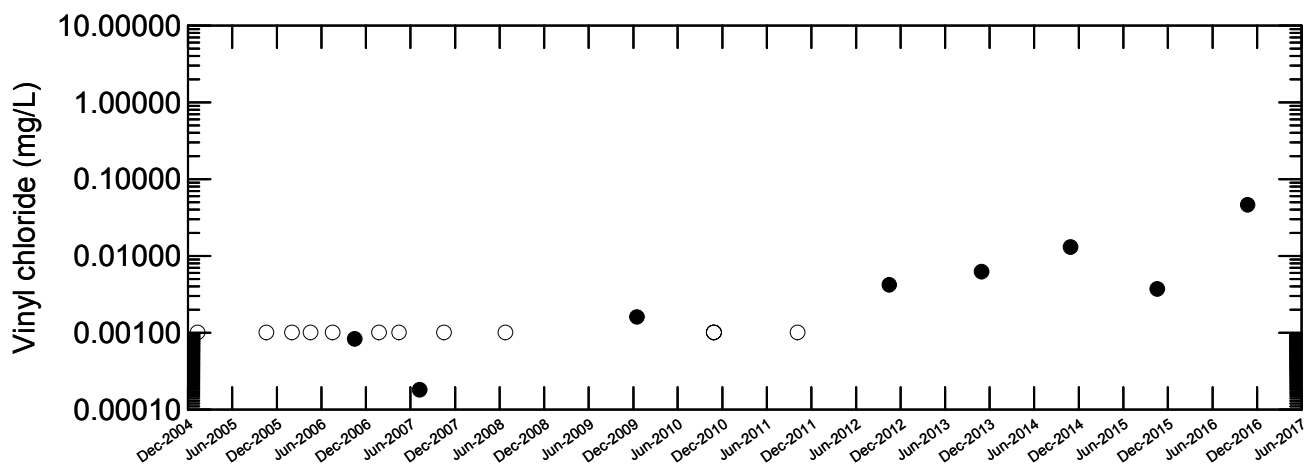
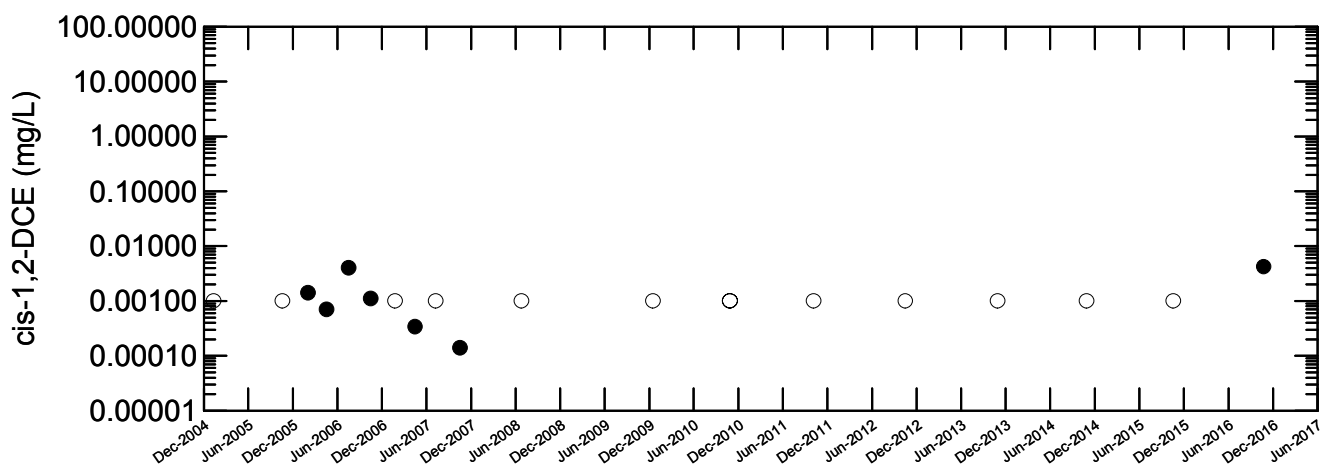
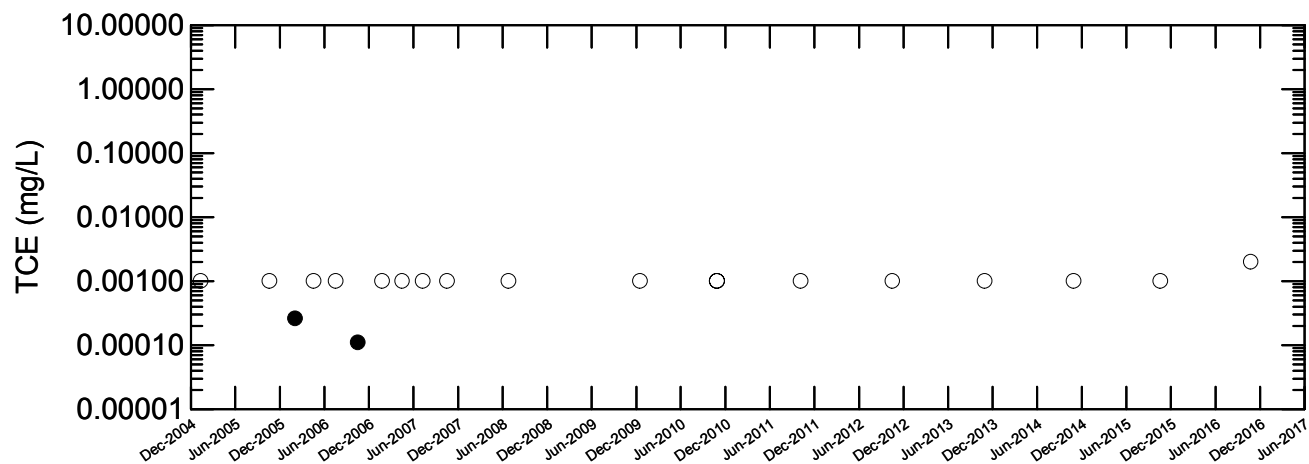
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 56

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

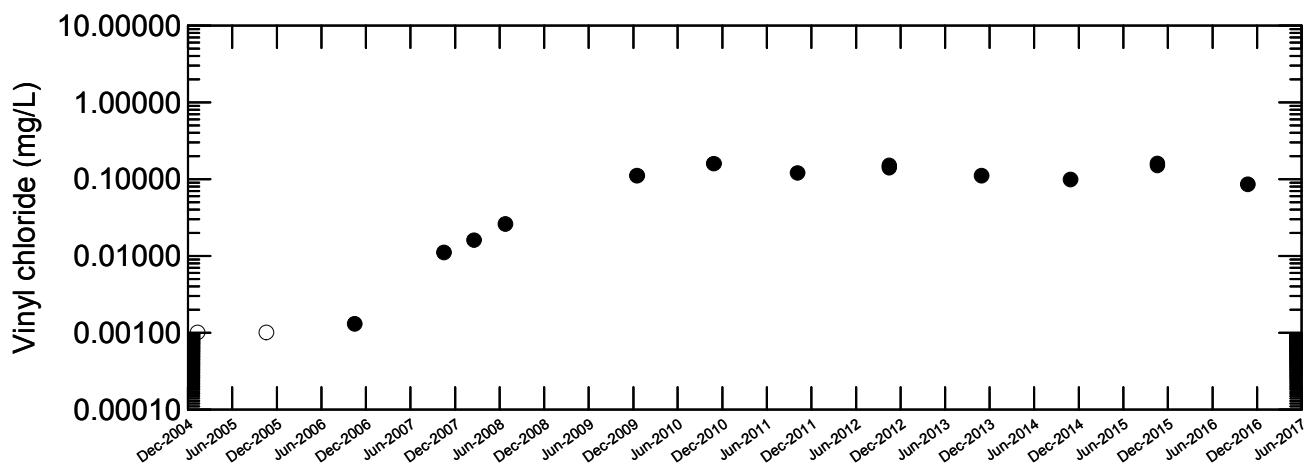
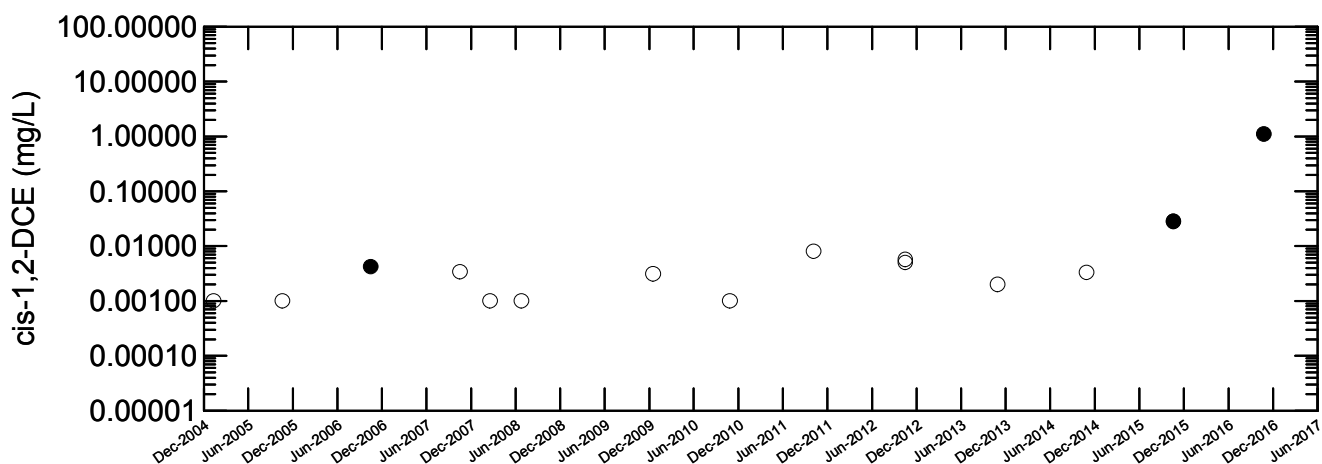
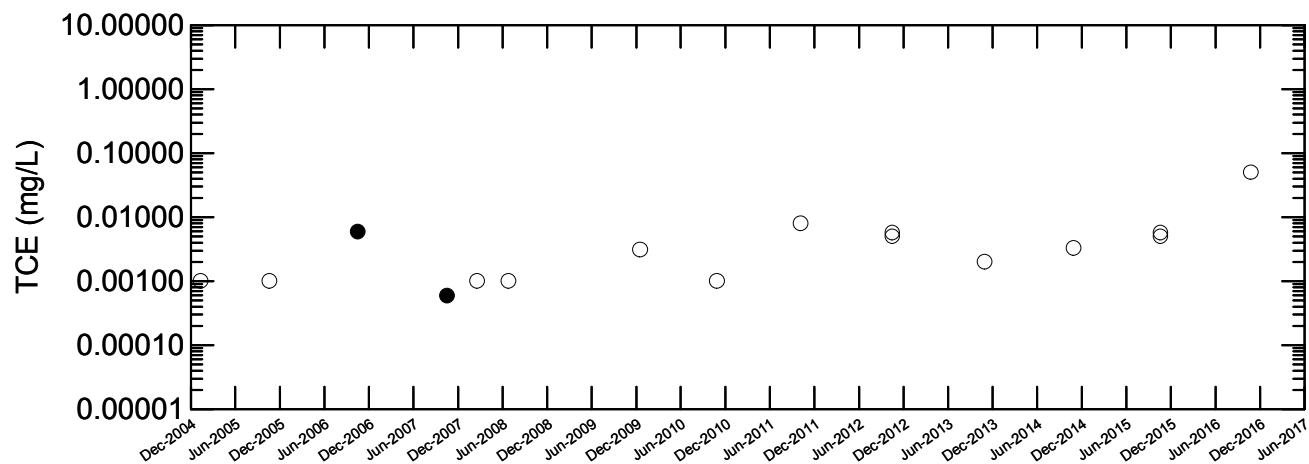
Note:

Non-detects are shown as the laboratory detection limit.

MW 57

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

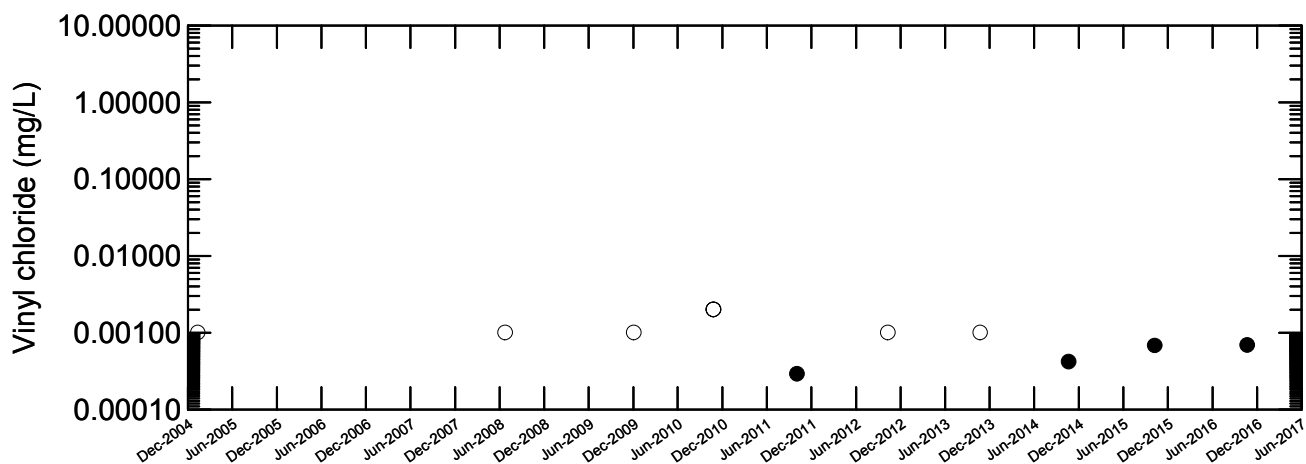
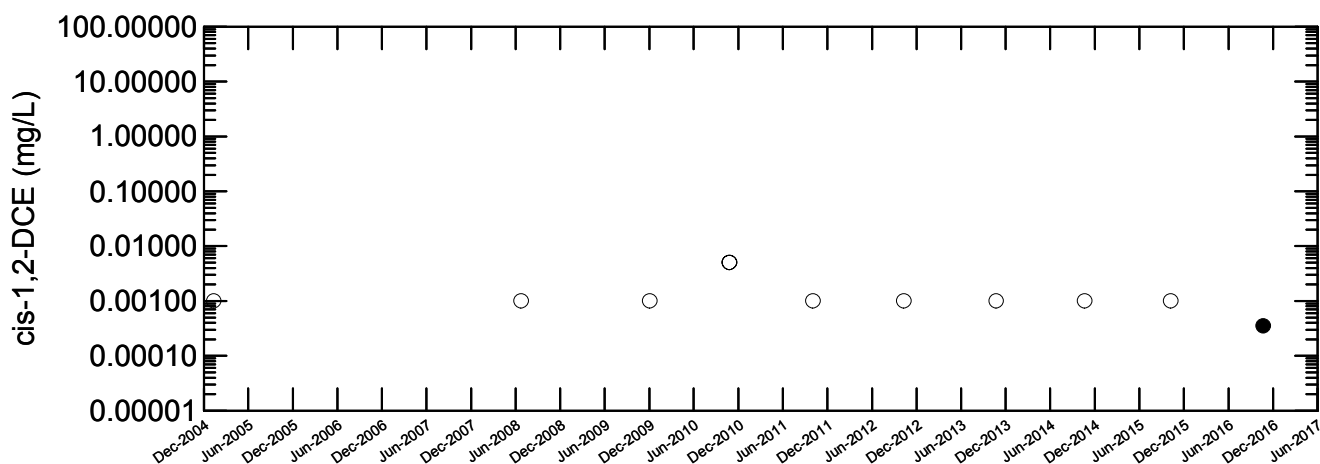
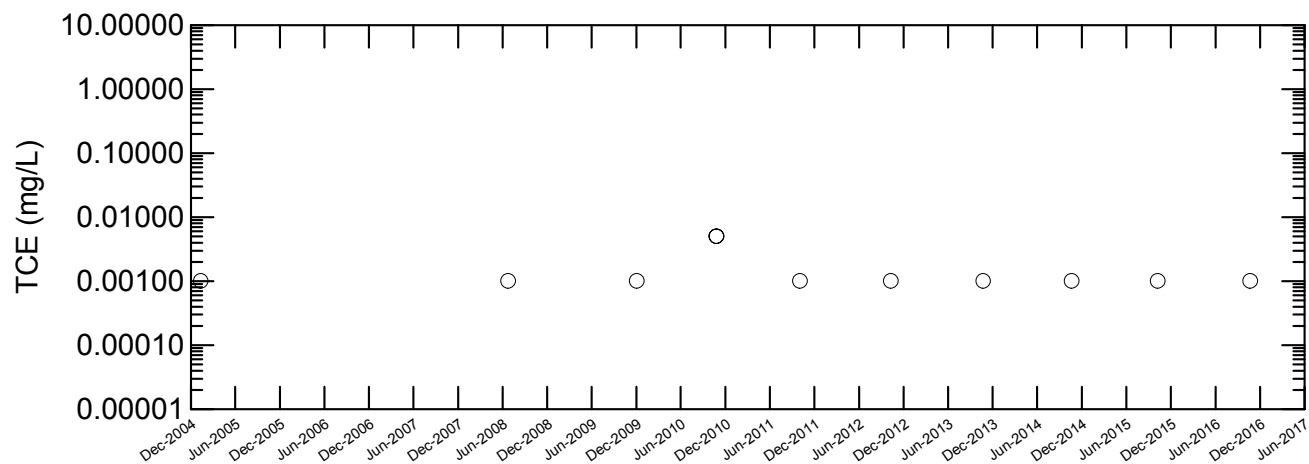
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 58

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

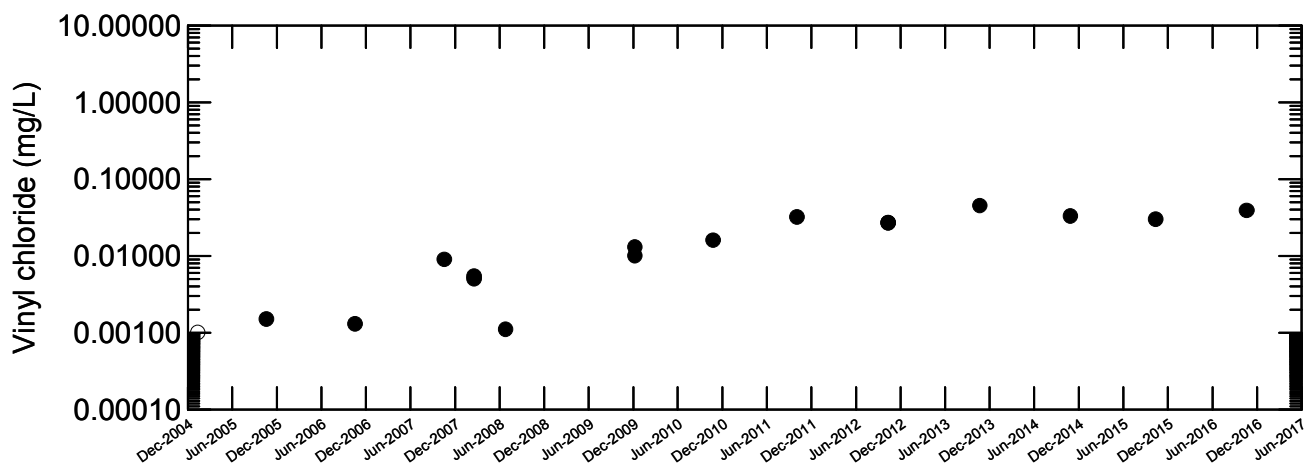
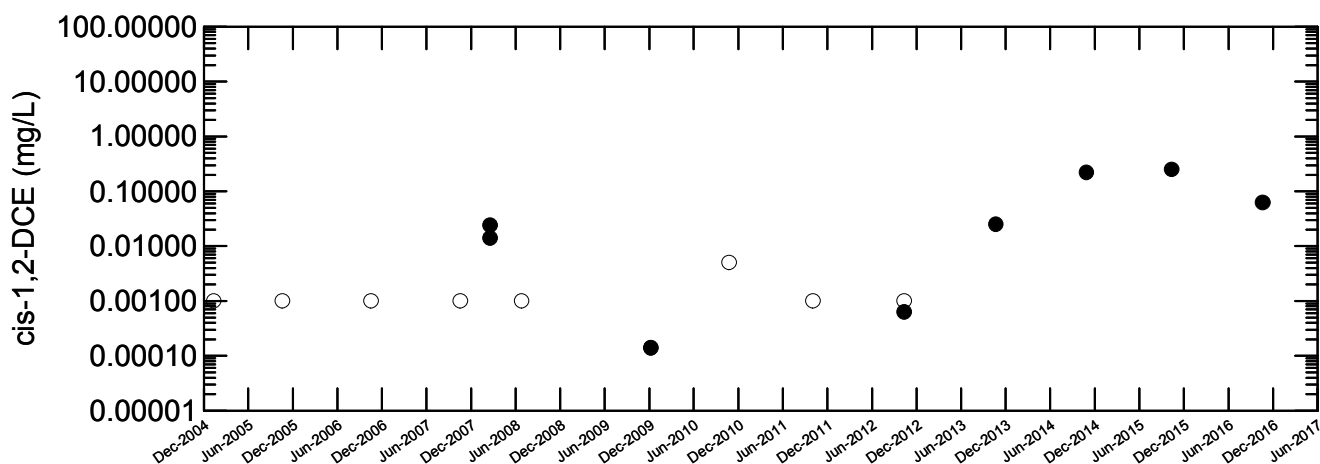
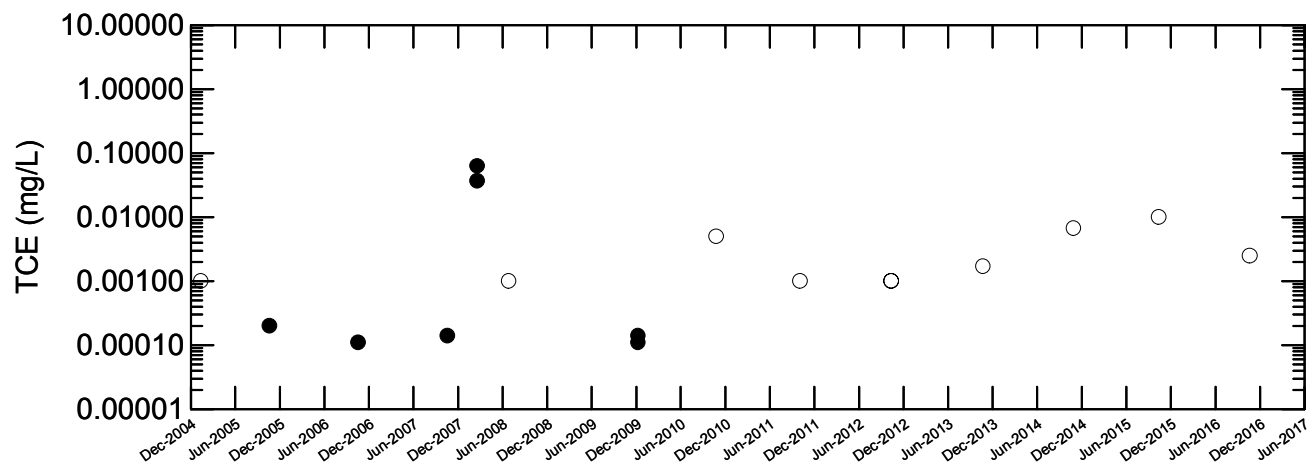
Note:

Non-detects are shown as the laboratory detection limit.

MW 61

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

Note:

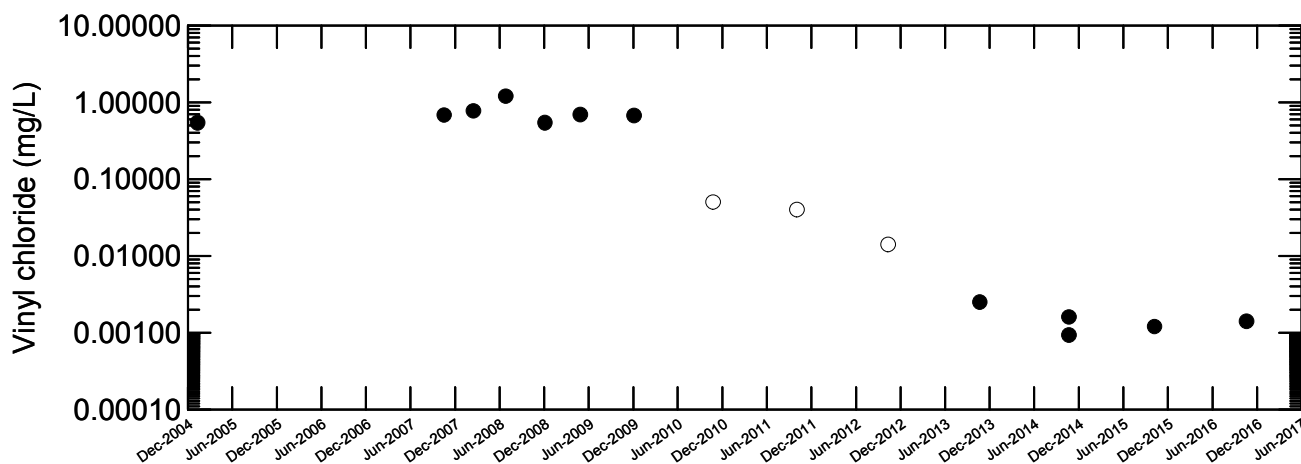
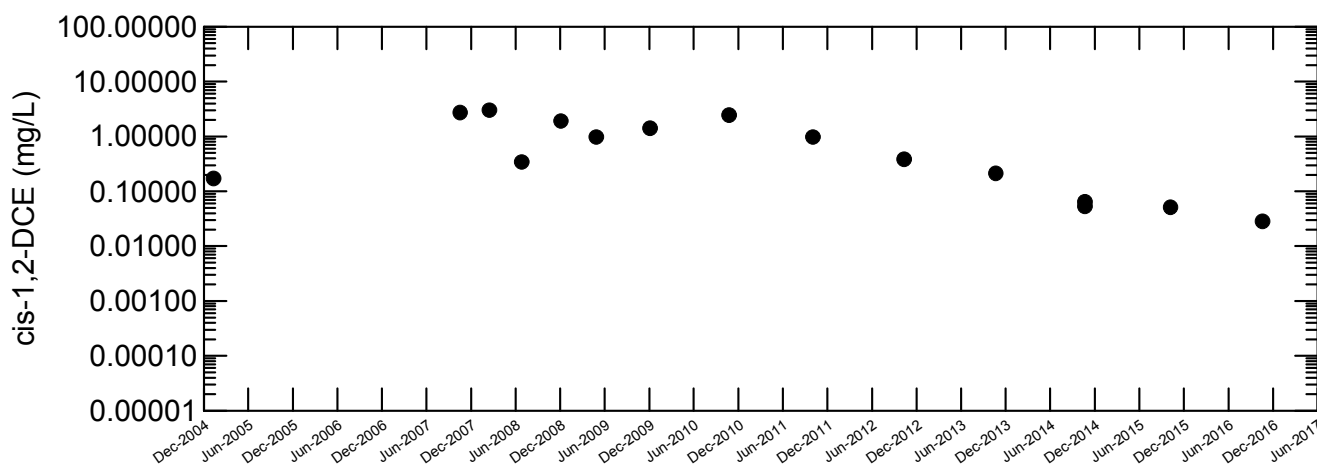
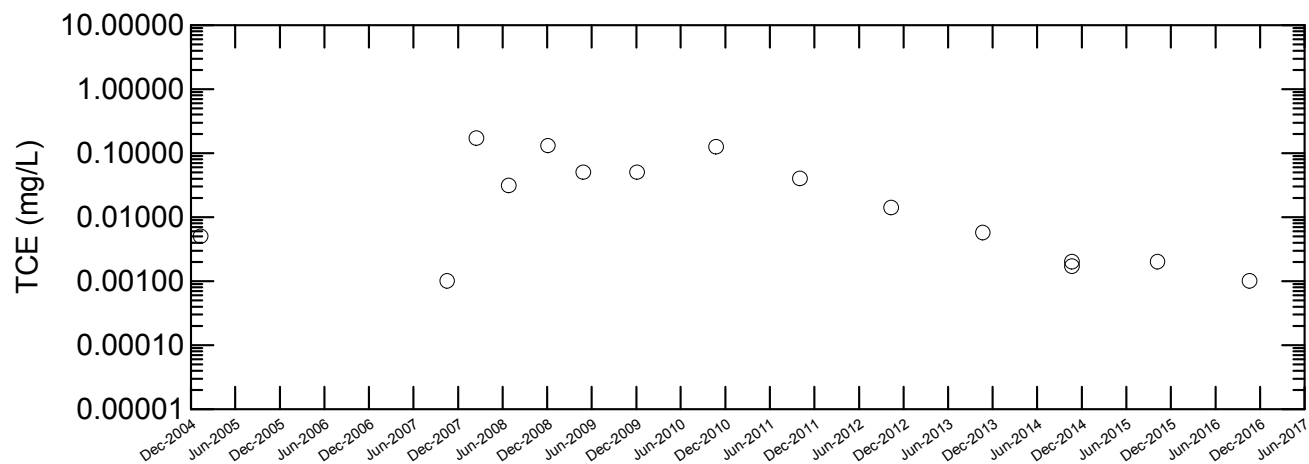
Non-detects are shown as the laboratory detection limit.

MW 64

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana







Legend:

- Detected Result
- Non-Detect Result

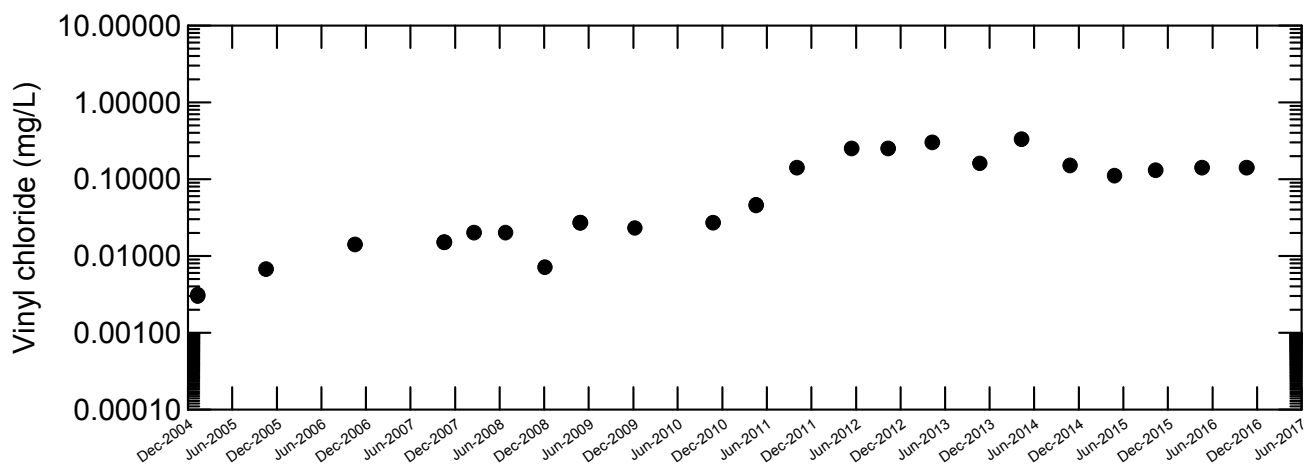
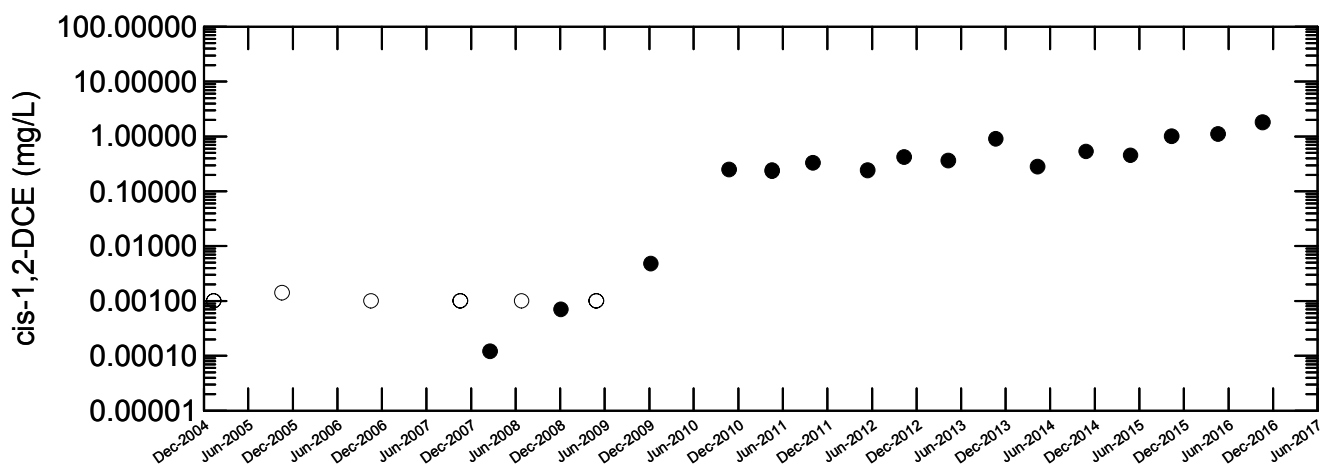
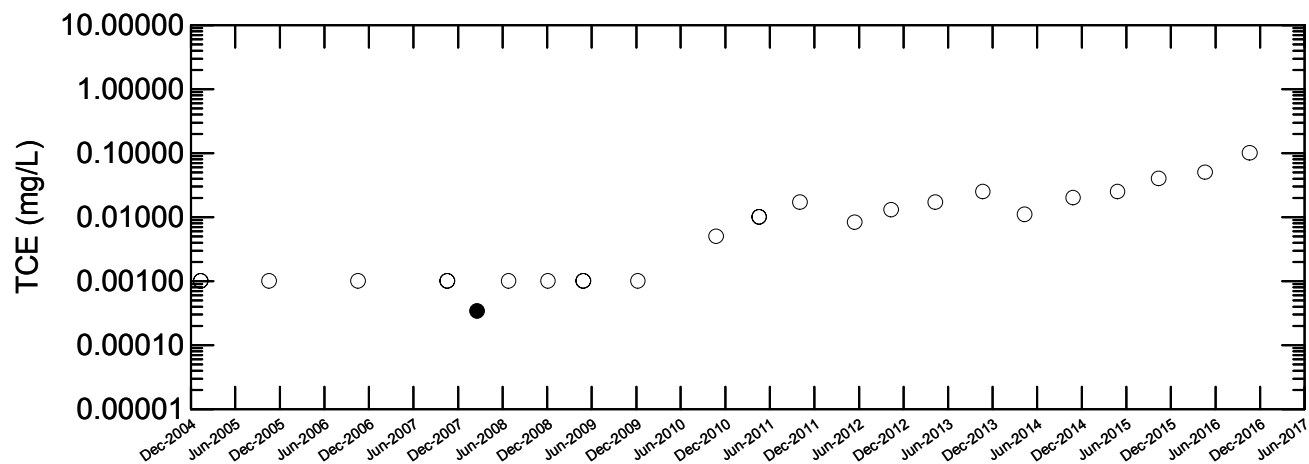
Note:

Non-detects are shown as the laboratory detection limit.

MW 65

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

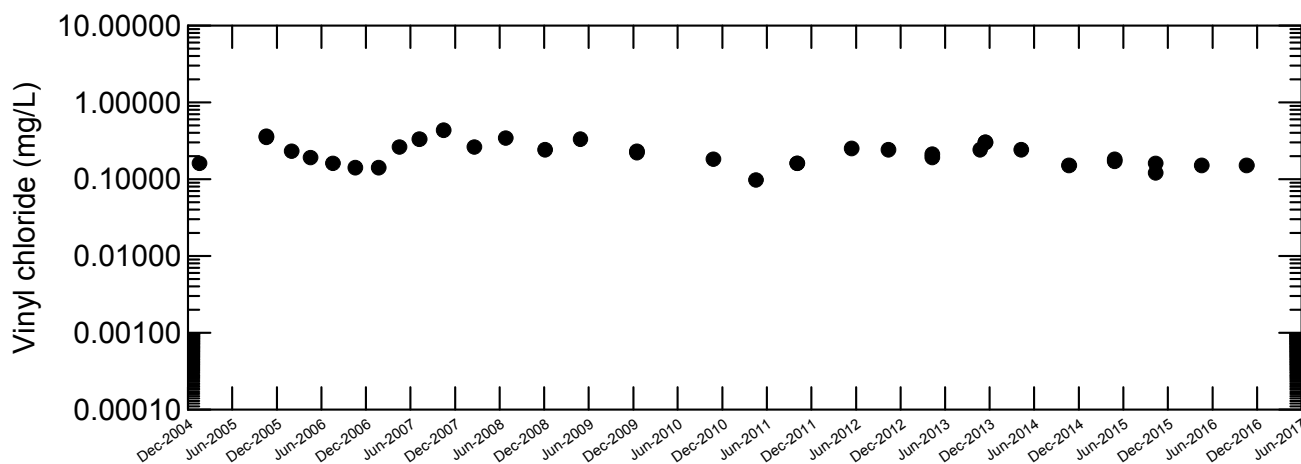
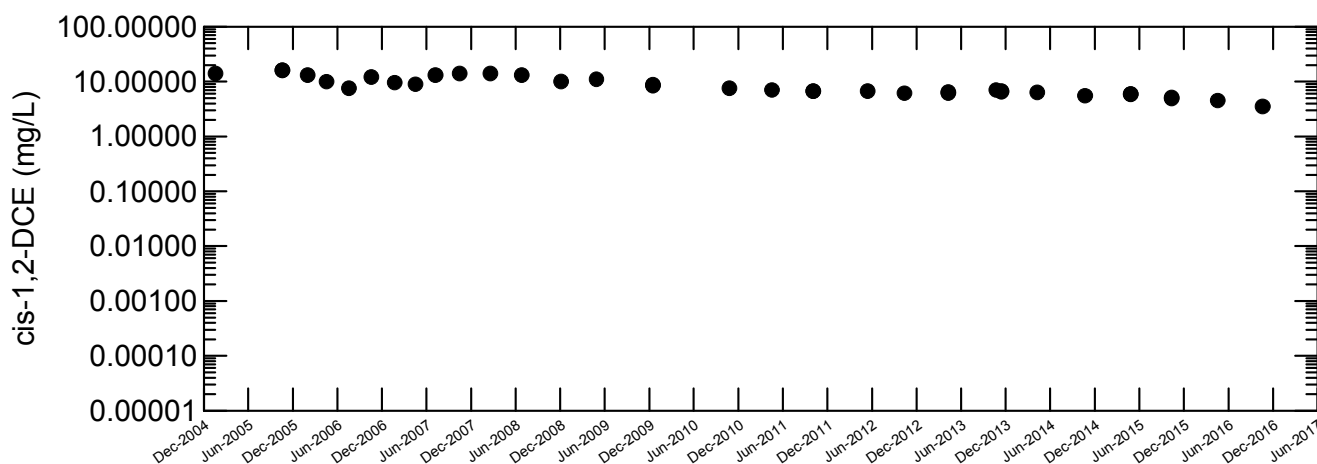
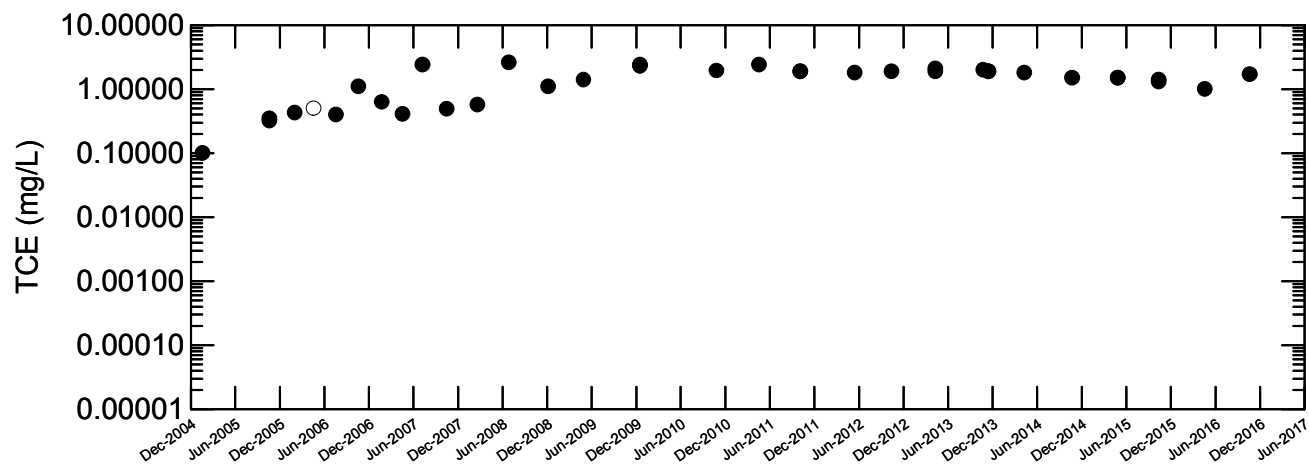
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 66

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

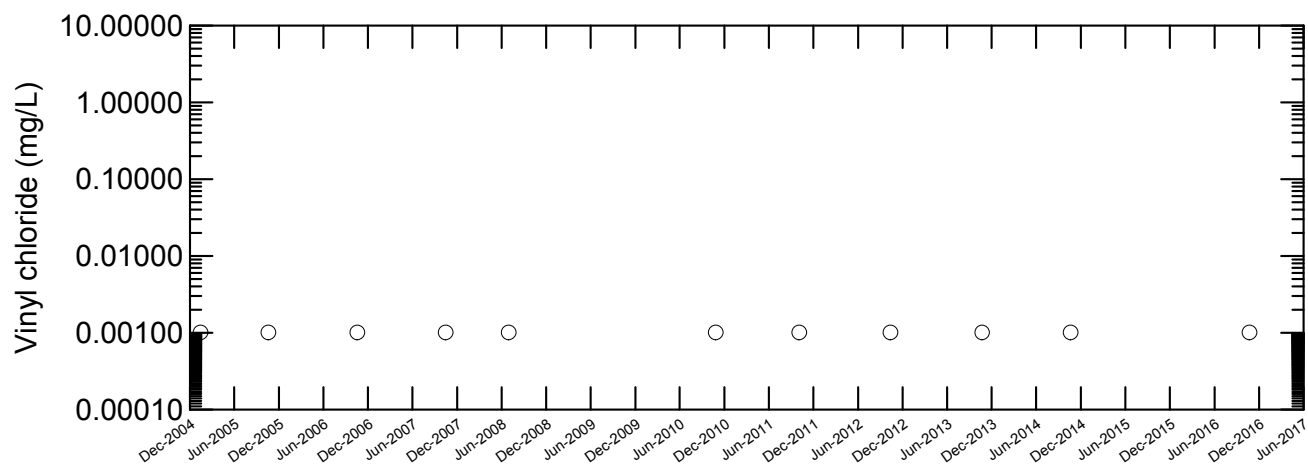
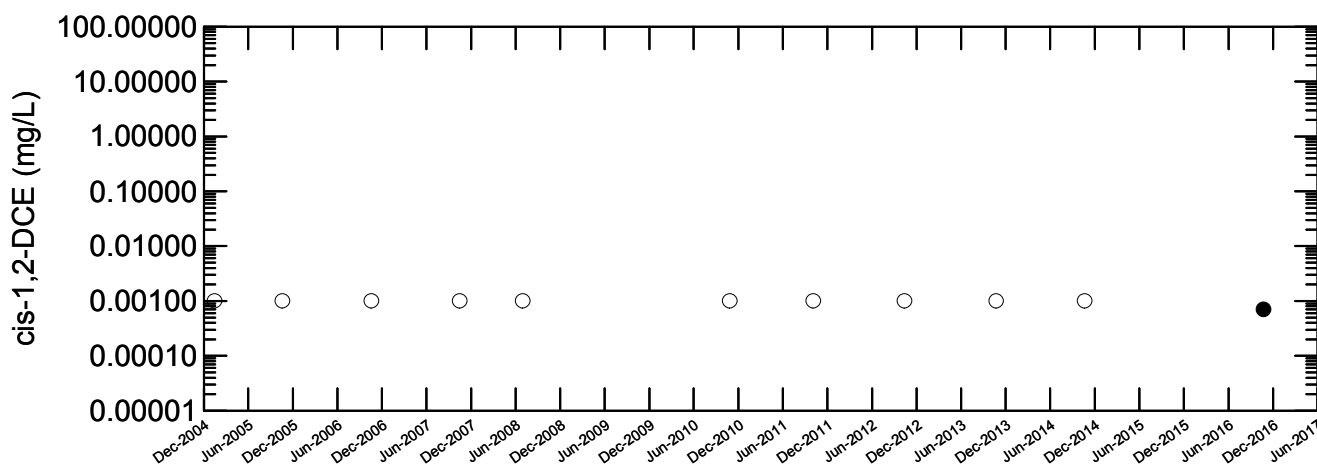
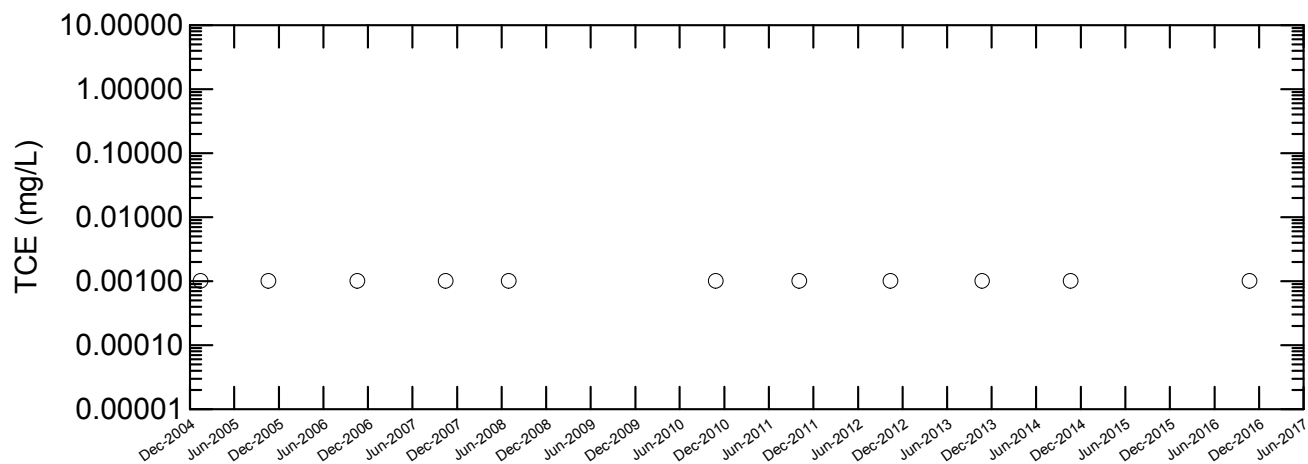
Note:

Non-detects are shown as the laboratory detection limit.

MW 68

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

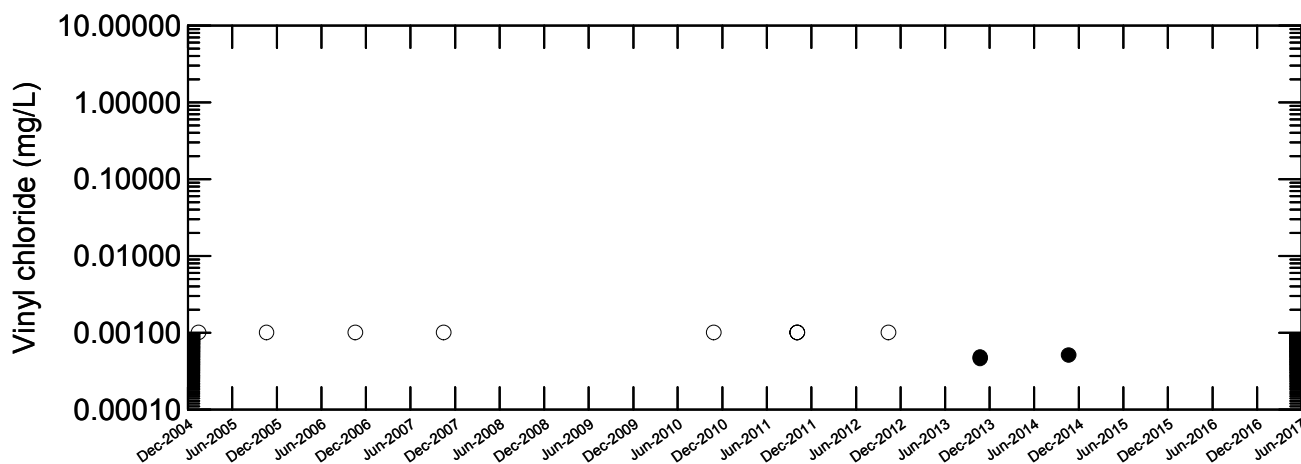
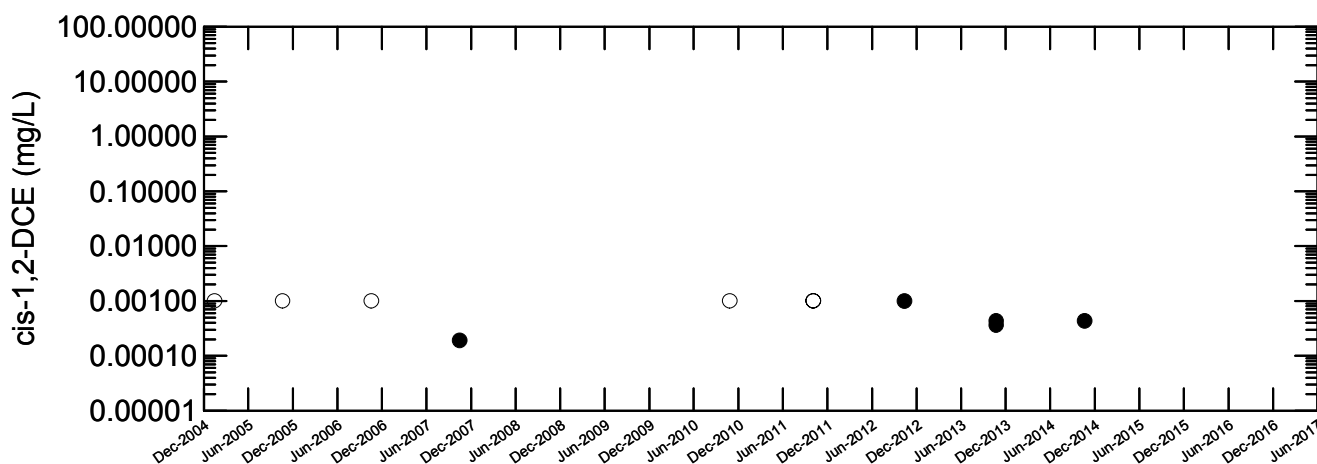
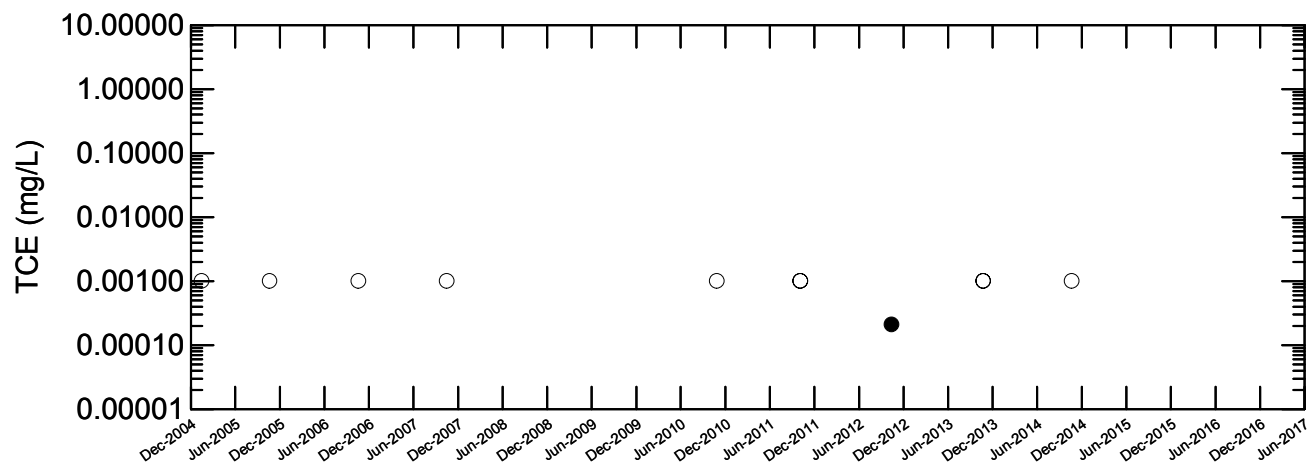
Note:

Non-detects are shown as the laboratory detection limit.

MW 75

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

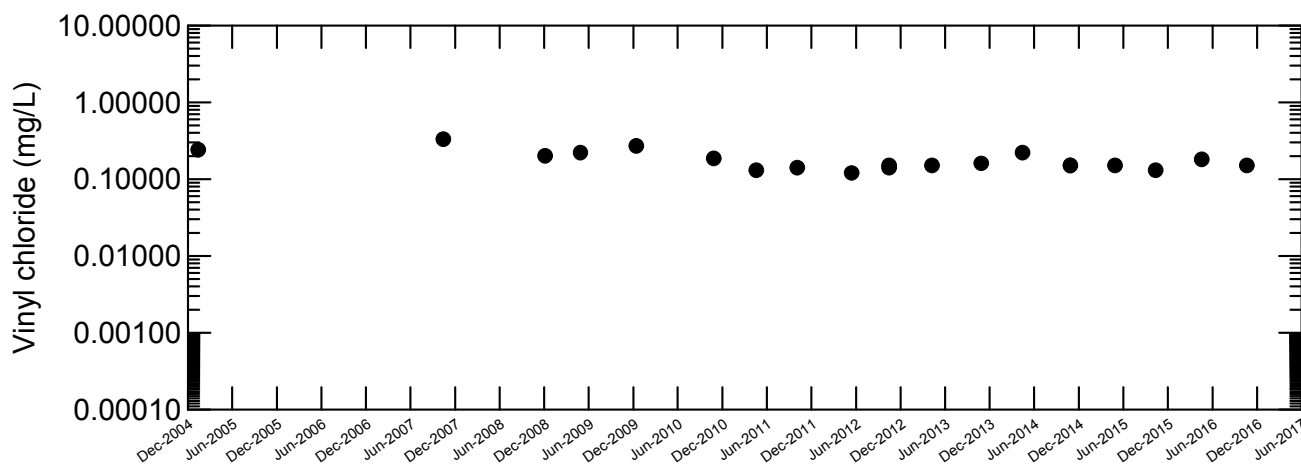
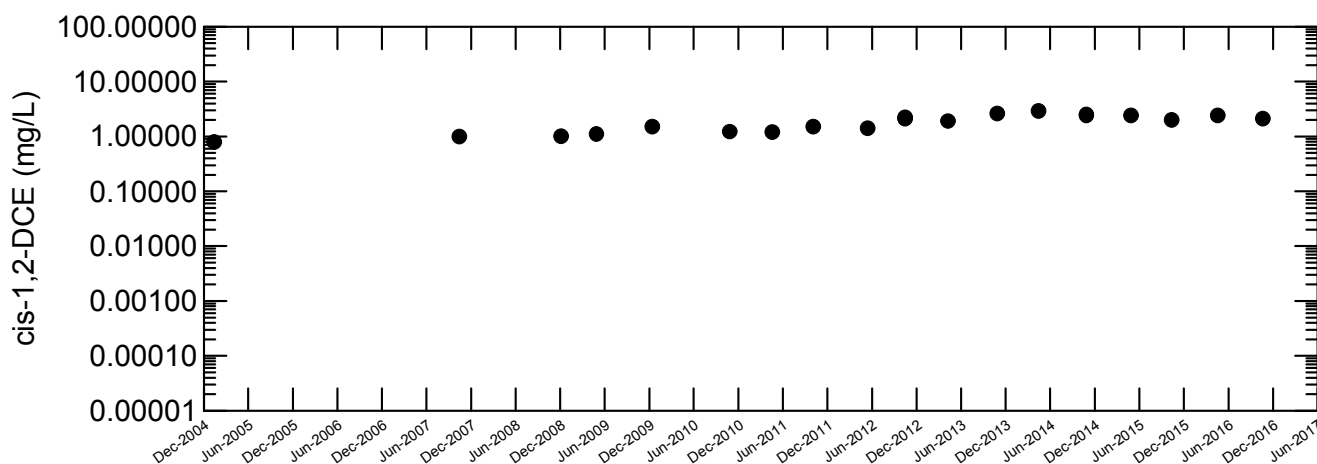
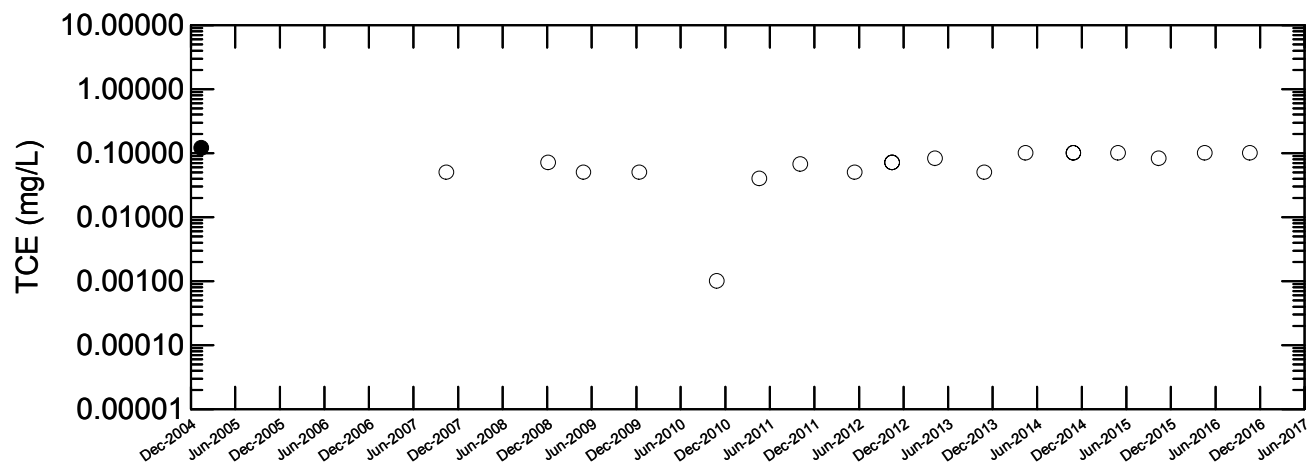
Note:

Non-detects are shown as the laboratory detection limit.

MW 76

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

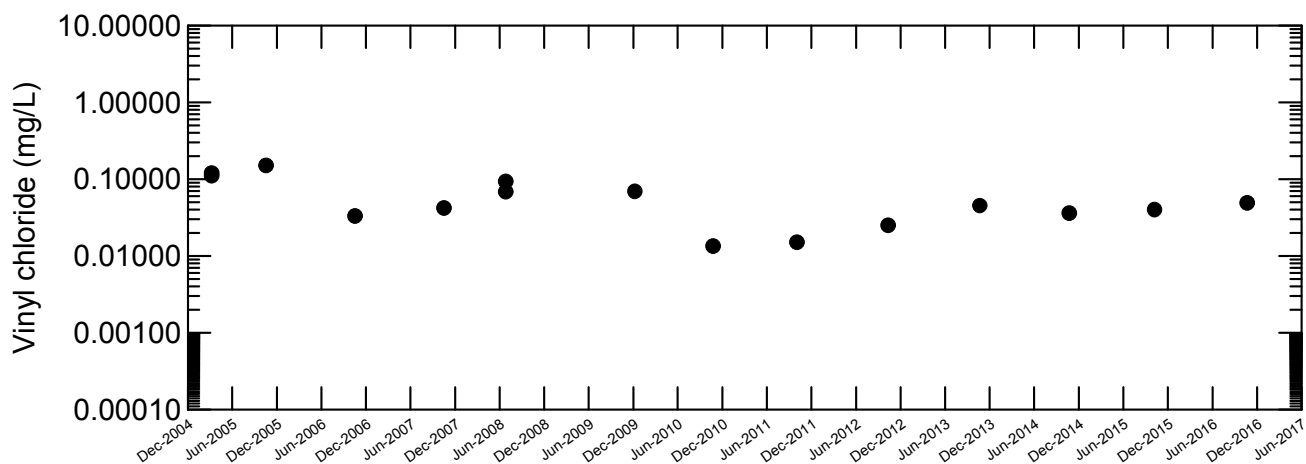
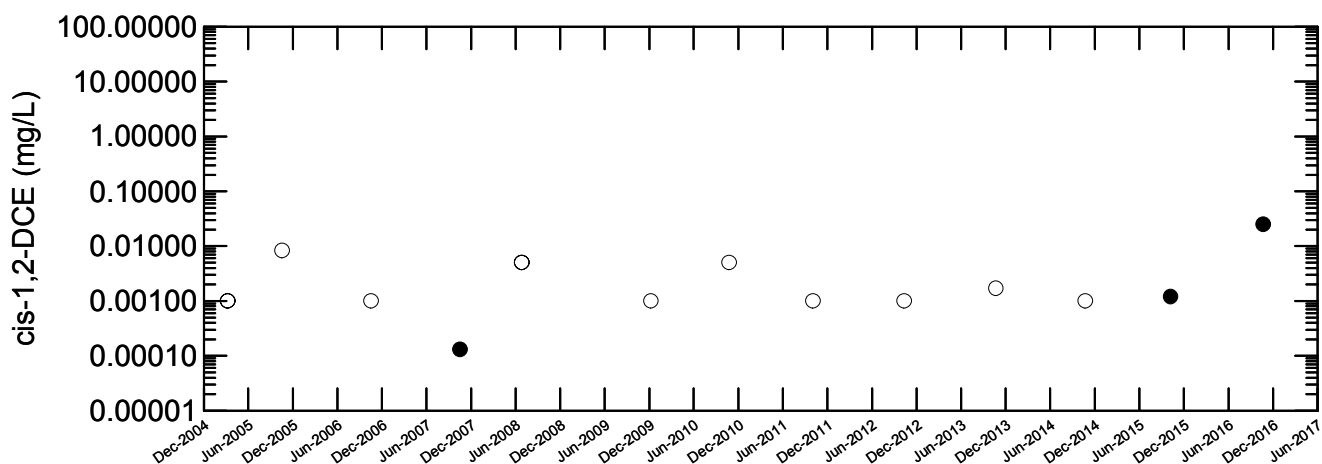
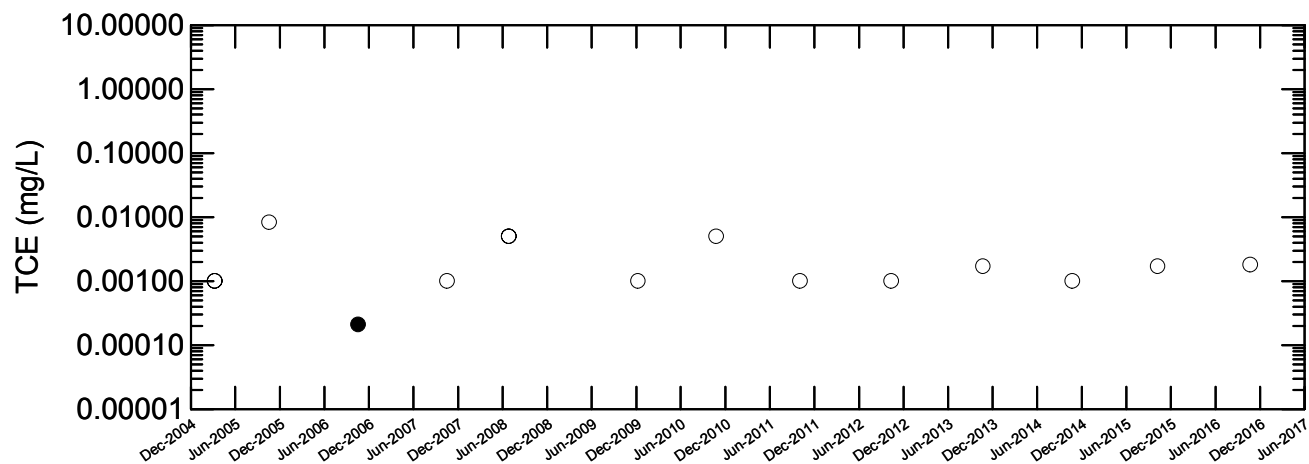
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 79

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

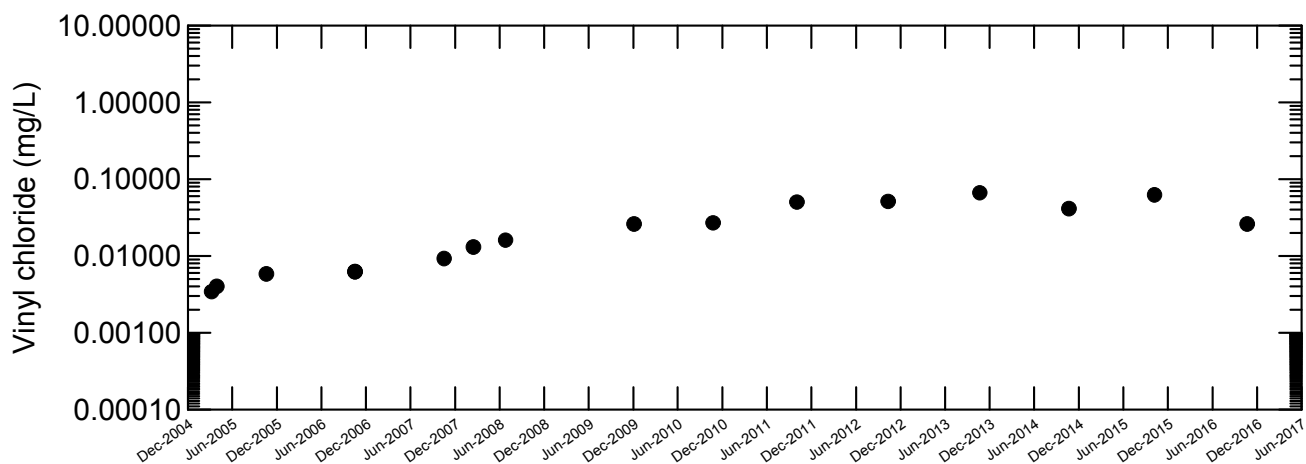
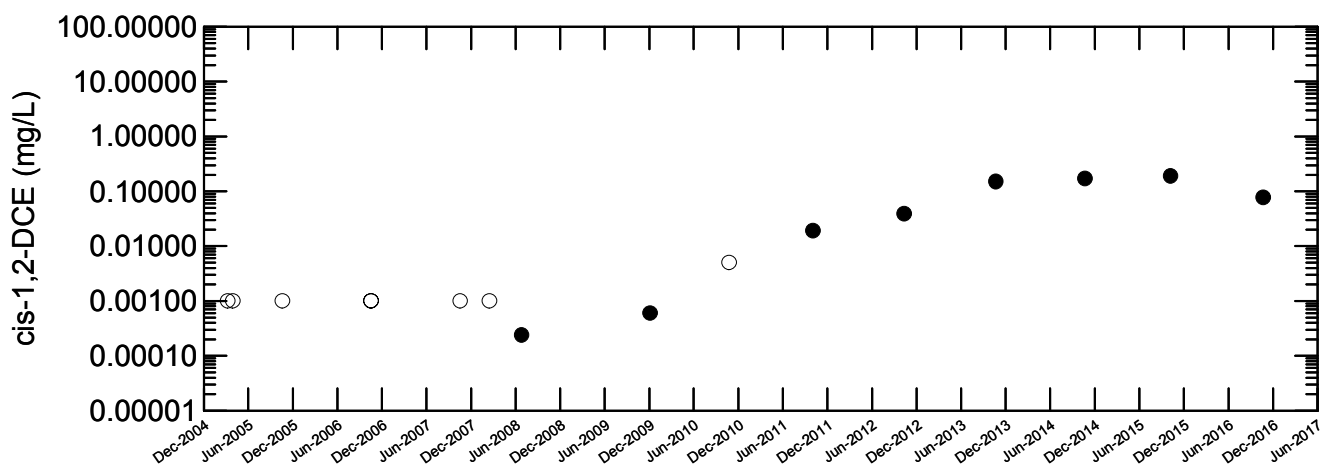
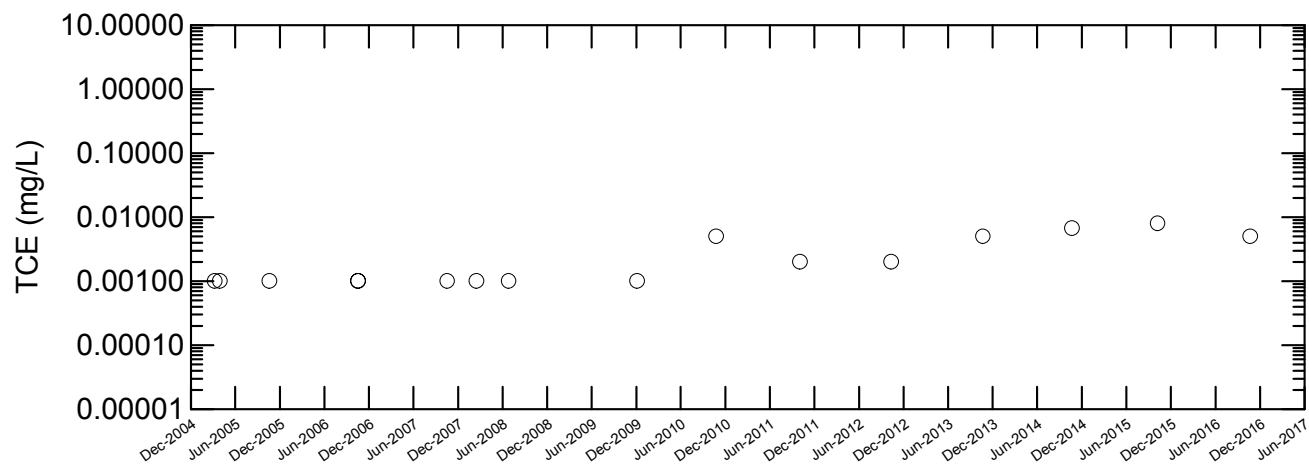
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 80

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

**Note:**

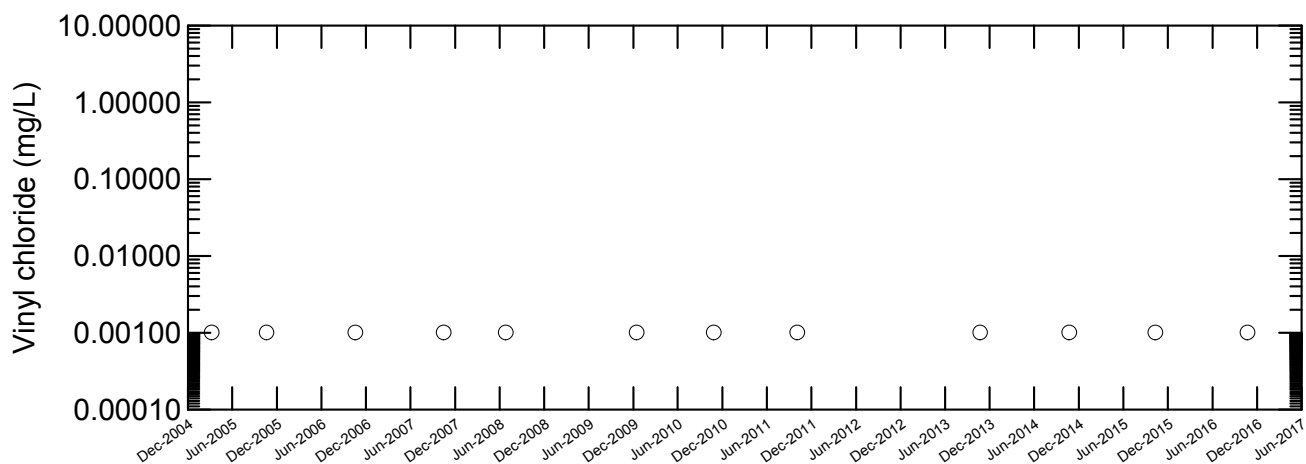
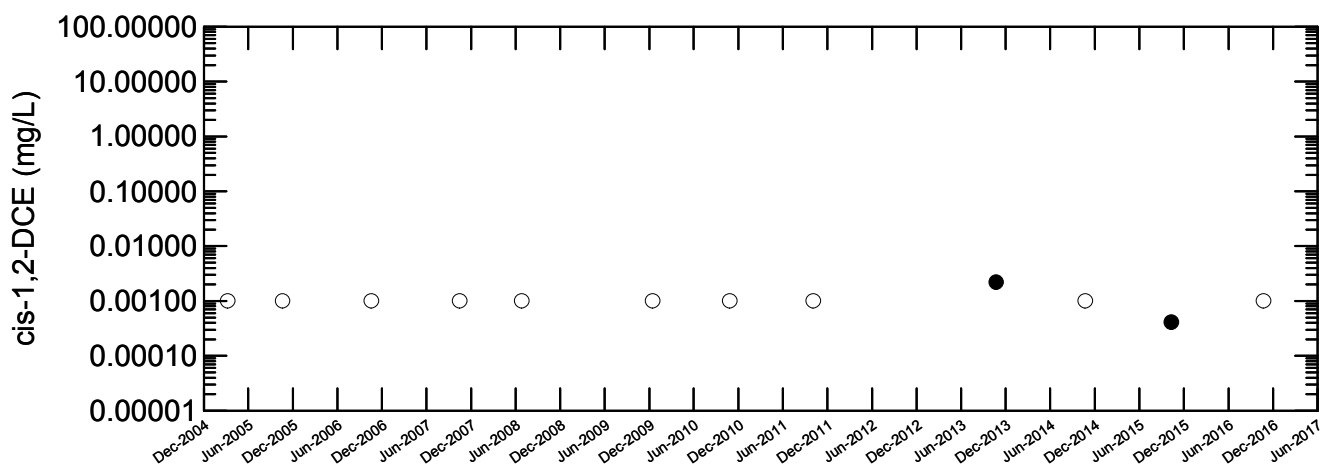
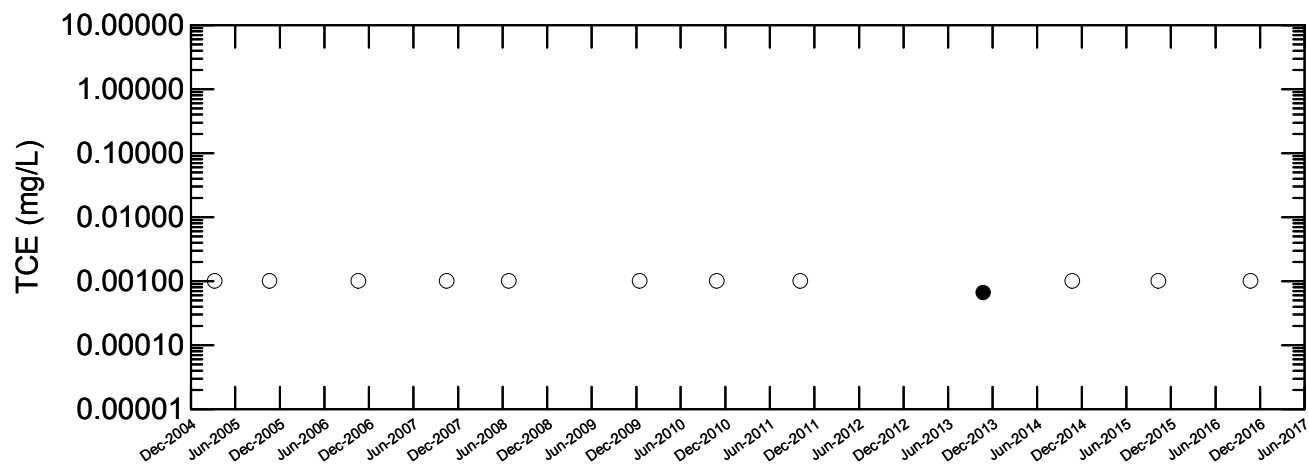
Non-detects are shown as the laboratory detection limit.

MW 81

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana







**Legend:**

- Detected Result
- Non-Detect Result

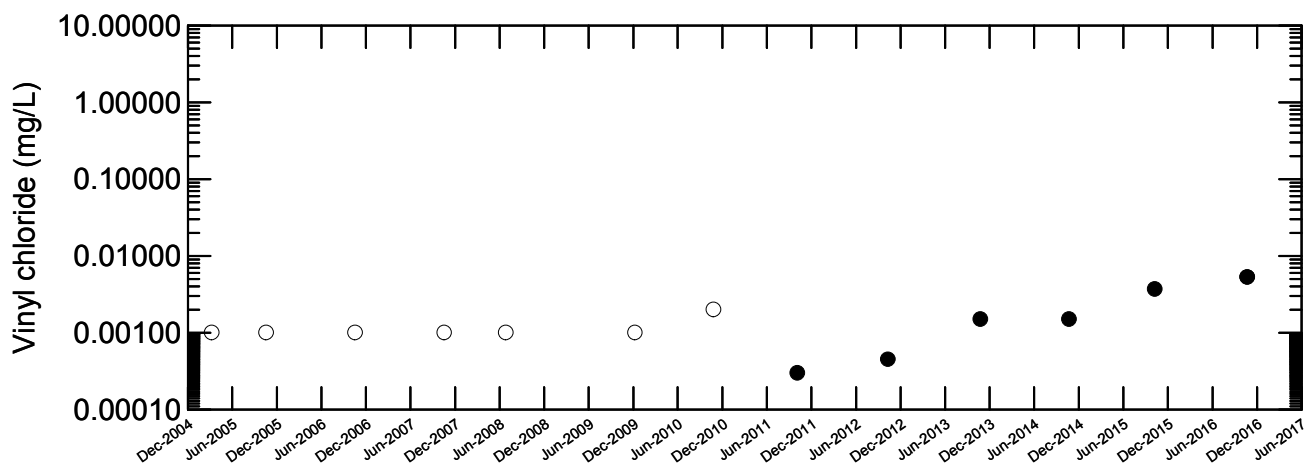
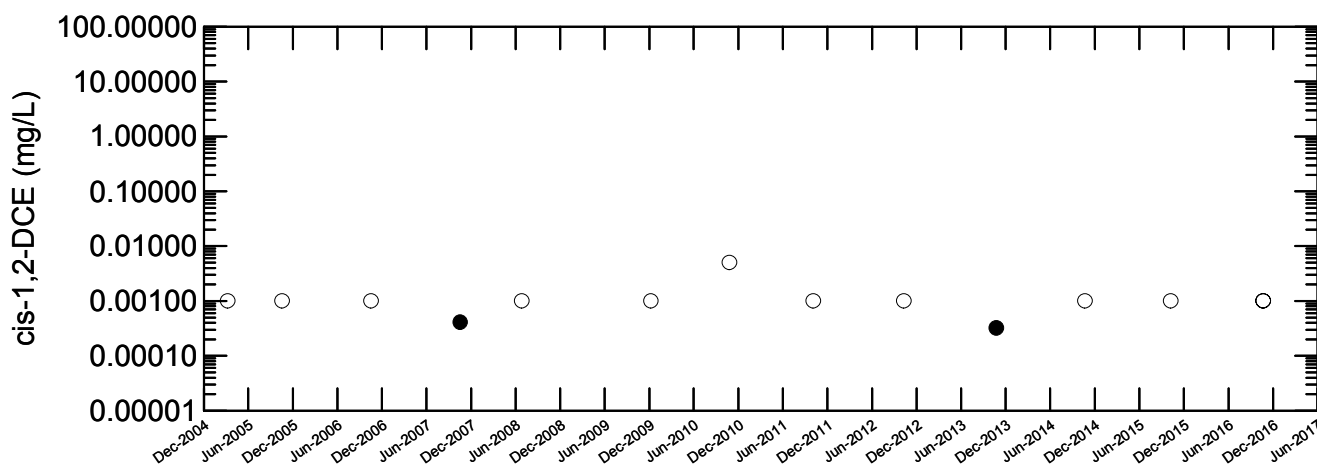
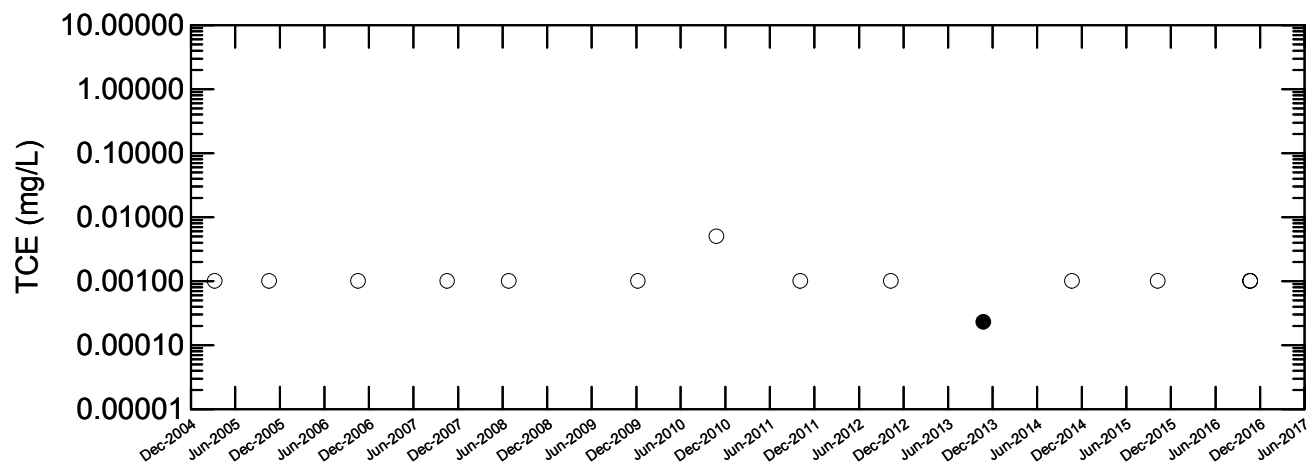
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 82

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

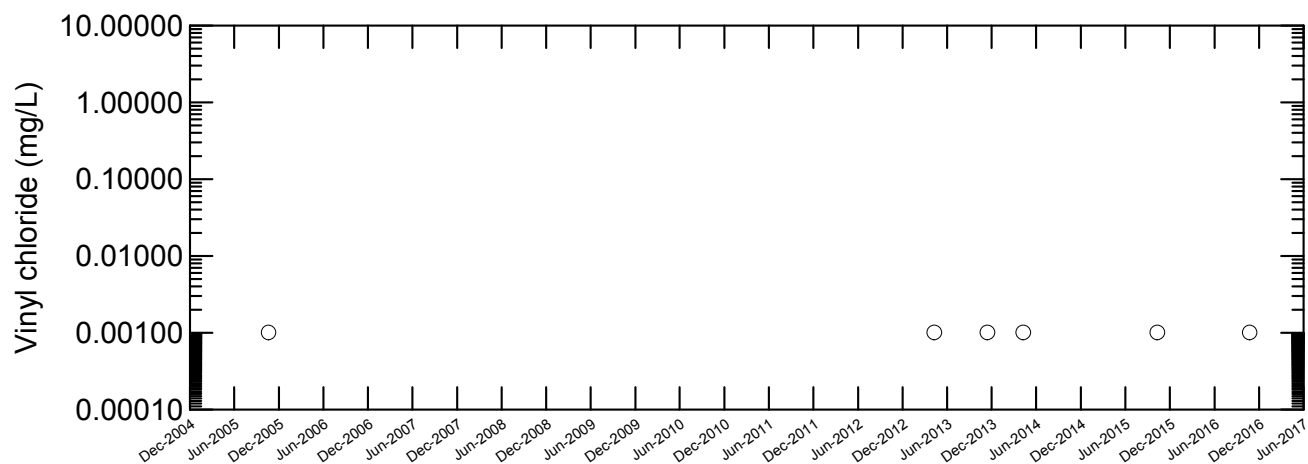
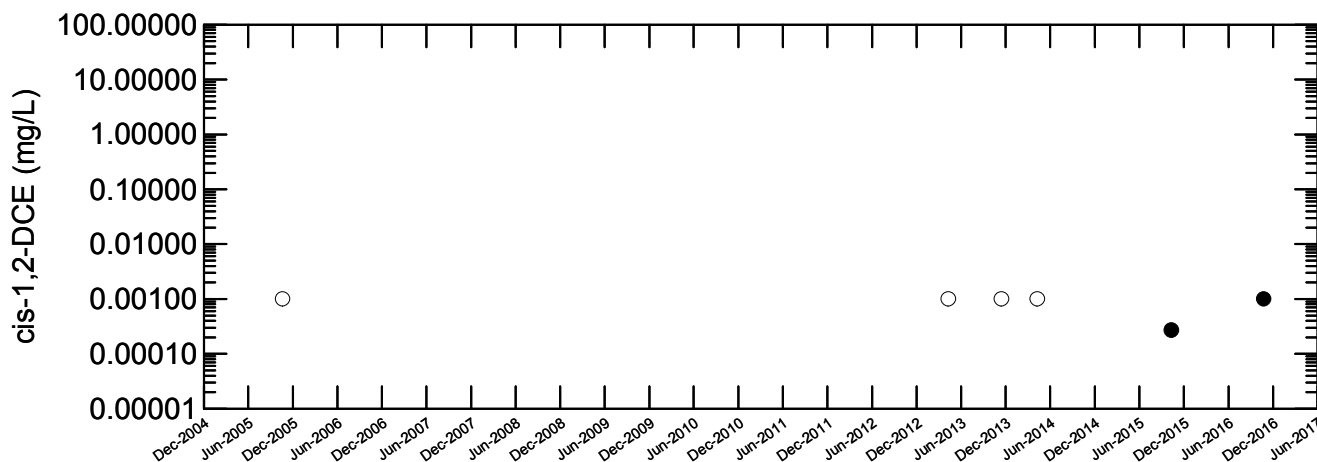
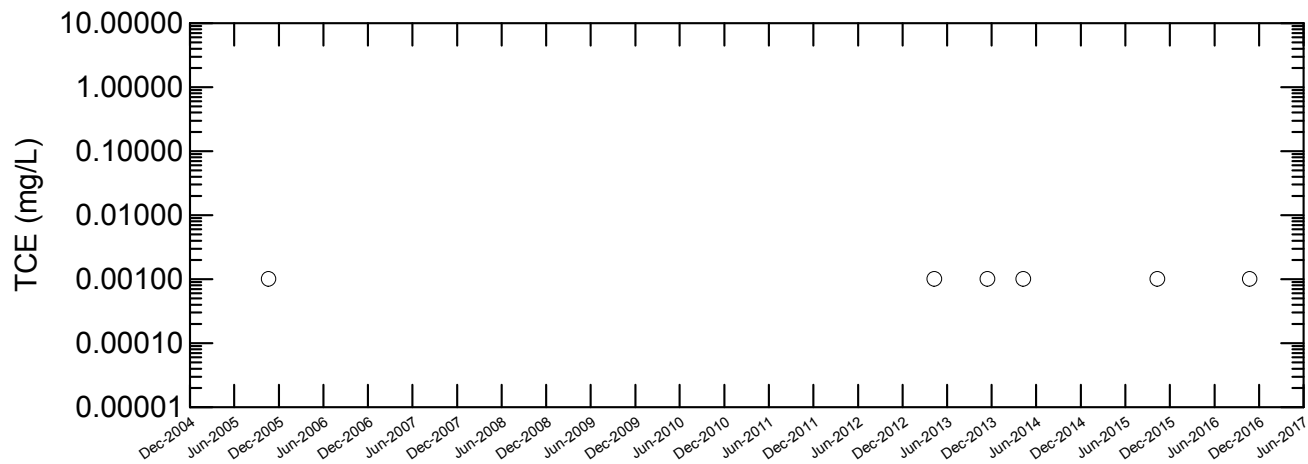
Note:

Non-detects are shown as the laboratory detection limit.

MW 83

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

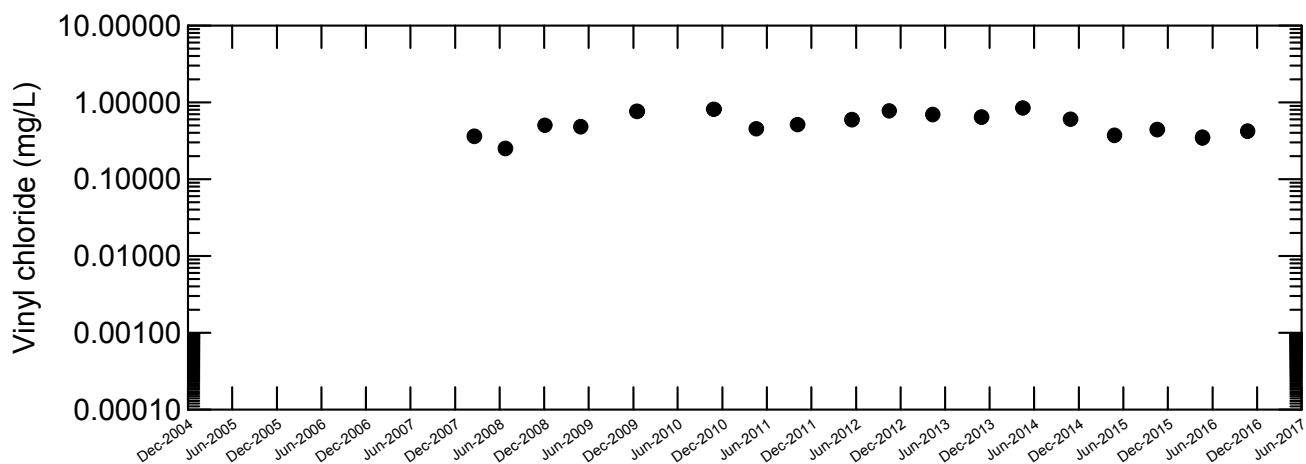
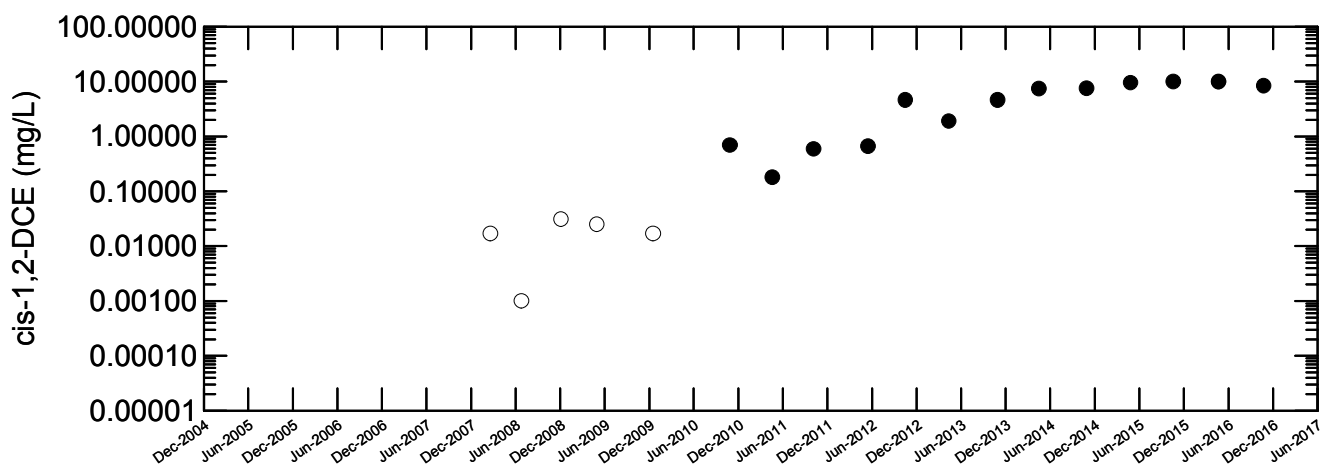
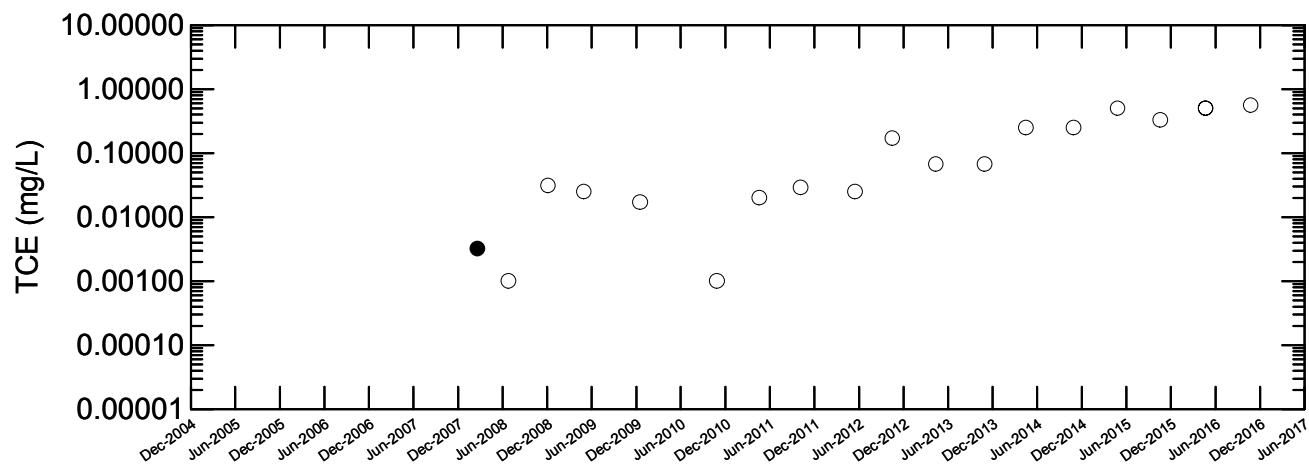
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 84

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

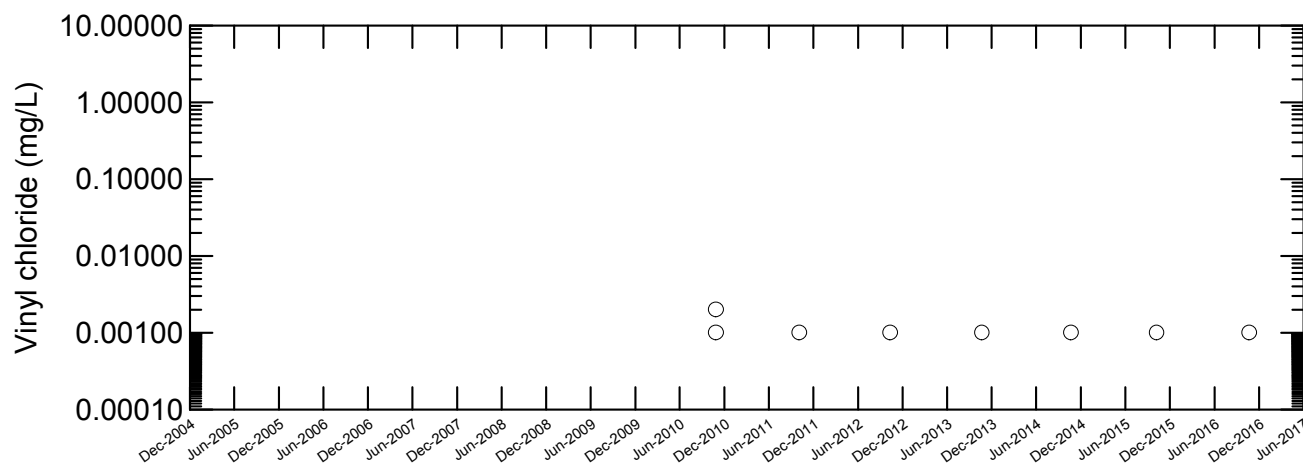
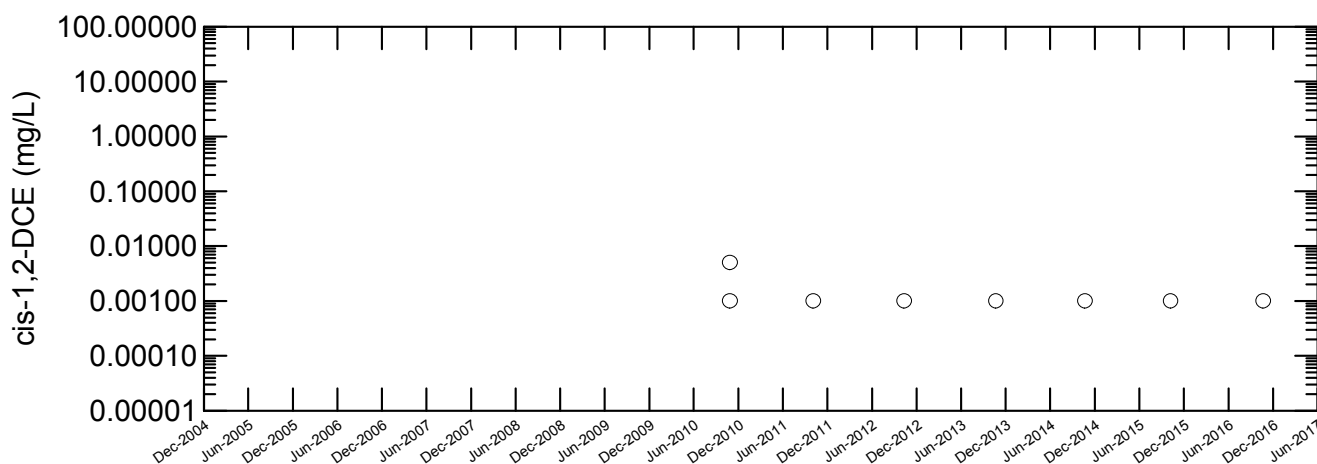
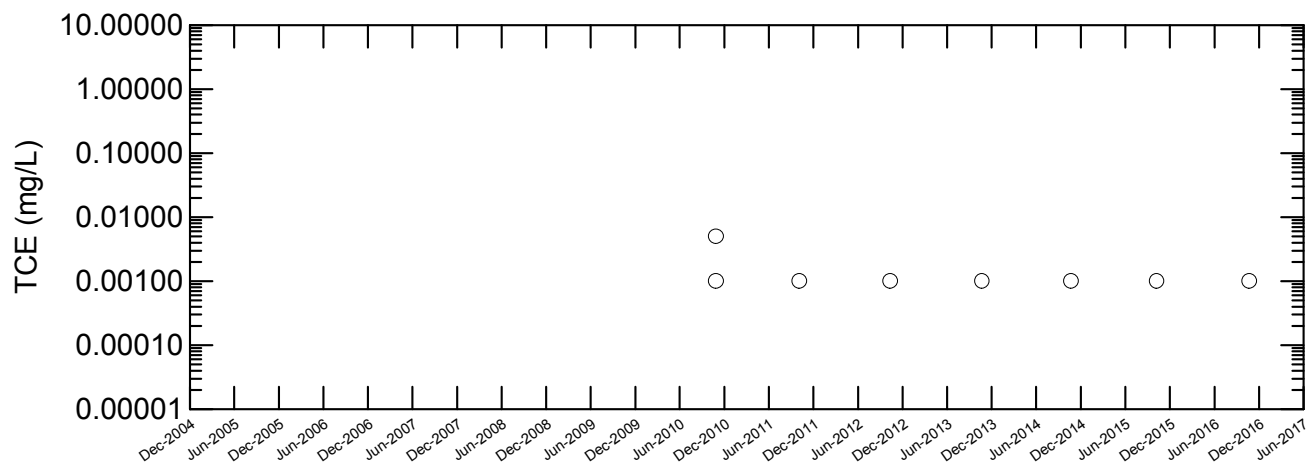
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 85

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





**Legend:**

- Detected Result
- Non-Detect Result

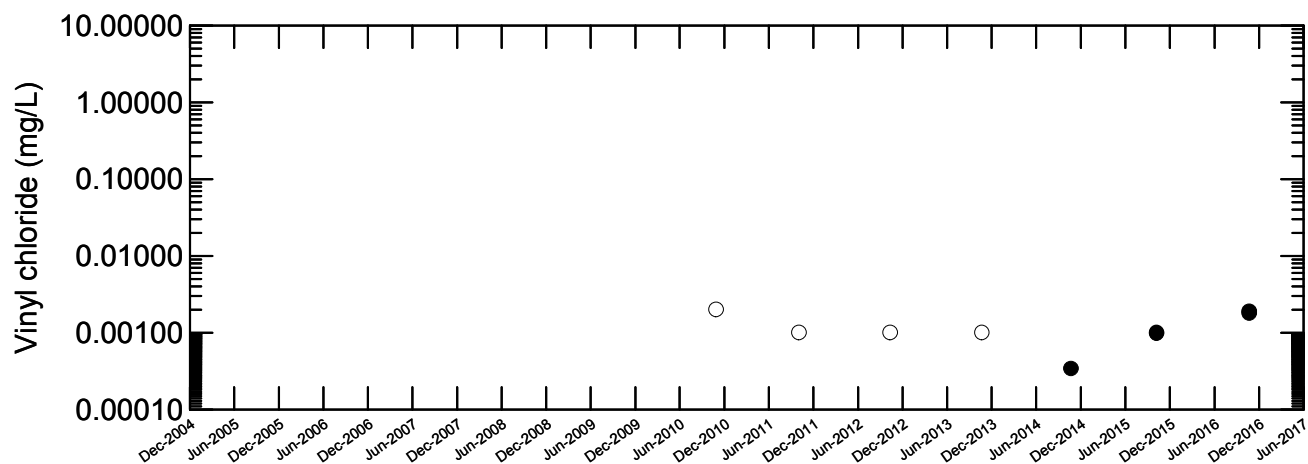
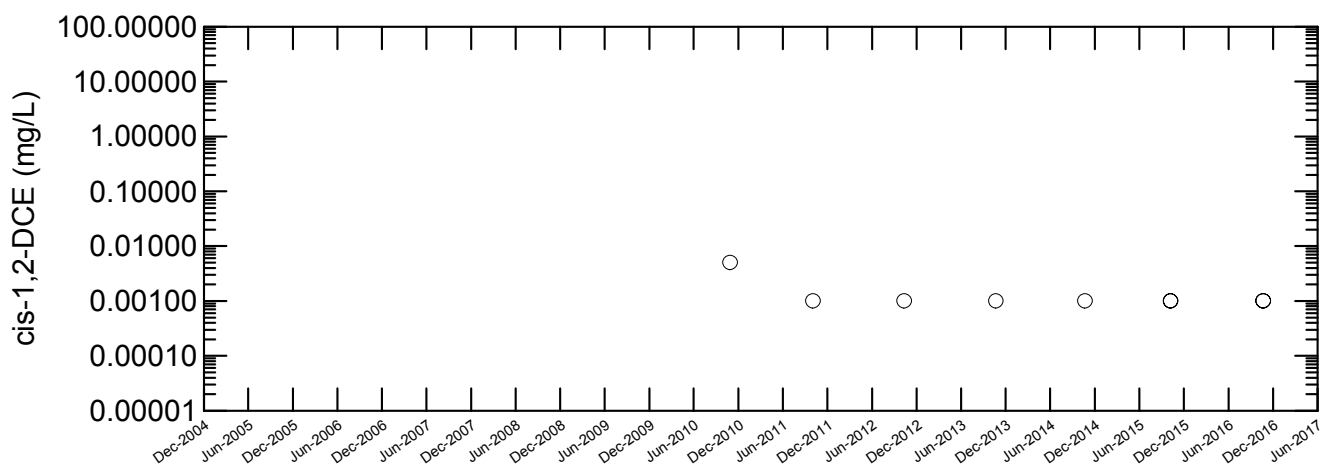
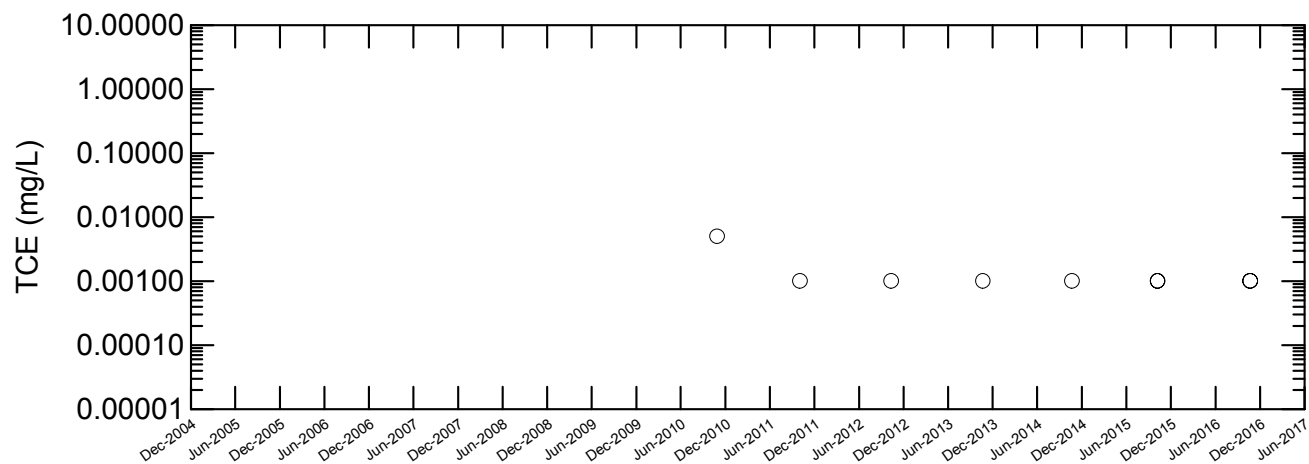
**Note:**

Non-detects are shown as the laboratory detection limit.

MW 86

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

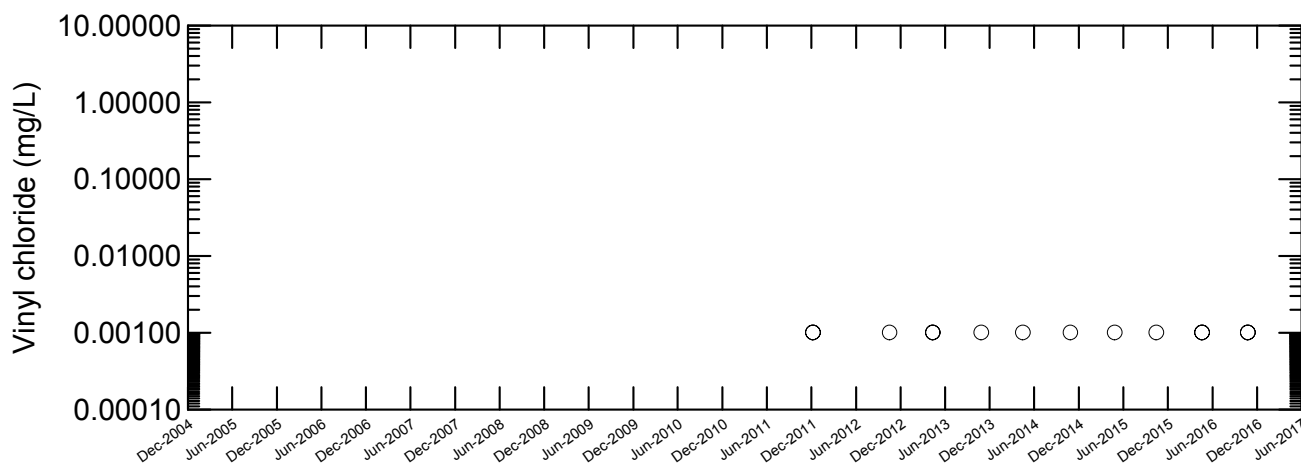
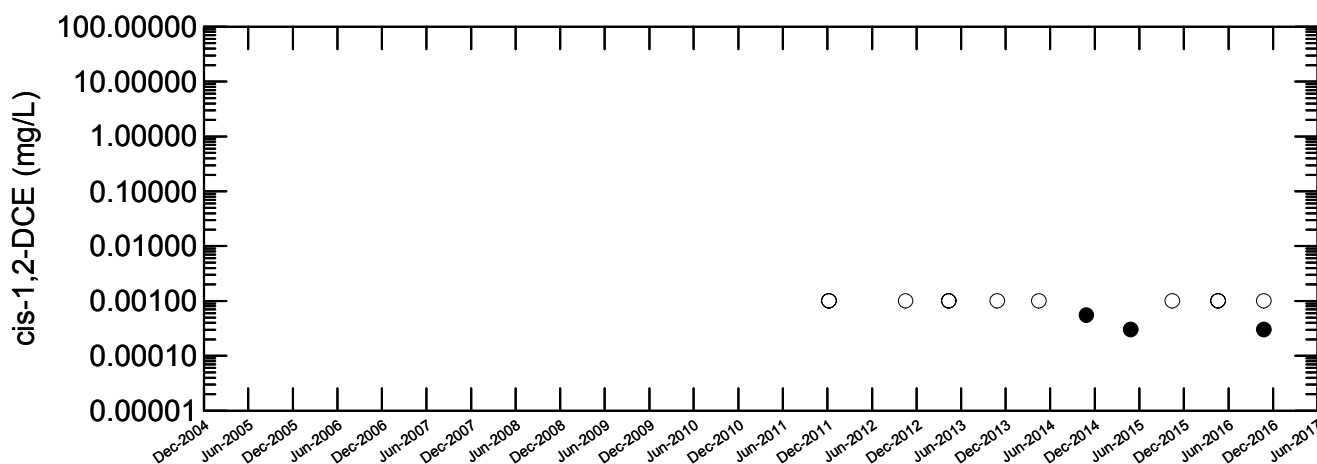
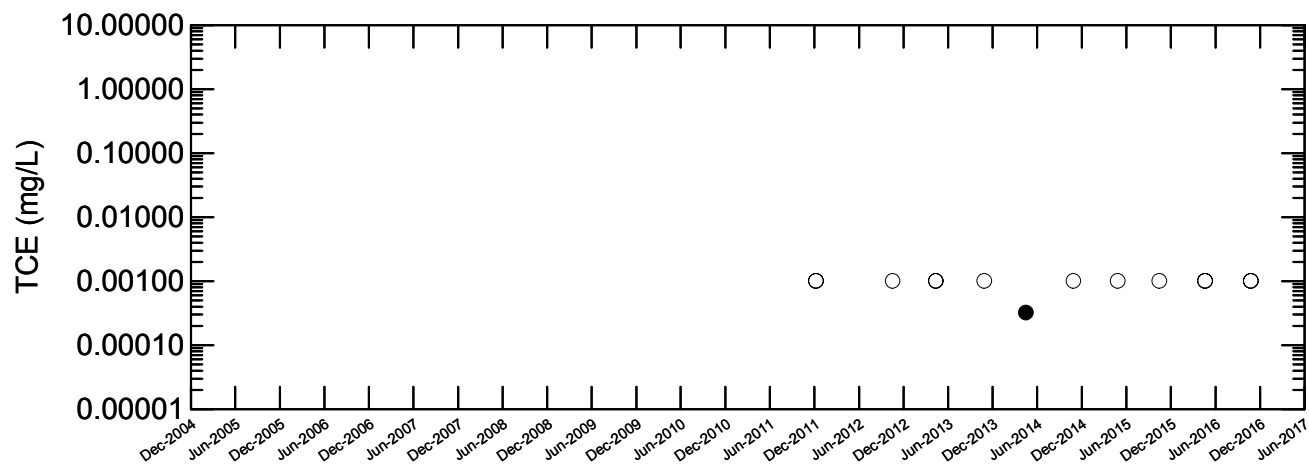
Note:

Non-detects are shown as the laboratory detection limit.

MW 88

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

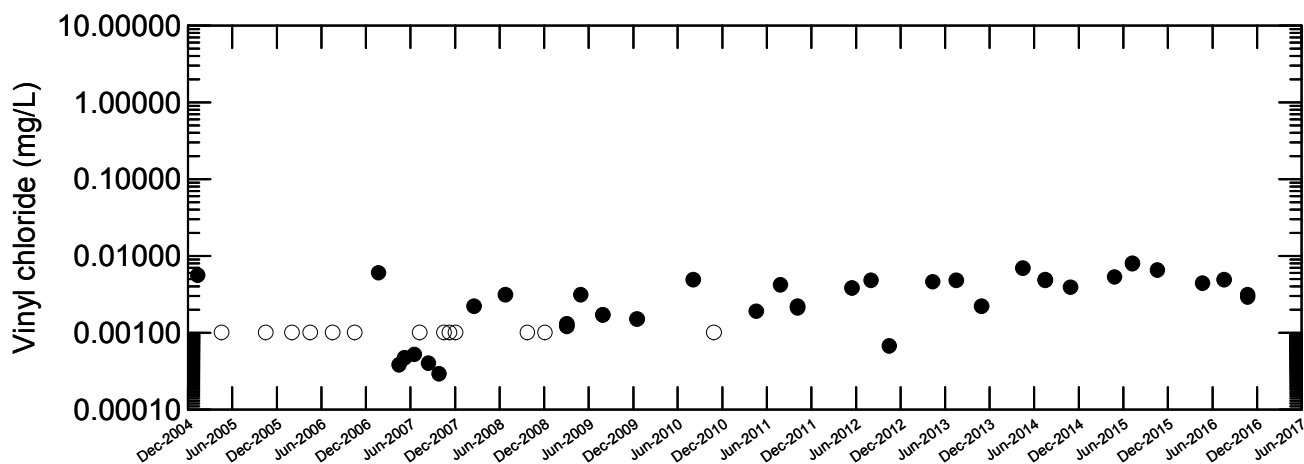
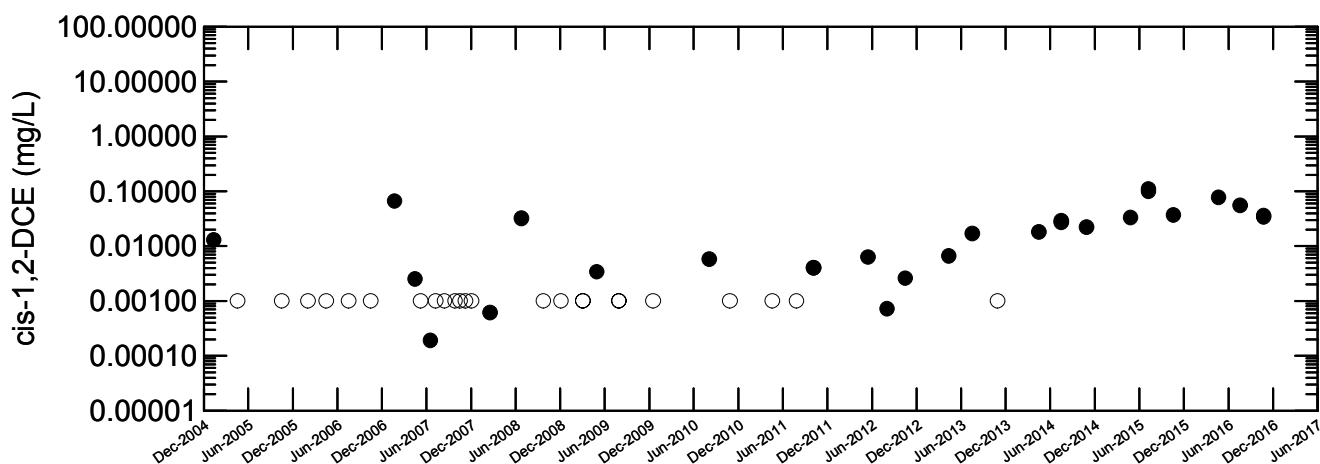
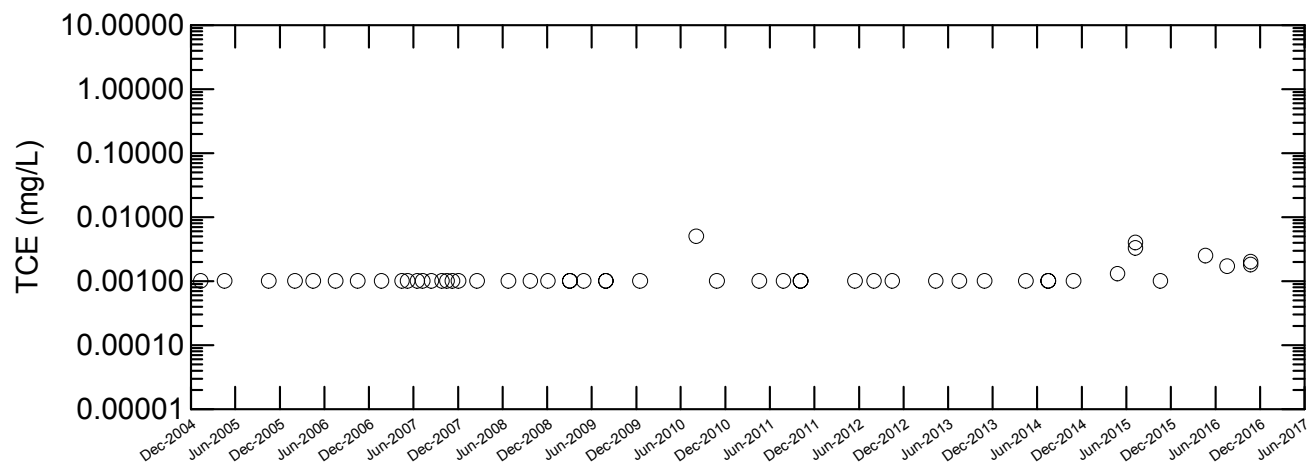
Note:

Non-detects are shown as the laboratory detection limit.

MW 89-11

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana





Legend:

- Detected Result
- Non-Detect Result

Note:

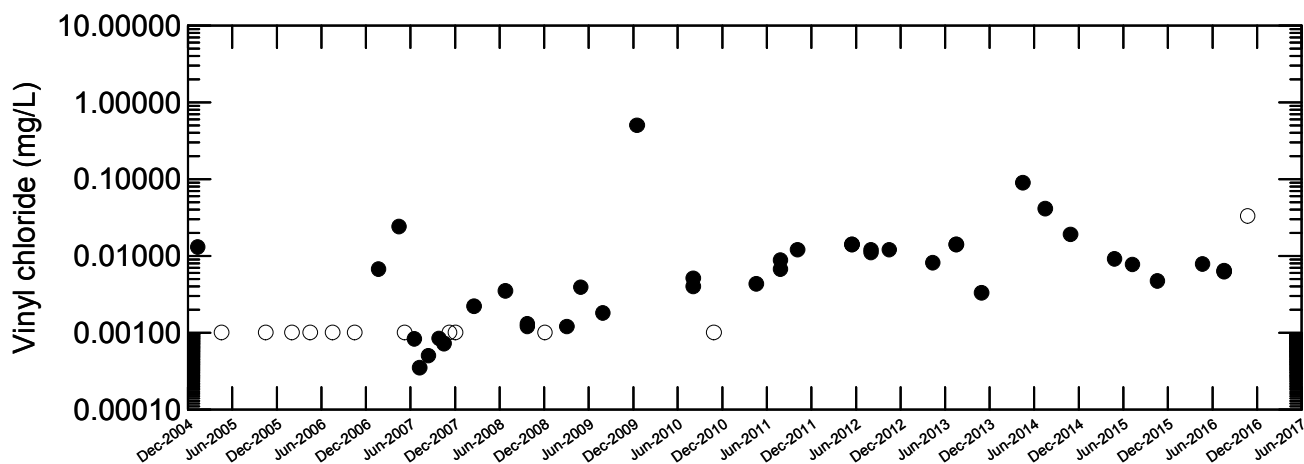
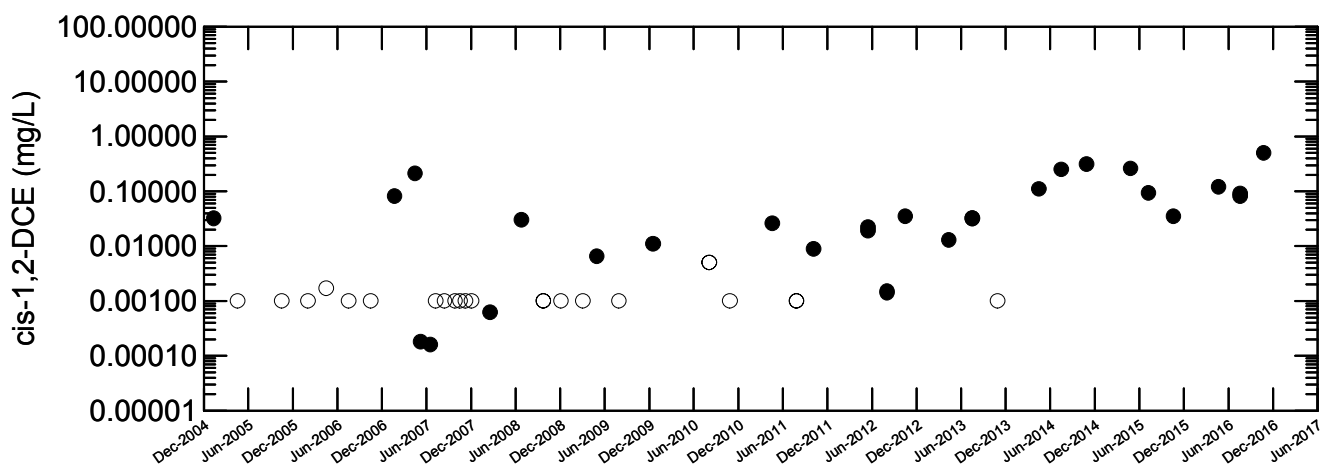
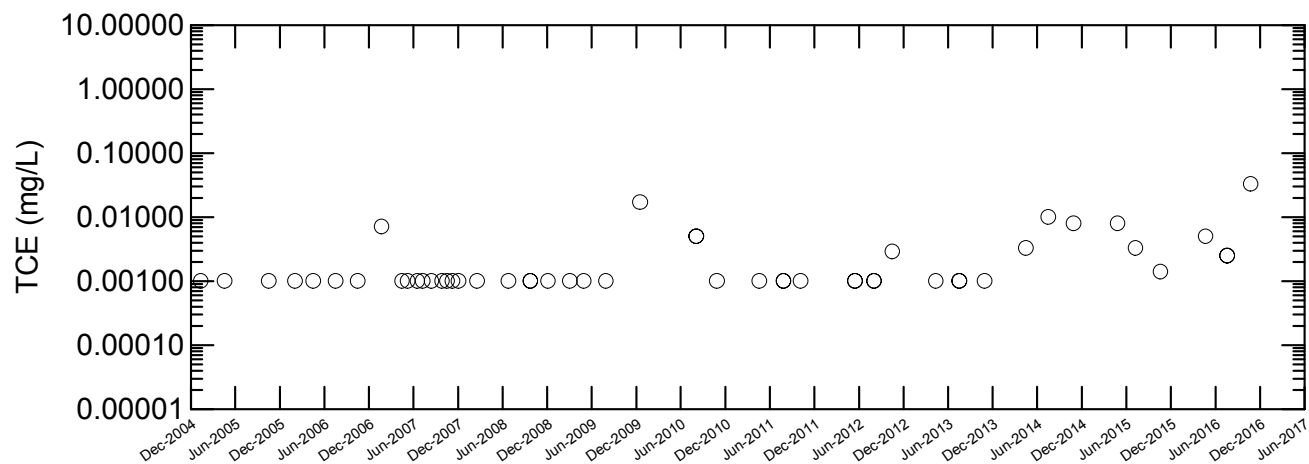
Non-detects are shown as the laboratory detection limit.

Pond Intake

Concentration vs. Time Graphs  
 2016 Annual Groundwater Monitoring Report  
 2915 Martin Luther King Jr. Boulevard  
 Anderson, Indiana







Legend:

- Detected Result
- Non-Detect Result

Note:

Non-detects are shown as the laboratory detection limit.

Pond North

Concentration vs. Time Graphs  
2016 Annual Groundwater Monitoring Report  
2915 Martin Luther King Jr. Boulevard  
Anderson, Indiana



Table D.1

**Groundwater Data**  
**2016 Annual Groundwater Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Analyte         | Location | Date       | Result (mg/L) |
|-----------------|----------|------------|---------------|
| Trichloroethene | MW-2     | 5/9/2007   | 0.001 U       |
| Trichloroethene | MW-2     | 7/10/2007  | 0.001 U       |
| Trichloroethene | MW-2     | 10/17/2007 | 0.001 U       |
| Trichloroethene | MW-2     | 6/25/2008  | 0.001 U       |
| Trichloroethene | MW-2     | 12/17/2009 | 0.001 U       |
| Trichloroethene | MW-2     | 10/28/2010 | 0.001 U       |
| Trichloroethene | MW-2     | 10/6/2011  | 0.001 U       |
| Trichloroethene | MW-2     | 10/16/2012 | 0.001 U       |
| Trichloroethene | MW-2     | 10/29/2013 | 0.001 U       |
| Trichloroethene | MW-2     | 10/29/2013 | 0.001 U       |
| Trichloroethene | MW-2     | 10/29/2014 | 0.001 U       |
| Trichloroethene | MW-2     | 10/19/2015 | 0.001 U       |
| Trichloroethene | MW-2     | 10/24/2016 | 0.001 U       |
| Trichloroethene | MW 3     | 2/1/2005   | 15            |
| Trichloroethene | MW 3     | 2/1/2005   | 15            |
| Trichloroethene | MW 3     | 10/18/2005 | 0.013         |
| Trichloroethene | MW 3     | 1/31/2006  | 7.9           |
| Trichloroethene | MW 3     | 4/18/2006  | 12            |
| Trichloroethene | MW 3     | 4/18/2006  | 11            |
| Trichloroethene | MW 3     | 7/19/2006  | 9.5           |
| Trichloroethene | MW 3     | 7/19/2006  | 10            |
| Trichloroethene | MW 3     | 10/16/2006 | 11 J          |
| Trichloroethene | MW 3     | 1/24/2007  | 10 J          |
| Trichloroethene | MW 3     | 4/17/2007  | 6.2           |
| Trichloroethene | MW 3     | 4/17/2007  | 5.9           |
| Trichloroethene | MW 3     | 7/11/2007  | 11            |
| Trichloroethene | MW 3     | 10/16/2007 | 11            |
| Trichloroethene | MW 3     | 2/18/2008  | 15            |
| Trichloroethene | MW 3     | 6/30/2008  | 18            |
| Trichloroethene | MW 3     | 6/30/2008  | 18            |
| Trichloroethene | MW 3     | 12/4/2008  | 9.2           |
| Trichloroethene | MW 3     | 4/30/2009  | 18            |
| Trichloroethene | MW 3     | 12/15/2009 | 8.3           |
| Trichloroethene | MW 3     | 12/15/2009 | 8             |
| Trichloroethene | MW 3     | 10/28/2010 | 6.79          |
| Trichloroethene | MW 3     | 10/28/2010 | 5.83          |
| Trichloroethene | MW 3     | 4/18/2011  | 14            |
| Trichloroethene | MW 3     | 10/5/2011  | 10            |
| Trichloroethene | MW 3     | 5/16/2012  | 12 J          |
| Trichloroethene | MW 3     | 10/15/2012 | 4             |
| Trichloroethene | MW 3     | 4/9/2013   | 13            |
| Trichloroethene | MW 3     | 10/24/2013 | 4.8           |
| Trichloroethene | MW 3     | 10/24/2013 | 5.3           |
| Trichloroethene | MW 3     | 4/15/2014  | 8.6           |
| Trichloroethene | MW 3     | 10/23/2014 | 4.3           |
| Trichloroethene | MW 3     | 4/28/2015  | 8.3           |
| Trichloroethene | MW 3     | 10/14/2015 | 5.1           |
| Trichloroethene | MW 3     | 4/20/2016  | 12            |
| Trichloroethene | MW 3     | 10/25/2016 | 4.9           |
| Trichloroethene | MW-4     | 1/11/2005  | 0.05          |
| Trichloroethene | MW-4     | 10/19/2005 | 0.83 U        |
| Trichloroethene | MW-4     | 2/1/2006   | 0.001 U       |
| Trichloroethene | MW-4     | 4/18/2006  | 0.25 U        |
| Trichloroethene | MW-4     | 7/18/2006  | 0.42 U        |
| Trichloroethene | MW-4     | 10/17/2006 | 0.18 J        |
| Trichloroethene | MW-4     | 1/24/2007  | 0.5 UJ        |
| Trichloroethene | MW-4     | 4/16/2007  | 0.05 UJ       |
| Trichloroethene | MW-4     | 7/10/2007  | 1 U           |
| Trichloroethene | MW-4     | 7/10/2007  | 0.13 U        |

Table D.1

**Groundwater Data**  
**2016 Annual Groundwater Monitoring Report**  
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**Anderson, Indiana**

| Analyte         | Location | Date       | Result (mg/L)   |
|-----------------|----------|------------|-----------------|
| Trichloroethene | MW-4     | 10/17/2007 | 0.56 U          |
| Trichloroethene | MW-4     | 10/17/2007 | 0.5 U           |
| Trichloroethene | MW-4     | 2/18/2008  | 1 U             |
| Trichloroethene | MW-4     | 6/25/2008  | 1 U             |
| Trichloroethene | MW-4     | 6/25/2008  | 0.63 U          |
| Trichloroethene | MW-4     | 12/3/2008  | 1 U             |
| Trichloroethene | MW-4     | 4/30/2009  | 0.5 U           |
| Trichloroethene | MW-4     | 4/30/2009  | 0.42 U          |
| Trichloroethene | MW-4     | 12/16/2009 | 0.069 J         |
| Trichloroethene | MW-4     | 12/16/2009 | 0.36 J          |
| Trichloroethene | MW-4     | 10/28/2010 | 0.0112          |
| Trichloroethene | MW-4     | 4/20/2011  | 0.25 U          |
| Trichloroethene | MW-4     | 4/20/2011  | 0.33 U          |
| Trichloroethene | MW-4     | 10/6/2011  | 0.092 J         |
| Trichloroethene | MW-4     | 5/16/2012  | 0.25 J          |
| Trichloroethene | MW-4     | 10/16/2012 | 0.99            |
| Trichloroethene | MW-4     | 4/12/2013  | 0.74            |
| Trichloroethene | MW-4     | 10/29/2013 | 1.5             |
| Trichloroethene | MW-4     | 4/16/2014  | 0.47 J / 0.52   |
| Trichloroethene | MW-4     | 10/29/2014 | 1.7             |
| Trichloroethene | MW-4     | 4/27/2015  | 0.5             |
| Trichloroethene | MW-4     | 10/19/2015 | 1               |
| Trichloroethene | MW-4     | 4/22/2016  | 0.8             |
| Trichloroethene | MW-4     | 10/24/2016 | 1.7             |
| Trichloroethene | MW 8     | 2/2/2005   | 0.35            |
| Trichloroethene | MW 8     | 10/17/2005 | 0.14 J          |
| Trichloroethene | MW 8     | 10/17/2005 | 0.13 J          |
| Trichloroethene | MW 8     | 2/1/2006   | 0.8 J           |
| Trichloroethene | MW 8     | 4/17/2006  | 0.4 J           |
| Trichloroethene | MW 8     | 7/18/2006  | 0.15 J          |
| Trichloroethene | MW 8     | 10/16/2006 | 0.86            |
| Trichloroethene | MW 8     | 1/23/2007  | 0.4 J           |
| Trichloroethene | MW 8     | 4/16/2007  | 0.51 J          |
| Trichloroethene | MW 8     | 7/10/2007  | 0.84            |
| Trichloroethene | MW 8     | 10/15/2007 | 1.4             |
| Trichloroethene | MW 8     | 6/27/2008  | 0.58 J          |
| Trichloroethene | MW 8     | 12/15/2009 | 0.046           |
| Trichloroethene | MW 8     | 10/27/2010 | 0.248           |
| Trichloroethene | MW 8     | 4/18/2011  | 0.33            |
| Trichloroethene | MW 8     | 10/5/2011  | 0.34            |
| Trichloroethene | MW 8     | 5/15/2012  | 0.085 J         |
| Trichloroethene | MW 8     | 5/15/2012  | 0.071 J         |
| Trichloroethene | MW 8     | 10/15/2012 | 0.44            |
| Trichloroethene | MW 8     | 4/9/2013   | 0.12 J          |
| Trichloroethene | MW 8     | 10/24/2013 | 0.42            |
| Trichloroethene | MW 8     | 4/15/2014  | 0.19 J          |
| Trichloroethene | MW 8     | 10/23/2014 | 0.31            |
| Trichloroethene | MW 8     | 4/28/2015  | 0.33            |
| Trichloroethene | MW 8     | 10/14/2015 | 0.42            |
| Trichloroethene | MW 8     | 4/20/2016  | 0.17 J / 0.16 J |
| Trichloroethene | MW 8     | 10/21/2016 | 0.39            |
| Trichloroethene | MW 12    | 2/2/2005   | 0.16            |
| Trichloroethene | MW 12    | 10/19/2005 | 0.11 / 0.13     |
| Trichloroethene | MW 12    | 1/31/2006  | 0.15            |
| Trichloroethene | MW 12    | 4/18/2006  | 0.065           |
| Trichloroethene | MW 12    | 7/18/2006  | 0.041 / 0.041   |
| Trichloroethene | MW 12    | 10/19/2006 | 0.09 J          |
| Trichloroethene | MW 12    | 1/22/2007  | 0.038           |
| Trichloroethene | MW 12    | 4/18/2007  | 0.063 U         |

**Groundwater Data**  
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| Analyte         | Location | Date       | Result (mg/L)       |
|-----------------|----------|------------|---------------------|
| Trichloroethene | MW 12    | 7/11/2007  | 0.063               |
| Trichloroethene | MW 12    | 10/19/2007 | 0.061               |
| Trichloroethene | MW 12    | 6/27/2008  | 0.039               |
| Trichloroethene | MW 12    | 12/5/2008  | 0.036               |
| Trichloroethene | MW 12    | 4/29/2009  | 0.028               |
| Trichloroethene | MW 12    | 12/9/2009  | 0.024               |
| Trichloroethene | MW 12    | 10/26/2010 | 0.0099              |
| Trichloroethene | MW 12    | 4/20/2011  | 0.0098 J            |
| Trichloroethene | MW 12    | 10/5/2011  | 0.0073 J            |
| Trichloroethene | MW 12    | 5/15/2012  | 0.0058 J            |
| Trichloroethene | MW 12    | 10/11/2012 | 0.004 J             |
| Trichloroethene | MW 12    | 4/9/2013   | 0.0059 J            |
| Trichloroethene | MW 12    | 10/23/2013 | 0.003 J             |
| Trichloroethene | MW 12    | 4/11/2014  | 0.0017 J            |
| Trichloroethene | MW 12    | 10/24/2014 | 0.0012 J / 0.0013 J |
| Trichloroethene | MW 12    | 4/27/2015  | 0.0057 U            |
| Trichloroethene | MW 12    | 10/9/2015  | 0.005 U             |
| Trichloroethene | MW 12    | 4/21/2016  | 0.005 U             |
| Trichloroethene | MW 12    | 10/25/2016 | 0.005 U             |
| Trichloroethene | MW 14    | 2/2/2005   | 0.05 U              |
| Trichloroethene | MW 14    | 10/17/2005 | 0.001 U             |
| Trichloroethene | MW 14    | 2/1/2006   | 0.5 U               |
| Trichloroethene | MW 14    | 4/18/2006  | 0.25 U              |
| Trichloroethene | MW 14    | 7/19/2006  | 0.25 U              |
| Trichloroethene | MW 14    | 10/18/2006 | 0.36 U              |
| Trichloroethene | MW 14    | 1/24/2007  | 0.25 UJ             |
| Trichloroethene | MW 14    | 4/17/2007  | 0.028 UJ            |
| Trichloroethene | MW 14    | 7/9/2007   | 0.33 U              |
| Trichloroethene | MW 14    | 10/16/2007 | 0.42 U              |
| Trichloroethene | MW 14    | 6/30/2008  | 0.001               |
| Trichloroethene | MW 14    | 12/5/2008  | 0.5 U               |
| Trichloroethene | MW 14    | 4/29/2009  | 0.25 U              |
| Trichloroethene | MW 14    | 12/15/2009 | 0.0054 J            |
| Trichloroethene | MW 14    | 10/27/2010 | 0.01 U              |
| Trichloroethene | MW 14    | 4/18/2011  | 0.17 U              |
| Trichloroethene | MW 14    | 10/5/2011  | 0.2 U               |
| Trichloroethene | MW 14    | 5/15/2012  | 0.17 U              |
| Trichloroethene | MW 14    | 10/15/2012 | 0.2 U               |
| Trichloroethene | MW 14    | 4/9/2013   | 0.17 U              |
| Trichloroethene | MW 14    | 4/9/2013   | 0.17 U              |
| Trichloroethene | MW 14    | 10/25/2013 | 0.25 U              |
| Trichloroethene | MW 14    | 10/25/2013 | 0.2 U               |
| Trichloroethene | MW 14    | 4/15/2014  | 0.17 U / 0.17 U     |
| Trichloroethene | MW 14    | 10/24/2014 | 0.33 U              |
| Trichloroethene | MW 14    | 4/29/2015  | 0.2 U / 0.2 U       |
| Trichloroethene | MW 14    | 10/12/2015 | 0.2 U               |
| Trichloroethene | MW 14    | 4/19/2016  | 0.17 U              |
| Trichloroethene | MW 14    | 10/25/2016 | 0.2 U               |
| Trichloroethene | MW 15    | 2/1/2005   | 6.7                 |
| Trichloroethene | MW 15    | 10/18/2005 | 6.9                 |
| Trichloroethene | MW 15    | 2/1/2006   | 8.3                 |
| Trichloroethene | MW 15    | 4/18/2006  | 6                   |
| Trichloroethene | MW 15    | 7/19/2006  | 5.3                 |
| Trichloroethene | MW 15    | 10/17/2006 | 7.2 J               |
| Trichloroethene | MW 15    | 1/24/2007  | 6.1                 |
| Trichloroethene | MW 15    | 4/17/2007  | 4.9                 |
| Trichloroethene | MW 15    | 7/10/2007  | 9.4                 |
| Trichloroethene | MW 15    | 7/10/2007  | 10                  |
| Trichloroethene | MW 15    | 10/16/2007 | 8                   |

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| Analyte         | Location | Date       | Result (mg/L)     |
|-----------------|----------|------------|-------------------|
| Trichloroethene | MW 15    | 2/14/2008  | 7.4               |
| Trichloroethene | MW 15    | 10/24/2013 | 8.3               |
| Trichloroethene | MW 15    | 10/23/2014 | 5.5               |
| Trichloroethene | MW 15    | 10/14/2015 | 3                 |
| Trichloroethene | MW 15    | 10/21/2016 | 2.5               |
| Trichloroethene | MW 16    | 1/17/2005  | 0.001 U           |
| Trichloroethene | MW 16    | 11/14/2013 | 0.001 U           |
| Trichloroethene | MW 16    | 4/10/2014  | 0.001 U           |
| Trichloroethene | MW 16    | 10/12/2015 | 0.001 U           |
| Trichloroethene | MW 16    | 10/23/2016 | 0.001 U           |
| Trichloroethene | MW 21    | 2/1/2005   | 0.001 U           |
| Trichloroethene | MW 21    | 10/17/2005 | 0.001 U           |
| Trichloroethene | MW 21    | 2/1/2006   | 0.00066 J         |
| Trichloroethene | MW 21    | 4/17/2006  | 0.001 U           |
| Trichloroethene | MW 21    | 7/18/2006  | 0.001 U           |
| Trichloroethene | MW 21    | 10/16/2006 | 0.001 U           |
| Trichloroethene | MW 21    | 1/23/2007  | 0.001 U           |
| Trichloroethene | MW 21    | 4/16/2007  | 0.001 U           |
| Trichloroethene | MW 21    | 7/9/2007   | 0.001 U           |
| Trichloroethene | MW 21    | 10/15/2007 | 0.001 U           |
| Trichloroethene | MW 21    | 10/14/2015 | 0.001 U           |
| Trichloroethene | MW 21    | 10/21/2016 | 0.001 U           |
| Trichloroethene | MW 28    | 10/18/2005 | 0.0063 U          |
| Trichloroethene | MW 28    | 10/19/2006 | 0.00015 J         |
| Trichloroethene | MW 28    | 10/18/2007 | 0.0071 U          |
| Trichloroethene | MW 28    | 6/24/2008  | 0.0042 U          |
| Trichloroethene | MW 28    | 12/4/2008  | 0.005 U           |
| Trichloroethene | MW 28    | 4/29/2009  | 0.005 U           |
| Trichloroethene | MW 28    | 12/4/2009  | 0.0063 U          |
| Trichloroethene | MW 28    | 10/26/2010 | 0.005 U           |
| Trichloroethene | MW 28    | 4/19/2011  | 0.002 U           |
| Trichloroethene | MW 28    | 10/3/2011  | 0.0033 U          |
| Trichloroethene | MW 28    | 5/14/2012  | 0.0033 U          |
| Trichloroethene | MW 28    | 10/10/2012 | 0.004 U           |
| Trichloroethene | MW 28    | 4/10/2013  | 0.0067 U          |
| Trichloroethene | MW 28    | 10/23/2013 | 0.0091 U          |
| Trichloroethene | MW 28    | 4/15/2014  | 0.014 U / 0.014 U |
| Trichloroethene | MW 28    | 10/27/2014 | 0.02 U            |
| Trichloroethene | MW 28    | 4/29/2015  | 0.025 U           |
| Trichloroethene | MW 28    | 10/12/2015 | 0.04 U            |
| Trichloroethene | MW 28    | 4/19/2016  | 0.033 U           |
| Trichloroethene | MW 28    | 10/22/2016 | 0.05 U            |
| Trichloroethene | MW 31R   | 10/18/2005 | 2.1 J             |
| Trichloroethene | MW 31R   | 1/31/2006  | 2.5               |
| Trichloroethene | MW 31R   | 4/19/2006  | 1.4               |
| Trichloroethene | MW 31R   | 7/19/2006  | 0.18 J            |
| Trichloroethene | MW 31R   | 10/17/2006 | 0.12 J            |
| Trichloroethene | MW 31R   | 10/17/2006 | 0.13 J            |
| Trichloroethene | MW 31R   | 1/23/2007  | 0.97 J            |
| Trichloroethene | MW 31R   | 1/23/2007  | 0.87 J            |
| Trichloroethene | MW 31R   | 4/17/2007  | 0.93 J            |
| Trichloroethene | MW 31R   | 7/11/2007  | 1 U               |
| Trichloroethene | MW 31R   | 10/17/2007 | 0.1 U             |
| Trichloroethene | MW 31R   | 2/14/2008  | 0.74 J            |
| Trichloroethene | MW 31R   | 2/14/2008  | 0.67 J            |
| Trichloroethene | MW 31R   | 12/4/2008  | 0.83 U            |
| Trichloroethene | MW 31R   | 4/29/2009  | 0.54              |
| Trichloroethene | MW 31R   | 12/15/2009 | 2.3               |
| Trichloroethene | MW 31R   | 10/28/2010 | 0.0416            |

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| Analyte         | Location | Date       | Result (mg/L)   |
|-----------------|----------|------------|-----------------|
| Trichloroethene | MW 31R   | 4/18/2011  | 0.34            |
| Trichloroethene | MW 31R   | 10/4/2011  | 0.32            |
| Trichloroethene | MW 31R   | 5/15/2012  | 0.25 U          |
| Trichloroethene | MW 31R   | 10/15/2012 | 0.078 J         |
| Trichloroethene | MW 31R   | 4/9/2013   | 0.057 J         |
| Trichloroethene | MW 31R   | 10/24/2013 | 0.15 J          |
| Trichloroethene | MW 31R   | 4/15/2014  | 0.12 J          |
| Trichloroethene | MW 31R   | 10/27/2014 | 0.04 J          |
| Trichloroethene | MW 31R   | 4/28/2015  | 0.5 U           |
| Trichloroethene | MW 31R   | 10/14/2015 | 0.25 U          |
| Trichloroethene | MW 31R   | 4/20/2016  | 0.5 U           |
| Trichloroethene | MW 31R   | 10/21/2016 | 0.71 U / 0.71 U |
| Trichloroethene | MW 37    | 1/18/2005  | 0.001 U         |
| Trichloroethene | MW 37    | 1/18/2005  | 0.001 U         |
| Trichloroethene | MW 37    | 10/17/2007 | 0.001 U         |
| Trichloroethene | MW 37    | 6/26/2008  | 0.001 U         |
| Trichloroethene | MW 37    | 12/16/2009 | 0.001 U         |
| Trichloroethene | MW 37    | 10/27/2010 | 0.001 U         |
| Trichloroethene | MW 37    | 10/5/2011  | 0.001 U         |
| Trichloroethene | MW 37    | 10/17/2012 | 0.001 U         |
| Trichloroethene | MW 37    | 10/17/2012 | 0.001 U         |
| Trichloroethene | MW 37    | 10/25/2013 | 0.001 U         |
| Trichloroethene | MW 37    | 10/22/2014 | 0.001 U         |
| Trichloroethene | MW 37    | 10/9/2015  | 0.001 U         |
| Trichloroethene | MW 37    | 10/23/2016 | 0.001 U         |
| Trichloroethene | MW 40    | 1/12/2005  | 0.1 U           |
| Trichloroethene | MW 40    | 10/18/2005 | 0.0013 U        |
| Trichloroethene | MW 40    | 1/30/2006  | 0.5 U           |
| Trichloroethene | MW 40    | 4/17/2006  | 0.63 U          |
| Trichloroethene | MW 40    | 7/19/2006  | 0.63 U          |
| Trichloroethene | MW 40    | 10/18/2006 | 0.0011          |
| Trichloroethene | MW 40    | 1/23/2007  | 0.5 UJ          |
| Trichloroethene | MW 40    | 4/18/2007  | 0.042 UJ        |
| Trichloroethene | MW 40    | 7/10/2007  | 0.83 U          |
| Trichloroethene | MW 40    | 10/18/2007 | 0.5 U           |
| Trichloroethene | MW 40    | 2/15/2008  | 0.63 U          |
| Trichloroethene | MW 40    | 6/26/2008  | 0.14 J          |
| Trichloroethene | MW 40    | 12/3/2008  | 0.71 U          |
| Trichloroethene | MW 40    | 12/3/2008  | 0.83 U          |
| Trichloroethene | MW 40    | 4/30/2009  | 0.5 U           |
| Trichloroethene | MW 40    | 12/9/2009  | 0.25 U          |
| Trichloroethene | MW 40    | 10/26/2010 | 0.125 U         |
| Trichloroethene | MW 40    | 4/19/2011  | 0.25 U          |
| Trichloroethene | MW 40    | 10/4/2011  | 0.25 U          |
| Trichloroethene | MW 40    | 5/14/2012  | 0.13 J          |
| Trichloroethene | MW 40    | 10/10/2012 | 0.073 J         |
| Trichloroethene | MW 40    | 4/9/2013   | 0.13 J          |
| Trichloroethene | MW 40    | 10/24/2013 | 0.15 J          |
| Trichloroethene | MW 40    | 4/14/2014  | 0.22 J          |
| Trichloroethene | MW 40    | 10/27/2014 | 0.21 J          |
| Trichloroethene | MW 40    | 4/28/2015  | 0.32 J          |
| Trichloroethene | MW 40    | 10/13/2015 | 0.26            |
| Trichloroethene | MW 40    | 4/19/2016  | 0.31            |
| Trichloroethene | MW 40    | 10/20/2016 | 0.16 J          |
| Trichloroethene | MW 41    | 10/17/2005 | 0.28 U          |
| Trichloroethene | MW 41    | 1/30/2006  | 0.5 U           |
| Trichloroethene | MW 41    | 4/17/2006  | 0.00017 J       |
| Trichloroethene | MW 41    | 4/17/2006  | 0.00015 J       |
| Trichloroethene | MW 41    | 7/18/2006  | 0.31 U          |

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| Analyte         | Location | Date       | Result (mg/L)   |
|-----------------|----------|------------|-----------------|
| Trichloroethene | MW 41    | 10/18/2006 | 0.5 U           |
| Trichloroethene | MW 41    | 1/23/2007  | 0.5 UJ          |
| Trichloroethene | MW 41    | 4/18/2007  | 0.031 UJ        |
| Trichloroethene | MW 41    | 4/18/2007  | 0.013 U         |
| Trichloroethene | MW 41    | 7/10/2007  | 0.63 U          |
| Trichloroethene | MW 41    | 10/18/2007 | 0.5 U           |
| Trichloroethene | MW 41    | 2/15/2008  | 0.42 U          |
| Trichloroethene | MW 41    | 6/24/2008  | 0.5 U           |
| Trichloroethene | MW 41    | 12/3/2008  | 0.5 U           |
| Trichloroethene | MW 41    | 4/28/2009  | 0.5 U           |
| Trichloroethene | MW 41    | 12/3/2009  | 0.25 U          |
| Trichloroethene | MW 41    | 10/25/2010 | 0.125 U         |
| Trichloroethene | MW 41    | 4/19/2011  | 0.17 U          |
| Trichloroethene | MW 41    | 10/4/2011  | 0.2 U           |
| Trichloroethene | MW 41    | 5/14/2012  | 0.2 U           |
| Trichloroethene | MW 41    | 10/10/2012 | 0.2 U           |
| Trichloroethene | MW 41    | 4/9/2013   | 0.2 U           |
| Trichloroethene | MW 41    | 10/25/2013 | 0.33 U          |
| Trichloroethene | MW 41    | 4/14/2014  | 0.2 U           |
| Trichloroethene | MW 41    | 10/23/2014 | 0.63 U          |
| Trichloroethene | MW 41    | 4/29/2015  | 0.33 U          |
| Trichloroethene | MW 41    | 10/12/2015 | 0.33 U / 0.25 U |
| Trichloroethene | MW 41    | 4/19/2016  | 0.2 U           |
| Trichloroethene | MW 41    | 10/23/2016 | 0.33 U          |
| Trichloroethene | MW 42    | 10/18/2005 | 0.001 U         |
| Trichloroethene | MW 42    | 1/30/2006  | 0.5 U           |
| Trichloroethene | MW 42    | 1/30/2006  | 0.5 U           |
| Trichloroethene | MW 42    | 4/17/2006  | 0.00011 J       |
| Trichloroethene | MW 42    | 7/18/2006  | 0.31 U          |
| Trichloroethene | MW 42    | 10/18/2006 | 0.42 U          |
| Trichloroethene | MW 42    | 1/23/2007  | 0.5 UJ          |
| Trichloroethene | MW 42    | 1/23/2007  | 0.5 UJ          |
| Trichloroethene | MW 42    | 4/18/2007  | 0.031 UJ        |
| Trichloroethene | MW 42    | 7/10/2007  | 0.71 U          |
| Trichloroethene | MW 42    | 10/18/2007 | 0.5 U           |
| Trichloroethene | MW 42    | 2/15/2008  | 0.42 U          |
| Trichloroethene | MW 42    | 6/24/2008  | 0.5 U           |
| Trichloroethene | MW 42    | 12/3/2008  | 0.5 U           |
| Trichloroethene | MW 42    | 4/28/2009  | 0.5 U           |
| Trichloroethene | MW 42    | 12/3/2009  | 0.25 U          |
| Trichloroethene | MW 42    | 10/25/2010 | 0.125 U         |
| Trichloroethene | MW 42    | 4/19/2011  | 0.17 U          |
| Trichloroethene | MW 42    | 10/4/2011  | 0.2 U           |
| Trichloroethene | MW 42    | 5/14/2012  | 0.25 U          |
| Trichloroethene | MW 42    | 10/10/2012 | 0.17 U          |
| Trichloroethene | MW 42    | 4/9/2013   | 0.2 U           |
| Trichloroethene | MW 42    | 10/25/2013 | 0.2 U           |
| Trichloroethene | MW 42    | 4/14/2014  | 0.17 U          |
| Trichloroethene | MW 42    | 10/23/2014 | 0.2 U           |
| Trichloroethene | MW 42    | 4/29/2015  | 0.2 U           |
| Trichloroethene | MW 42    | 10/12/2015 | 0.17 U          |
| Trichloroethene | MW 42    | 4/19/2016  | 0.17 U          |
| Trichloroethene | MW 42    | 10/23/2016 | 0.2 U           |
| Trichloroethene | MW 51    | 4/29/2009  | 0.19            |
| Trichloroethene | MW 51    | 12/14/2009 | 0.3             |
| Trichloroethene | MW 51    | 10/27/2010 | 0.24 J          |
| Trichloroethene | MW 51    | 4/20/2011  | 0.18            |
| Trichloroethene | MW 51    | 10/5/2011  | 0.21            |
| Trichloroethene | MW 51    | 5/14/2012  | 0.18            |

Table D.1

**Groundwater Data**  
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| Analyte         | Location | Date       | Result (mg/L)      |
|-----------------|----------|------------|--------------------|
| Trichloroethene | MW 51    | 10/12/2012 | 0.2                |
| Trichloroethene | MW 51    | 4/9/2013   | 0.21               |
| Trichloroethene | MW 51    | 10/23/2013 | 0.19               |
| Trichloroethene | MW 51    | 4/16/2014  | 0.16               |
| Trichloroethene | MW 51    | 10/21/2014 | 0.18               |
| Trichloroethene | MW 51    | 4/28/2015  | 0.14 / 0.16        |
| Trichloroethene | MW 51    | 10/9/2015  | 0.16               |
| Trichloroethene | MW 51    | 4/20/2016  | 0.15               |
| Trichloroethene | MW 51    | 10/23/2016 | 0.14               |
| Trichloroethene | MW 56    | 1/11/2005  | 0.001 U            |
| Trichloroethene | MW 56    | 10/19/2005 | 0.001 U            |
| Trichloroethene | MW 56    | 10/18/2006 | 0.00067 J          |
| Trichloroethene | MW 56    | 10/18/2007 | 0.001 U            |
| Trichloroethene | MW 56    | 6/26/2008  | 0.001 U            |
| Trichloroethene | MW 56    | 12/17/2009 | 0.001 U            |
| Trichloroethene | MW 56    | 10/28/2010 | 0.001 U            |
| Trichloroethene | MW 56    | 10/6/2011  | 0.001 U            |
| Trichloroethene | MW 56    | 10/16/2012 | 0.001 U            |
| Trichloroethene | MW 56    | 10/29/2013 | 0.001 U            |
| Trichloroethene | MW 56    | 10/29/2014 | 0.001 U / 0.001 U  |
| Trichloroethene | MW 56    | 10/19/2015 | 0.001 U            |
| Trichloroethene | MW 56    | 10/24/2016 | 0.001 U            |
| Trichloroethene | MW 58    | 10/20/2015 | 0.0057 U / 0.005 U |
| Trichloroethene | MW 58    | 10/25/2016 | 0.05 U             |
| Trichloroethene | MW 61    | 1/11/2005  | 0.001 U            |
| Trichloroethene | MW 61    | 6/24/2008  | 0.001 U            |
| Trichloroethene | MW 61    | 12/3/2009  | 0.001 U            |
| Trichloroethene | MW 61    | 10/26/2010 | 0.005 U            |
| Trichloroethene | MW 61    | 10/26/2010 | 0.005 U            |
| Trichloroethene | MW 61    | 10/3/2011  | 0.001 U            |
| Trichloroethene | MW 61    | 10/10/2012 | 0.001 U            |
| Trichloroethene | MW 61    | 10/23/2013 | 0.001 U            |
| Trichloroethene | MW 61    | 10/21/2014 | 0.001 U            |
| Trichloroethene | MW 61    | 10/9/2015  | 0.001 U            |
| Trichloroethene | MW 61    | 10/22/2016 | 0.001 U            |
| Trichloroethene | MW 64    | 1/11/2005  | 0.001 U            |
| Trichloroethene | MW 64    | 10/19/2005 | 0.0002 J           |
| Trichloroethene | MW 64    | 10/18/2006 | 0.00011 J          |
| Trichloroethene | MW 64    | 10/19/2007 | 0.00014 J          |
| Trichloroethene | MW 64    | 2/18/2008  | 0.037              |
| Trichloroethene | MW 64    | 2/18/2008  | 0.063              |
| Trichloroethene | MW 64    | 6/26/2008  | 0.001 U            |
| Trichloroethene | MW 64    | 12/8/2009  | 0.00011 J          |
| Trichloroethene | MW 64    | 12/8/2009  | 0.00014 J          |
| Trichloroethene | MW 64    | 10/25/2010 | 0.005 U            |
| Trichloroethene | MW 64    | 10/3/2011  | 0.001 U            |
| Trichloroethene | MW 64    | 10/11/2012 | 0.001 U            |
| Trichloroethene | MW 64    | 10/11/2012 | 0.001 U            |
| Trichloroethene | MW 64    | 10/22/2013 | 0.0017 U           |
| Trichloroethene | MW 64    | 10/28/2014 | 0.0067 U           |
| Trichloroethene | MW 64    | 10/13/2015 | 0.01 U             |
| Trichloroethene | MW 64    | 10/20/2016 | 0.0025 U           |
| Trichloroethene | MW 65    | 1/10/2005  | 0.005 U            |
| Trichloroethene | MW 65    | 10/18/2007 | 0.001 U            |
| Trichloroethene | MW 65    | 2/15/2008  | 0.17 U             |
| Trichloroethene | MW 65    | 6/27/2008  | 0.031 U            |
| Trichloroethene | MW 65    | 12/4/2008  | 0.13 U             |
| Trichloroethene | MW 65    | 4/28/2009  | 0.05 U             |
| Trichloroethene | MW 65    | 12/4/2009  | 0.05 U             |



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| Analyte         | Location | Date       | Result (mg/L)      |
|-----------------|----------|------------|--------------------|
| Trichloroethene | MW 65    | 10/25/2010 | 0.125 U            |
| Trichloroethene | MW 65    | 10/3/2011  | 0.04 U             |
| Trichloroethene | MW 65    | 10/11/2012 | 0.014 U            |
| Trichloroethene | MW 65    | 10/22/2013 | 0.0057 U           |
| Trichloroethene | MW 65    | 10/22/2014 | 0.002 U / 0.0017 U |
| Trichloroethene | MW 65    | 10/8/2015  | 0.002 U            |
| Trichloroethene | MW 65    | 10/19/2016 | 0.001 U            |
| Trichloroethene | MW 66    | 1/11/2005  | 0.001 U            |
| Trichloroethene | MW 66    | 1/11/2005  | 0.001 U            |
| Trichloroethene | MW 66    | 10/18/2005 | 0.001 U            |
| Trichloroethene | MW 66    | 10/18/2006 | 0.001 U            |
| Trichloroethene | MW 66    | 10/19/2007 | 0.001 U            |
| Trichloroethene | MW 66    | 10/19/2007 | 0.001 U            |
| Trichloroethene | MW 66    | 2/18/2008  | 0.00034 J          |
| Trichloroethene | MW 66    | 6/26/2008  | 0.001 U            |
| Trichloroethene | MW 66    | 12/4/2008  | 0.001 U            |
| Trichloroethene | MW 66    | 4/28/2009  | 0.001 U            |
| Trichloroethene | MW 66    | 4/28/2009  | 0.001 U            |
| Trichloroethene | MW 66    | 12/8/2009  | 0.001 U            |
| Trichloroethene | MW 66    | 10/25/2010 | 0.005 U            |
| Trichloroethene | MW 66    | 4/19/2011  | 0.01 U             |
| Trichloroethene | MW 66    | 4/19/2011  | 0.01 U             |
| Trichloroethene | MW 66    | 10/3/2011  | 0.017 U            |
| Trichloroethene | MW 66    | 5/14/2012  | 0.0083 U           |
| Trichloroethene | MW 66    | 10/11/2012 | 0.013 U            |
| Trichloroethene | MW 66    | 4/10/2013  | 0.017 U            |
| Trichloroethene | MW 66    | 10/22/2013 | 0.025 U            |
| Trichloroethene | MW 66    | 4/11/2014  | 0.011 U            |
| Trichloroethene | MW 66    | 10/27/2014 | 0.02 U             |
| Trichloroethene | MW 66    | 4/27/2015  | 0.025 U            |
| Trichloroethene | MW 66    | 10/13/2015 | 0.04 U             |
| Trichloroethene | MW 66    | 4/20/2016  | 0.05 U             |
| Trichloroethene | MW 66    | 10/20/2016 | 0.1 U              |
| Trichloroethene | MW 68    | 1/18/2005  | 0.1                |
| Trichloroethene | MW 68    | 10/19/2005 | 0.35 J             |
| Trichloroethene | MW 68    | 10/19/2005 | 0.32 J             |
| Trichloroethene | MW 68    | 1/31/2006  | 0.43 J             |
| Trichloroethene | MW 68    | 4/18/2006  | 0.5 U              |
| Trichloroethene | MW 68    | 7/19/2006  | 0.4 J              |
| Trichloroethene | MW 68    | 10/19/2006 | 1.1 J              |
| Trichloroethene | MW 68    | 1/23/2007  | 0.63 J             |
| Trichloroethene | MW 68    | 4/18/2007  | 0.41 J             |
| Trichloroethene | MW 68    | 7/9/2007   | 2.4                |
| Trichloroethene | MW 68    | 10/16/2007 | 0.49 J             |
| Trichloroethene | MW 68    | 2/19/2008  | 0.57               |
| Trichloroethene | MW 68    | 6/27/2008  | 2.6                |
| Trichloroethene | MW 68    | 12/5/2008  | 1.1                |
| Trichloroethene | MW 68    | 4/29/2009  | 1.4                |
| Trichloroethene | MW 68    | 12/16/2009 | 2.3                |
| Trichloroethene | MW 68    | 12/16/2009 | 2.4                |
| Trichloroethene | MW 68    | 10/26/2010 | 1.94               |
| Trichloroethene | MW 68    | 4/18/2011  | 2.4                |
| Trichloroethene | MW 68    | 10/4/2011  | 1.9                |
| Trichloroethene | MW 68    | 10/4/2011  | 1.9                |
| Trichloroethene | MW 68    | 5/14/2012  | 1.8                |
| Trichloroethene | MW 68    | 10/12/2012 | 1.9                |
| Trichloroethene | MW 68    | 4/10/2013  | 2.1                |
| Trichloroethene | MW 68    | 4/10/2013  | 1.9                |
| Trichloroethene | MW 68    | 10/23/2013 | 2                  |

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| Analyte         | Location | Date       | Result (mg/L) |
|-----------------|----------|------------|---------------|
| Trichloroethene | MW 68    | 11/14/2013 | 1.9 / 1.9     |
| Trichloroethene | MW 68    | 4/10/2014  | 1.8           |
| Trichloroethene | MW 68    | 10/23/2014 | 1.5           |
| Trichloroethene | MW 68    | 4/28/2015  | 1.5 / 1.5     |
| Trichloroethene | MW 68    | 10/13/2015 | 1.4 / 1.3     |
| Trichloroethene | MW 68    | 4/19/2016  | 1             |
| Trichloroethene | MW 68    | 10/20/2016 | 1.7           |
| Trichloroethene | MW 75    | 1/14/2005  | 0.001 U       |
| Trichloroethene | MW 75    | 10/19/2005 | 0.001 U       |
| Trichloroethene | MW 75    | 10/19/2006 | 0.001 UJ      |
| Trichloroethene | MW 75    | 10/16/2007 | 0.001 U       |
| Trichloroethene | MW 75    | 6/30/2008  | 0.001 U       |
| Trichloroethene | MW 75    | 10/27/2010 | 0.001 U       |
| Trichloroethene | MW 75    | 10/5/2011  | 0.001 U       |
| Trichloroethene | MW 75    | 10/12/2012 | 0.001 U       |
| Trichloroethene | MW 75    | 10/23/2013 | 0.001 U       |
| Trichloroethene | MW 75    | 10/21/2014 | 0.001 U       |
| Trichloroethene | MW 75    | 10/23/2016 | 0.001 U       |
| Trichloroethene | MW 76    | 1/14/2005  | 0.001 U       |
| Trichloroethene | MW 76    | 10/20/2005 | 0.001 U       |
| Trichloroethene | MW 76    | 10/19/2006 | 0.001 UJ      |
| Trichloroethene | MW 76    | 10/16/2007 | 0.001 U       |
| Trichloroethene | MW 76    | 10/27/2010 | 0.001 U       |
| Trichloroethene | MW 76    | 10/5/2011  | 0.001 U       |
| Trichloroethene | MW 76    | 10/5/2011  | 0.001 U       |
| Trichloroethene | MW 76    | 10/12/2012 | 0.00021 J     |
| Trichloroethene | MW 76    | 10/23/2013 | 0.001 U       |
| Trichloroethene | MW 76    | 10/23/2013 | 0.001 U       |
| Trichloroethene | MW 76    | 10/21/2014 | 0.001 U       |
| Trichloroethene | MW 79    | 1/13/2005  | 0.12          |
| Trichloroethene | MW 79    | 10/15/2007 | 0.05 U        |
| Trichloroethene | MW 79    | 12/5/2008  | 0.071 U       |
| Trichloroethene | MW 79    | 4/29/2009  | 0.05 U        |
| Trichloroethene | MW 79    | 12/14/2009 | 0.05 U        |
| Trichloroethene | MW 79    | 10/27/2010 | 0.001 U       |
| Trichloroethene | MW 79    | 4/20/2011  | 0.04 U        |
| Trichloroethene | MW 79    | 10/4/2011  | 0.067 U       |
| Trichloroethene | MW 79    | 5/15/2012  | 0.05 U        |
| Trichloroethene | MW 79    | 10/15/2012 | 0.071 U       |
| Trichloroethene | MW 79    | 10/15/2012 | 0.071 U       |
| Trichloroethene | MW 79    | 4/9/2013   | 0.083 U       |
| Trichloroethene | MW 79    | 10/28/2013 | 0.05 U        |
| Trichloroethene | MW 79    | 4/15/2014  | 0.1 U         |
| Trichloroethene | MW 79    | 10/28/2014 | 0.1 U / 0.1 U |
| Trichloroethene | MW 79    | 4/29/2015  | 0.1 U         |
| Trichloroethene | MW 79    | 10/13/2015 | 0.083 U       |
| Trichloroethene | MW 79    | 4/19/2016  | 0.1 U         |
| Trichloroethene | MW 79    | 10/21/2016 | 0.1 U         |
| Trichloroethene | MW 80    | 3/9/2005   | 0.001 U       |
| Trichloroethene | MW 80    | 3/9/2005   | 0.001 U       |
| Trichloroethene | MW 80    | 10/18/2005 | 0.0083 U      |
| Trichloroethene | MW 80    | 10/18/2006 | 0.00021 J     |
| Trichloroethene | MW 80    | 10/17/2007 | 0.001 U       |
| Trichloroethene | MW 80    | 6/27/2008  | 0.005 U       |
| Trichloroethene | MW 80    | 6/27/2008  | 0.005 U       |
| Trichloroethene | MW 80    | 12/8/2009  | 0.001 U       |
| Trichloroethene | MW 80    | 10/25/2010 | 0.005 U       |
| Trichloroethene | MW 80    | 10/3/2011  | 0.001 U       |
| Trichloroethene | MW 80    | 10/11/2012 | 0.001 U       |

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| Analyte         | Location | Date       | Result (mg/L)     |
|-----------------|----------|------------|-------------------|
| Trichloroethene | MW 80    | 10/22/2013 | 0.0017 U          |
| Trichloroethene | MW 80    | 10/24/2014 | 0.001 U           |
| Trichloroethene | MW 80    | 10/8/2015  | 0.0017 U          |
| Trichloroethene | MW 80    | 10/22/2016 | 0.0018 U          |
| Trichloroethene | MW 81    | 3/9/2005   | 0.001 U           |
| Trichloroethene | MW 81    | 3/30/2005  | 0.001 UJ          |
| Trichloroethene | MW 81    | 10/19/2005 | 0.001 U           |
| Trichloroethene | MW 81    | 10/18/2006 | 0.001 U           |
| Trichloroethene | MW 81    | 10/18/2006 | 0.001 U           |
| Trichloroethene | MW 81    | 10/18/2007 | 0.001 U           |
| Trichloroethene | MW 81    | 2/15/2008  | 0.001 U           |
| Trichloroethene | MW 81    | 6/26/2008  | 0.001 U           |
| Trichloroethene | MW 81    | 12/4/2009  | 0.001 U           |
| Trichloroethene | MW 81    | 10/25/2010 | 0.005 U           |
| Trichloroethene | MW 81    | 10/3/2011  | 0.002 U           |
| Trichloroethene | MW 81    | 10/11/2012 | 0.002 U           |
| Trichloroethene | MW 81    | 10/22/2013 | 0.005 U           |
| Trichloroethene | MW 81    | 10/22/2014 | 0.0067 U          |
| Trichloroethene | MW 81    | 10/8/2015  | 0.008 U           |
| Trichloroethene | MW 81    | 10/22/2016 | 0.005 U           |
| Trichloroethene | MW 82    | 3/9/2005   | 0.001 U           |
| Trichloroethene | MW 82    | 10/20/2005 | 0.001 U           |
| Trichloroethene | MW 82    | 10/19/2006 | 0.001 UJ          |
| Trichloroethene | MW 82    | 10/16/2007 | 0.001 U           |
| Trichloroethene | MW 82    | 6/27/2008  | 0.001 U           |
| Trichloroethene | MW 82    | 12/15/2009 | 0.001 U           |
| Trichloroethene | MW 82    | 10/27/2010 | 0.001 U           |
| Trichloroethene | MW 82    | 10/4/2011  | 0.001 U           |
| Trichloroethene | MW 82    | 10/23/2013 | 0.00066 J         |
| Trichloroethene | MW 82    | 10/24/2014 | 0.001 U           |
| Trichloroethene | MW 82    | 10/12/2015 | 0.001 U           |
| Trichloroethene | MW 82    | 10/23/2016 | 0.001 U           |
| Trichloroethene | MW 83    | 3/9/2005   | 0.001 U           |
| Trichloroethene | MW 83    | 10/18/2005 | 0.001 U           |
| Trichloroethene | MW 83    | 10/18/2006 | 0.001 UJ          |
| Trichloroethene | MW 83    | 10/18/2007 | 0.001 U           |
| Trichloroethene | MW 83    | 6/27/2008  | 0.001 U           |
| Trichloroethene | MW 83    | 12/8/2009  | 0.001 U           |
| Trichloroethene | MW 83    | 10/26/2010 | 0.005 U           |
| Trichloroethene | MW 83    | 10/4/2011  | 0.001 U           |
| Trichloroethene | MW 83    | 10/10/2012 | 0.001 U           |
| Trichloroethene | MW 83    | 10/24/2013 | 0.00023 J         |
| Trichloroethene | MW 83    | 10/22/2014 | 0.001 U           |
| Trichloroethene | MW 83    | 10/9/2015  | 0.001 U           |
| Trichloroethene | MW 83    | 10/22/2016 | 0.001 U / 0.001 U |
| Trichloroethene | MW 84    | 10/20/2005 | 0.001 U           |
| Trichloroethene | MW 84    | 4/10/2013  | 0.001 U           |
| Trichloroethene | MW 84    | 11/14/2013 | 0.001 U           |
| Trichloroethene | MW 84    | 4/10/2014  | 0.001 U           |
| Trichloroethene | MW 84    | 10/12/2015 | 0.001 U           |
| Trichloroethene | MW 84    | 10/24/2016 | 0.001 U           |
| Trichloroethene | MW 85    | 2/19/2008  | 0.0032 J          |
| Trichloroethene | MW 85    | 6/25/2008  | 0.001 U           |
| Trichloroethene | MW 85    | 12/4/2008  | 0.031 U           |
| Trichloroethene | MW 85    | 4/30/2009  | 0.025 U           |
| Trichloroethene | MW 85    | 12/17/2009 | 0.017 U           |
| Trichloroethene | MW 85    | 10/28/2010 | 0.001 U           |
| Trichloroethene | MW 85    | 4/20/2011  | 0.02 U            |
| Trichloroethene | MW 85    | 10/6/2011  | 0.029 U           |

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| Analyte         | Location    | Date       | Result (mg/L)     |
|-----------------|-------------|------------|-------------------|
| Trichloroethene | MW 85       | 5/16/2012  | 0.025 U           |
| Trichloroethene | MW 85       | 10/16/2012 | 0.17 U            |
| Trichloroethene | MW 85       | 4/12/2013  | 0.067 U           |
| Trichloroethene | MW 85       | 10/29/2013 | 0.067 U           |
| Trichloroethene | MW 85       | 4/16/2014  | 0.25 U            |
| Trichloroethene | MW 85       | 10/29/2014 | 0.25 U            |
| Trichloroethene | MW 85       | 4/27/2015  | 0.5 U             |
| Trichloroethene | MW 85       | 10/19/2015 | 0.33 U            |
| Trichloroethene | MW 85       | 4/22/2016  | 0.5 U / 0.5 U     |
| Trichloroethene | MW 85       | 10/24/2016 | 0.56 U            |
| Trichloroethene | MW 86       | 10/28/2010 | 0.005 U           |
| Trichloroethene | MW 86       | 10/28/2010 | 0.001 U           |
| Trichloroethene | MW 86       | 10/4/2011  | 0.001 U           |
| Trichloroethene | MW 86       | 10/11/2012 | 0.001 U           |
| Trichloroethene | MW 86       | 10/22/2013 | 0.001 U           |
| Trichloroethene | MW 86       | 10/22/2014 | 0.001 U           |
| Trichloroethene | MW 86       | 10/8/2015  | 0.001 U           |
| Trichloroethene | MW 86       | 10/22/2016 | 0.001 U           |
| Trichloroethene | MW 88       | 10/29/2010 | 0.005 U           |
| Trichloroethene | MW 88       | 10/3/2011  | 0.001 U           |
| Trichloroethene | MW 88       | 10/11/2012 | 0.001 U           |
| Trichloroethene | MW 88       | 10/22/2013 | 0.001 U           |
| Trichloroethene | MW 88       | 10/22/2014 | 0.001 U           |
| Trichloroethene | MW 88       | 10/8/2015  | 0.001 U / 0.001 U |
| Trichloroethene | MW 88       | 10/22/2016 | 0.001 U / 0.001 U |
| Trichloroethene | MW 89-11    | 12/8/2011  | 0.001 U           |
| Trichloroethene | MW 89-11    | 12/8/2011  | 0.001 U           |
| Trichloroethene | MW 89-11    | 10/17/2012 | 0.001 U           |
| Trichloroethene | MW 89-11    | 4/12/2013  | 0.001 U           |
| Trichloroethene | MW 89-11    | 4/12/2013  | 0.001 U           |
| Trichloroethene | MW 89-11    | 10/28/2013 | 0.001 U           |
| Trichloroethene | MW 89-11    | 4/16/2014  | 0.00032 J         |
| Trichloroethene | MW 89-11    | 10/28/2014 | 0.001 U           |
| Trichloroethene | MW 89-11    | 4/28/2015  | 0.001 U           |
| Trichloroethene | MW 89-11    | 10/15/2015 | 0.001 U           |
| Trichloroethene | MW 89-11    | 4/20/2016  | 0.001 U / 0.001 U |
| Trichloroethene | MW 89-11    | 10/25/2016 | 0.001 U / 0.001 U |
| Trichloroethene | MW97R-16    | 10/25/2016 | 0.001 U           |
| Trichloroethene | Pond Intake | 1/11/2005  | 0.001 U           |
| Trichloroethene | Pond Intake | 4/19/2005  | 0.001 U           |
| Trichloroethene | Pond Intake | 10/17/2005 | 0.001 U           |
| Trichloroethene | Pond Intake | 2/1/2006   | 0.001 U           |
| Trichloroethene | Pond Intake | 4/17/2006  | 0.001 U           |
| Trichloroethene | Pond Intake | 7/18/2006  | 0.001 U           |
| Trichloroethene | Pond Intake | 10/17/2006 | 0.001 U           |
| Trichloroethene | Pond Intake | 1/22/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 4/16/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 5/9/2007   | 0.001 U           |
| Trichloroethene | Pond Intake | 6/18/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 7/10/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 8/15/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 9/27/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 10/17/2007 | 0.001 U           |
| Trichloroethene | Pond Intake | 11/9/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 12/4/2007  | 0.001 U           |
| Trichloroethene | Pond Intake | 2/18/2008  | 0.001 U           |
| Trichloroethene | Pond Intake | 6/25/2008  | 0.001 U           |
| Trichloroethene | Pond Intake | 9/23/2008  | 0.001 U           |
| Trichloroethene | Pond Intake | 12/4/2008  | 0.001 U           |

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| Analyte         | Location    | Date       | Result (mg/L)      |
|-----------------|-------------|------------|--------------------|
| Trichloroethene | Pond Intake | 3/4/2009   | 0.001 U            |
| Trichloroethene | Pond Intake | 3/4/2009   | 0.001 U            |
| Trichloroethene | Pond Intake | 4/30/2009  | 0.001 U            |
| Trichloroethene | Pond Intake | 7/30/2009  | 0.001 U            |
| Trichloroethene | Pond Intake | 7/30/2009  | 0.001 U            |
| Trichloroethene | Pond Intake | 12/17/2009 | 0.001 U            |
| Trichloroethene | Pond Intake | 8/4/2010   | 0.005 U            |
| Trichloroethene | Pond Intake | 10/28/2010 | 0.001 U            |
| Trichloroethene | Pond Intake | 4/20/2011  | 0.001 U            |
| Trichloroethene | Pond Intake | 7/28/2011  | 0.001 U            |
| Trichloroethene | Pond Intake | 10/6/2011  | 0.001 U            |
| Trichloroethene | Pond Intake | 10/6/2011  | 0.001 U            |
| Trichloroethene | Pond Intake | 5/16/2012  | 0.001 U            |
| Trichloroethene | Pond Intake | 8/2/2012   | 0.001 U            |
| Trichloroethene | Pond Intake | 10/16/2012 | 0.001 U            |
| Trichloroethene | Pond Intake | 4/12/2013  | 0.001 U            |
| Trichloroethene | Pond Intake | 7/17/2013  | 0.001 U            |
| Trichloroethene | Pond Intake | 10/29/2013 | 0.001 U            |
| Trichloroethene | Pond Intake | 4/16/2014  | 0.001 U            |
| Trichloroethene | Pond Intake | 7/17/2014  | 0.001 U / 0.001 U  |
| Trichloroethene | Pond Intake | 10/29/2014 | 0.001 U            |
| Trichloroethene | Pond Intake | 4/27/2015  | 0.0013 U           |
| Trichloroethene | Pond Intake | 7/10/2015  | 0.0033 U / 0.004 U |
| Trichloroethene | Pond Intake | 10/20/2015 | 0.001 U            |
| Trichloroethene | Pond Intake | 4/22/2016  | 0.0025 U           |
| Trichloroethene | Pond Intake | 7/19/2016  | 0.0017 U           |
| Trichloroethene | Pond Intake | 10/24/2016 | 0.0018 U / 0.002 U |
| Trichloroethene | Pond North  | 1/11/2005  | 0.001 U            |
| Trichloroethene | Pond North  | 4/19/2005  | 0.001 U            |
| Trichloroethene | Pond North  | 10/17/2005 | 0.001 U            |
| Trichloroethene | Pond North  | 2/1/2006   | 0.001 U            |
| Trichloroethene | Pond North  | 4/17/2006  | 0.001 U            |
| Trichloroethene | Pond North  | 7/18/2006  | 0.001 U            |
| Trichloroethene | Pond North  | 10/17/2006 | 0.001 U            |
| Trichloroethene | Pond North  | 1/22/2007  | 0.0071 UJ          |
| Trichloroethene | Pond North  | 4/16/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 5/9/2007   | 0.001 U            |
| Trichloroethene | Pond North  | 6/18/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 7/10/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 8/15/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 9/27/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 10/17/2007 | 0.001 U            |
| Trichloroethene | Pond North  | 11/9/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 12/4/2007  | 0.001 U            |
| Trichloroethene | Pond North  | 2/18/2008  | 0.001 U            |
| Trichloroethene | Pond North  | 6/25/2008  | 0.001 U            |
| Trichloroethene | Pond North  | 9/23/2008  | 0.001 U            |
| Trichloroethene | Pond North  | 9/23/2008  | 0.001 U            |
| Trichloroethene | Pond North  | 12/4/2008  | 0.001 U            |
| Trichloroethene | Pond North  | 3/4/2009   | 0.001 U            |
| Trichloroethene | Pond North  | 4/30/2009  | 0.001 U            |
| Trichloroethene | Pond North  | 7/30/2009  | 0.001 U            |
| Trichloroethene | Pond North  | 12/17/2009 | 0.017 U            |
| Trichloroethene | Pond North  | 8/4/2010   | 0.005 U            |
| Trichloroethene | Pond North  | 8/4/2010   | 0.005 U            |
| Trichloroethene | Pond North  | 10/28/2010 | 0.001 U            |
| Trichloroethene | Pond North  | 4/20/2011  | 0.001 U            |
| Trichloroethene | Pond North  | 7/28/2011  | 0.001 U            |
| Trichloroethene | Pond North  | 7/28/2011  | 0.001 U            |

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| Analyte                | Location   | Date       | Result (mg/L)       |
|------------------------|------------|------------|---------------------|
| Trichloroethene        | Pond North | 10/6/2011  | 0.001 U             |
| Trichloroethene        | Pond North | 5/16/2012  | 0.001 U             |
| Trichloroethene        | Pond North | 5/16/2012  | 0.001 U             |
| Trichloroethene        | Pond North | 8/2/2012   | 0.001 U             |
| Trichloroethene        | Pond North | 8/2/2012   | 0.001 U             |
| Trichloroethene        | Pond North | 10/16/2012 | 0.0029 U            |
| Trichloroethene        | Pond North | 4/12/2013  | 0.001 U             |
| Trichloroethene        | Pond North | 7/17/2013  | 0.001 U             |
| Trichloroethene        | Pond North | 7/17/2013  | 0.001 U             |
| Trichloroethene        | Pond North | 10/29/2013 | 0.001 U             |
| Trichloroethene        | Pond North | 4/16/2014  | 0.0033 U            |
| Trichloroethene        | Pond North | 7/17/2014  | 0.01 U              |
| Trichloroethene        | Pond North | 10/29/2014 | 0.008 U             |
| Trichloroethene        | Pond North | 4/27/2015  | 0.008 U             |
| Trichloroethene        | Pond North | 7/10/2015  | 0.0033 U            |
| Trichloroethene        | Pond North | 10/20/2015 | 0.0014 U            |
| Trichloroethene        | Pond North | 4/22/2016  | 0.005 U             |
| Trichloroethene        | Pond North | 7/19/2016  | 0.0025 U / 0.0025 U |
| Trichloroethene        | Pond North | 10/24/2016 | 0.033 U             |
|                        |            |            |                     |
| cis-1,2-Dichloroethene | MW-2       | 5/9/2007   | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 7/10/2007  | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/17/2007 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 6/25/2008  | 0.00015 J           |
| cis-1,2-Dichloroethene | MW-2       | 12/17/2009 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/28/2010 | 0.0021              |
| cis-1,2-Dichloroethene | MW-2       | 10/6/2011  | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/16/2012 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/29/2013 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/29/2013 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/29/2014 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/19/2015 | 0.001 U             |
| cis-1,2-Dichloroethene | MW-2       | 10/24/2016 | 0.001 U             |
| cis-1,2-Dichloroethene | MW 3       | 2/1/2005   | 5.3                 |
| cis-1,2-Dichloroethene | MW 3       | 2/1/2005   | 5.3                 |
| cis-1,2-Dichloroethene | MW 3       | 10/18/2005 | 0.0042 U            |
| cis-1,2-Dichloroethene | MW 3       | 1/31/2006  | 3                   |
| cis-1,2-Dichloroethene | MW 3       | 4/18/2006  | 4.1                 |
| cis-1,2-Dichloroethene | MW 3       | 4/18/2006  | 4.1                 |
| cis-1,2-Dichloroethene | MW 3       | 7/19/2006  | 4.5                 |
| cis-1,2-Dichloroethene | MW 3       | 7/19/2006  | 4.2                 |
| cis-1,2-Dichloroethene | MW 3       | 10/16/2006 | 2.5                 |
| cis-1,2-Dichloroethene | MW 3       | 1/24/2007  | 5.4                 |
| cis-1,2-Dichloroethene | MW 3       | 4/17/2007  | 3.4                 |
| cis-1,2-Dichloroethene | MW 3       | 4/17/2007  | 3.1                 |
| cis-1,2-Dichloroethene | MW 3       | 7/11/2007  | 4.4                 |
| cis-1,2-Dichloroethene | MW 3       | 10/16/2007 | 2.1                 |
| cis-1,2-Dichloroethene | MW 3       | 2/18/2008  | 7.7                 |
| cis-1,2-Dichloroethene | MW 3       | 6/30/2008  | 6.6                 |
| cis-1,2-Dichloroethene | MW 3       | 6/30/2008  | 6.5                 |
| cis-1,2-Dichloroethene | MW 3       | 12/4/2008  | 2.8                 |
| cis-1,2-Dichloroethene | MW 3       | 4/30/2009  | 12                  |
| cis-1,2-Dichloroethene | MW 3       | 12/15/2009 | 2.3                 |
| cis-1,2-Dichloroethene | MW 3       | 12/15/2009 | 2.4                 |
| cis-1,2-Dichloroethene | MW 3       | 10/28/2010 | 1.24                |
| cis-1,2-Dichloroethene | MW 3       | 10/28/2010 | 1.08                |
| cis-1,2-Dichloroethene | MW 3       | 4/18/2011  | 8.9                 |
| cis-1,2-Dichloroethene | MW 3       | 10/5/2011  | 5.7                 |
| cis-1,2-Dichloroethene | MW 3       | 5/16/2012  | 8.9                 |

Table D.1

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| Analyte                | Location | Date       | Result (mg/L) |
|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 3     | 10/15/2012 | 1.2           |
| cis-1,2-Dichloroethene | MW 3     | 4/9/2013   | 6.2           |
| cis-1,2-Dichloroethene | MW 3     | 10/24/2013 | 0.93          |
| cis-1,2-Dichloroethene | MW 3     | 10/24/2013 | 1             |
| cis-1,2-Dichloroethene | MW 3     | 4/15/2014  | 4.7           |
| cis-1,2-Dichloroethene | MW 3     | 10/23/2014 | 1             |
| cis-1,2-Dichloroethene | MW 3     | 4/28/2015  | 4.5           |
| cis-1,2-Dichloroethene | MW 3     | 10/14/2015 | 1.4           |
| cis-1,2-Dichloroethene | MW 3     | 4/20/2016  | 7.4           |
| cis-1,2-Dichloroethene | MW 3     | 10/25/2016 | 1.9           |
| cis-1,2-Dichloroethene | MW-4     | 1/11/2005  | 6.1           |
| cis-1,2-Dichloroethene | MW-4     | 10/19/2005 | 13            |
| cis-1,2-Dichloroethene | MW-4     | 2/1/2006   | 8.6           |
| cis-1,2-Dichloroethene | MW-4     | 4/18/2006  | 5.4           |
| cis-1,2-Dichloroethene | MW-4     | 7/18/2006  | 8.1           |
| cis-1,2-Dichloroethene | MW-4     | 10/17/2006 | 23            |
| cis-1,2-Dichloroethene | MW-4     | 1/24/2007  | 7.7           |
| cis-1,2-Dichloroethene | MW-4     | 4/16/2007  | 11 J          |
| cis-1,2-Dichloroethene | MW-4     | 7/10/2007  | 11            |
| cis-1,2-Dichloroethene | MW-4     | 7/10/2007  | 13            |
| cis-1,2-Dichloroethene | MW-4     | 10/17/2007 | 6.7           |
| cis-1,2-Dichloroethene | MW-4     | 10/17/2007 | 7.7           |
| cis-1,2-Dichloroethene | MW-4     | 2/18/2008  | 15            |
| cis-1,2-Dichloroethene | MW-4     | 6/25/2008  | 11            |
| cis-1,2-Dichloroethene | MW-4     | 6/25/2008  | 9.2           |
| cis-1,2-Dichloroethene | MW-4     | 12/3/2008  | 18            |
| cis-1,2-Dichloroethene | MW-4     | 4/30/2009  | 7.8           |
| cis-1,2-Dichloroethene | MW-4     | 4/30/2009  | 7.5           |
| cis-1,2-Dichloroethene | MW-4     | 12/16/2009 | 16            |
| cis-1,2-Dichloroethene | MW-4     | 12/16/2009 | 16            |
| cis-1,2-Dichloroethene | MW-4     | 10/28/2010 | 12.6          |
| cis-1,2-Dichloroethene | MW-4     | 4/20/2011  | 8.8           |
| cis-1,2-Dichloroethene | MW-4     | 4/20/2011  | 8.7           |
| cis-1,2-Dichloroethene | MW-4     | 10/6/2011  | 11            |
| cis-1,2-Dichloroethene | MW-4     | 5/16/2012  | 11            |
| cis-1,2-Dichloroethene | MW-4     | 10/16/2012 | 14            |
| cis-1,2-Dichloroethene | MW-4     | 4/12/2013  | 12            |
| cis-1,2-Dichloroethene | MW-4     | 10/29/2013 | 14            |
| cis-1,2-Dichloroethene | MW-4     | 4/16/2014  | 13 / 13       |
| cis-1,2-Dichloroethene | MW-4     | 10/29/2014 | 12            |
| cis-1,2-Dichloroethene | MW-4     | 4/27/2015  | 10            |
| cis-1,2-Dichloroethene | MW-4     | 10/19/2015 | 12            |
| cis-1,2-Dichloroethene | MW-4     | 4/22/2016  | 9.4           |
| cis-1,2-Dichloroethene | MW-4     | 10/24/2016 | 7.9           |
| cis-1,2-Dichloroethene | MW 8     | 2/2/2005   | 17            |
| cis-1,2-Dichloroethene | MW 8     | 10/17/2005 | 5.8           |
| cis-1,2-Dichloroethene | MW 8     | 10/17/2005 | 5.5           |
| cis-1,2-Dichloroethene | MW 8     | 2/1/2006   | 12 J          |
| cis-1,2-Dichloroethene | MW 8     | 4/17/2006  | 16            |
| cis-1,2-Dichloroethene | MW 8     | 7/18/2006  | 4.6           |
| cis-1,2-Dichloroethene | MW 8     | 10/16/2006 | 5.4           |
| cis-1,2-Dichloroethene | MW 8     | 1/23/2007  | 10            |
| cis-1,2-Dichloroethene | MW 8     | 4/16/2007  | 9.1           |
| cis-1,2-Dichloroethene | MW 8     | 7/10/2007  | 7.5           |
| cis-1,2-Dichloroethene | MW 8     | 10/15/2007 | 9.6           |
| cis-1,2-Dichloroethene | MW 8     | 6/27/2008  | 22            |
| cis-1,2-Dichloroethene | MW 8     | 12/15/2009 | 0.24          |
| cis-1,2-Dichloroethene | MW 8     | 10/27/2010 | 5.44          |
| cis-1,2-Dichloroethene | MW 8     | 4/18/2011  | 8.5           |

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| Analyte                | Location | Date       | Result (mg/L) |
|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 8     | 10/5/2011  | 7.1           |
| cis-1,2-Dichloroethene | MW 8     | 5/15/2012  | 5.1           |
| cis-1,2-Dichloroethene | MW 8     | 5/15/2012  | 5.2           |
| cis-1,2-Dichloroethene | MW 8     | 10/15/2012 | 3.8           |
| cis-1,2-Dichloroethene | MW 8     | 4/9/2013   | 3.5           |
| cis-1,2-Dichloroethene | MW 8     | 10/24/2013 | 4.2           |
| cis-1,2-Dichloroethene | MW 8     | 4/15/2014  | 9.3           |
| cis-1,2-Dichloroethene | MW 8     | 10/23/2014 | 4.4           |
| cis-1,2-Dichloroethene | MW 8     | 4/28/2015  | 3.8           |
| cis-1,2-Dichloroethene | MW 8     | 10/14/2015 | 4.8           |
| cis-1,2-Dichloroethene | MW 8     | 4/20/2016  | 4.9 / 4.9     |
| cis-1,2-Dichloroethene | MW 8     | 10/21/2016 | 4.3           |
| cis-1,2-Dichloroethene | MW 12    | 2/2/2005   | 1             |
| cis-1,2-Dichloroethene | MW 12    | 10/19/2005 | 0.96 / 1      |
| cis-1,2-Dichloroethene | MW 12    | 1/31/2006  | 0.97          |
| cis-1,2-Dichloroethene | MW 12    | 4/18/2006  | 0.51          |
| cis-1,2-Dichloroethene | MW 12    | 7/18/2006  | 0.41 / 0.45   |
| cis-1,2-Dichloroethene | MW 12    | 10/19/2006 | 0.67          |
| cis-1,2-Dichloroethene | MW 12    | 1/22/2007  | 0.51          |
| cis-1,2-Dichloroethene | MW 12    | 4/18/2007  | 0.44          |
| cis-1,2-Dichloroethene | MW 12    | 7/11/2007  | 0.61          |
| cis-1,2-Dichloroethene | MW 12    | 10/19/2007 | 0.59          |
| cis-1,2-Dichloroethene | MW 12    | 6/27/2008  | 0.46          |
| cis-1,2-Dichloroethene | MW 12    | 12/5/2008  | 0.48          |
| cis-1,2-Dichloroethene | MW 12    | 4/29/2009  | 0.49          |
| cis-1,2-Dichloroethene | MW 12    | 12/9/2009  | 0.42          |
| cis-1,2-Dichloroethene | MW 12    | 10/26/2010 | 0.324         |
| cis-1,2-Dichloroethene | MW 12    | 4/20/2011  | 0.29          |
| cis-1,2-Dichloroethene | MW 12    | 10/5/2011  | 0.24          |
| cis-1,2-Dichloroethene | MW 12    | 5/15/2012  | 0.24          |
| cis-1,2-Dichloroethene | MW 12    | 10/11/2012 | 0.2           |
| cis-1,2-Dichloroethene | MW 12    | 4/9/2013   | 0.21          |
| cis-1,2-Dichloroethene | MW 12    | 10/23/2013 | 0.24          |
| cis-1,2-Dichloroethene | MW 12    | 4/11/2014  | 0.21          |
| cis-1,2-Dichloroethene | MW 12    | 10/24/2014 | 0.15 / 0.16   |
| cis-1,2-Dichloroethene | MW 12    | 4/27/2015  | 0.13          |
| cis-1,2-Dichloroethene | MW 12    | 10/9/2015  | 0.08          |
| cis-1,2-Dichloroethene | MW 12    | 4/21/2016  | 0.13          |
| cis-1,2-Dichloroethene | MW 12    | 10/25/2016 | 0.12          |
| cis-1,2-Dichloroethene | MW 14    | 2/2/2005   | 7.4           |
| cis-1,2-Dichloroethene | MW 14    | 10/17/2005 | 7.4           |
| cis-1,2-Dichloroethene | MW 14    | 2/1/2006   | 5.7           |
| cis-1,2-Dichloroethene | MW 14    | 4/18/2006  | 4.7           |
| cis-1,2-Dichloroethene | MW 14    | 7/19/2006  | 4.1           |
| cis-1,2-Dichloroethene | MW 14    | 10/18/2006 | 4.3 J         |
| cis-1,2-Dichloroethene | MW 14    | 1/24/2007  | 4.7           |
| cis-1,2-Dichloroethene | MW 14    | 4/17/2007  | 5.8 J         |
| cis-1,2-Dichloroethene | MW 14    | 7/9/2007   | 6.6           |
| cis-1,2-Dichloroethene | MW 14    | 10/16/2007 | 7.7           |
| cis-1,2-Dichloroethene | MW 14    | 6/30/2008  | 6             |
| cis-1,2-Dichloroethene | MW 14    | 12/5/2008  | 6.1           |
| cis-1,2-Dichloroethene | MW 14    | 4/29/2009  | 6.1           |
| cis-1,2-Dichloroethene | MW 14    | 12/15/2009 | 0.33          |
| cis-1,2-Dichloroethene | MW 14    | 10/27/2010 | 5.22          |
| cis-1,2-Dichloroethene | MW 14    | 4/18/2011  | 4.9           |
| cis-1,2-Dichloroethene | MW 14    | 10/5/2011  | 4.7           |
| cis-1,2-Dichloroethene | MW 14    | 5/15/2012  | 4.4           |
| cis-1,2-Dichloroethene | MW 14    | 10/15/2012 | 4.9           |
| cis-1,2-Dichloroethene | MW 14    | 4/9/2013   | 3.6           |



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| Analyte                | Location | Date       | Result (mg/L) |
|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 14    | 4/9/2013   | 3.9           |
| cis-1,2-Dichloroethene | MW 14    | 10/25/2013 | 6.1           |
| cis-1,2-Dichloroethene | MW 14    | 10/25/2013 | 5             |
| cis-1,2-Dichloroethene | MW 14    | 4/15/2014  | 5.7 / 5.5     |
| cis-1,2-Dichloroethene | MW 14    | 10/24/2014 | 4.9           |
| cis-1,2-Dichloroethene | MW 14    | 4/29/2015  | 4.5/4.8       |
| cis-1,2-Dichloroethene | MW 14    | 10/12/2015 | 4.7           |
| cis-1,2-Dichloroethene | MW 14    | 4/19/2016  | 4.4           |
| cis-1,2-Dichloroethene | MW 14    | 10/25/2016 | 4.4           |
| cis-1,2-Dichloroethene | MW 15    | 2/1/2005   | 29            |
| cis-1,2-Dichloroethene | MW 15    | 10/18/2005 | 11            |
| cis-1,2-Dichloroethene | MW 15    | 2/1/2006   | 20 J          |
| cis-1,2-Dichloroethene | MW 15    | 4/18/2006  | 12            |
| cis-1,2-Dichloroethene | MW 15    | 7/19/2006  | 9             |
| cis-1,2-Dichloroethene | MW 15    | 10/17/2006 | 8.4           |
| cis-1,2-Dichloroethene | MW 15    | 1/24/2007  | 24            |
| cis-1,2-Dichloroethene | MW 15    | 4/17/2007  | 18            |
| cis-1,2-Dichloroethene | MW 15    | 7/10/2007  | 15            |
| cis-1,2-Dichloroethene | MW 15    | 7/10/2007  | 15            |
| cis-1,2-Dichloroethene | MW 15    | 10/16/2007 | 12            |
| cis-1,2-Dichloroethene | MW 15    | 2/14/2008  | 19            |
| cis-1,2-Dichloroethene | MW 15    | 10/24/2013 | 12            |
| cis-1,2-Dichloroethene | MW 15    | 10/23/2014 | 6.3           |
| cis-1,2-Dichloroethene | MW 15    | 10/14/2015 | 4.4           |
| cis-1,2-Dichloroethene | MW 15    | 10/21/2016 | 1.7           |
| cis-1,2-Dichloroethene | MW 16    | 1/17/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 16    | 11/14/2013 | 0.00031 J     |
| cis-1,2-Dichloroethene | MW 16    | 4/10/2014  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 16    | 10/12/2015 | 0.00026 J     |
| cis-1,2-Dichloroethene | MW 16    | 10/23/2016 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 2/1/2005   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 10/17/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 2/1/2006   | 0.00092 J     |
| cis-1,2-Dichloroethene | MW 21    | 4/17/2006  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 7/18/2006  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 10/16/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 1/23/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 4/16/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 7/9/2007   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 10/15/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 10/14/2015 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 21    | 10/21/2016 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 28    | 10/18/2005 | 0.0063 U      |
| cis-1,2-Dichloroethene | MW 28    | 10/19/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 28    | 10/18/2007 | 0.0071 U      |
| cis-1,2-Dichloroethene | MW 28    | 6/24/2008  | 0.0042 U      |
| cis-1,2-Dichloroethene | MW 28    | 12/4/2008  | 0.005 U       |
| cis-1,2-Dichloroethene | MW 28    | 4/29/2009  | 0.005 U       |
| cis-1,2-Dichloroethene | MW 28    | 12/4/2009  | 0.0063 U      |
| cis-1,2-Dichloroethene | MW 28    | 10/26/2010 | 0.005 U       |
| cis-1,2-Dichloroethene | MW 28    | 4/19/2011  | 0.002 U       |
| cis-1,2-Dichloroethene | MW 28    | 10/3/2011  | 0.0033 U      |
| cis-1,2-Dichloroethene | MW 28    | 5/14/2012  | 0.0011 J      |
| cis-1,2-Dichloroethene | MW 28    | 10/10/2012 | 0.018         |
| cis-1,2-Dichloroethene | MW 28    | 4/10/2013  | 0.13          |
| cis-1,2-Dichloroethene | MW 28    | 10/23/2013 | 0.31          |
| cis-1,2-Dichloroethene | MW 28    | 4/15/2014  | 0.57 / 0.56   |
| cis-1,2-Dichloroethene | MW 28    | 10/27/2014 | 0.56          |
| cis-1,2-Dichloroethene | MW 28    | 4/29/2015  | 0.6           |

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|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 28    | 10/12/2015 | 0.86          |
| cis-1,2-Dichloroethene | MW 28    | 4/19/2016  | 0.77          |
| cis-1,2-Dichloroethene | MW 28    | 10/22/2016 | 0.86          |
| cis-1,2-Dichloroethene | MW 31R   | 10/18/2005 | 45            |
| cis-1,2-Dichloroethene | MW 31R   | 1/31/2006  | 16            |
| cis-1,2-Dichloroethene | MW 31R   | 4/19/2006  | 8.7           |
| cis-1,2-Dichloroethene | MW 31R   | 7/19/2006  | 12            |
| cis-1,2-Dichloroethene | MW 31R   | 10/17/2006 | 6.3 J         |
| cis-1,2-Dichloroethene | MW 31R   | 10/17/2006 | 6.8           |
| cis-1,2-Dichloroethene | MW 31R   | 1/23/2007  | 7.3           |
| cis-1,2-Dichloroethene | MW 31R   | 1/23/2007  | 7.8           |
| cis-1,2-Dichloroethene | MW 31R   | 4/17/2007  | 10            |
| cis-1,2-Dichloroethene | MW 31R   | 7/11/2007  | 13            |
| cis-1,2-Dichloroethene | MW 31R   | 10/17/2007 | 12            |
| cis-1,2-Dichloroethene | MW 31R   | 2/14/2008  | 15            |
| cis-1,2-Dichloroethene | MW 31R   | 2/14/2008  | 16            |
| cis-1,2-Dichloroethene | MW 31R   | 12/4/2008  | 14            |
| cis-1,2-Dichloroethene | MW 31R   | 4/29/2009  | 11            |
| cis-1,2-Dichloroethene | MW 31R   | 12/15/2009 | 11            |
| cis-1,2-Dichloroethene | MW 31R   | 10/28/2010 | 6.44          |
| cis-1,2-Dichloroethene | MW 31R   | 4/18/2011  | 6.2           |
| cis-1,2-Dichloroethene | MW 31R   | 10/4/2011  | 5.1           |
| cis-1,2-Dichloroethene | MW 31R   | 5/15/2012  | 8.8           |
| cis-1,2-Dichloroethene | MW 31R   | 10/15/2012 | 6.2           |
| cis-1,2-Dichloroethene | MW 31R   | 4/9/2013   | 8.3           |
| cis-1,2-Dichloroethene | MW 31R   | 10/24/2013 | 7.2           |
| cis-1,2-Dichloroethene | MW 31R   | 4/15/2014  | 12            |
| cis-1,2-Dichloroethene | MW 31R   | 10/27/2014 | 7.3           |
| cis-1,2-Dichloroethene | MW 31R   | 4/28/2015  | 11            |
| cis-1,2-Dichloroethene | MW 31R   | 10/14/2015 | 6.6           |
| cis-1,2-Dichloroethene | MW 31R   | 4/20/2016  | 15            |
| cis-1,2-Dichloroethene | MW 31R   | 10/21/2016 | 18 / 18       |
| cis-1,2-Dichloroethene | MW 37    | 1/18/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 1/18/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/17/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 6/26/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 12/16/2009 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/27/2010 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/5/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/17/2012 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/17/2012 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/25/2013 | 0.0011        |
| cis-1,2-Dichloroethene | MW 37    | 10/22/2014 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/9/2015  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 37    | 10/23/2016 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 40    | 1/12/2005  | 13            |
| cis-1,2-Dichloroethene | MW 40    | 10/18/2005 | 16            |
| cis-1,2-Dichloroethene | MW 40    | 1/30/2006  | 15            |
| cis-1,2-Dichloroethene | MW 40    | 4/17/2006  | 8.5           |
| cis-1,2-Dichloroethene | MW 40    | 7/19/2006  | 9.4           |
| cis-1,2-Dichloroethene | MW 40    | 10/18/2006 | 12            |
| cis-1,2-Dichloroethene | MW 40    | 1/23/2007  | 11            |
| cis-1,2-Dichloroethene | MW 40    | 4/18/2007  | 9.6           |
| cis-1,2-Dichloroethene | MW 40    | 7/10/2007  | 10            |
| cis-1,2-Dichloroethene | MW 40    | 10/18/2007 | 17            |
| cis-1,2-Dichloroethene | MW 40    | 2/15/2008  | 17            |
| cis-1,2-Dichloroethene | MW 40    | 6/26/2008  | 15 J          |
| cis-1,2-Dichloroethene | MW 40    | 12/3/2008  | 13            |
| cis-1,2-Dichloroethene | MW 40    | 12/3/2008  | 13            |

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| Analyte                | Location | Date       | Result (mg/L) |
|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 40    | 4/30/2009  | 13            |
| cis-1,2-Dichloroethene | MW 40    | 12/9/2009  | 13            |
| cis-1,2-Dichloroethene | MW 40    | 10/26/2010 | 7.66          |
| cis-1,2-Dichloroethene | MW 40    | 4/19/2011  | 8.8           |
| cis-1,2-Dichloroethene | MW 40    | 10/4/2011  | 7.6           |
| cis-1,2-Dichloroethene | MW 40    | 5/14/2012  | 7.9           |
| cis-1,2-Dichloroethene | MW 40    | 10/10/2012 | 6.7           |
| cis-1,2-Dichloroethene | MW 40    | 4/9/2013   | 7.9           |
| cis-1,2-Dichloroethene | MW 40    | 10/24/2013 | 8.1           |
| cis-1,2-Dichloroethene | MW 40    | 4/14/2014  | 11            |
| cis-1,2-Dichloroethene | MW 40    | 10/27/2014 | 7.2           |
| cis-1,2-Dichloroethene | MW 40    | 4/28/2015  | 7.5           |
| cis-1,2-Dichloroethene | MW 40    | 10/13/2015 | 6.3           |
| cis-1,2-Dichloroethene | MW 40    | 4/19/2016  | 7             |
| cis-1,2-Dichloroethene | MW 40    | 10/20/2016 | 5             |
| cis-1,2-Dichloroethene | MW 41    | 10/17/2005 | 4.3           |
| cis-1,2-Dichloroethene | MW 41    | 1/30/2006  | 8.5           |
| cis-1,2-Dichloroethene | MW 41    | 4/17/2006  | 5.1           |
| cis-1,2-Dichloroethene | MW 41    | 4/17/2006  | 4.7           |
| cis-1,2-Dichloroethene | MW 41    | 7/18/2006  | 5.4           |
| cis-1,2-Dichloroethene | MW 41    | 10/18/2006 | 6.5 J         |
| cis-1,2-Dichloroethene | MW 41    | 1/23/2007  | 6.5           |
| cis-1,2-Dichloroethene | MW 41    | 4/18/2007  | 5.1           |
| cis-1,2-Dichloroethene | MW 41    | 4/18/2007  | 4.1           |
| cis-1,2-Dichloroethene | MW 41    | 7/10/2007  | 8.3           |
| cis-1,2-Dichloroethene | MW 41    | 10/18/2007 | 10            |
| cis-1,2-Dichloroethene | MW 41    | 2/15/2008  | 9.8           |
| cis-1,2-Dichloroethene | MW 41    | 6/24/2008  | 7             |
| cis-1,2-Dichloroethene | MW 41    | 12/3/2008  | 9.5           |
| cis-1,2-Dichloroethene | MW 41    | 4/28/2009  | 10            |
| cis-1,2-Dichloroethene | MW 41    | 12/3/2009  | 8.4           |
| cis-1,2-Dichloroethene | MW 41    | 10/25/2010 | 6.94          |
| cis-1,2-Dichloroethene | MW 41    | 4/19/2011  | 6.3           |
| cis-1,2-Dichloroethene | MW 41    | 10/4/2011  | 6.3           |
| cis-1,2-Dichloroethene | MW 41    | 5/14/2012  | 6             |
| cis-1,2-Dichloroethene | MW 41    | 10/10/2012 | 6.8           |
| cis-1,2-Dichloroethene | MW 41    | 4/9/2013   | 6.3           |
| cis-1,2-Dichloroethene | MW 41    | 10/25/2013 | 7.2           |
| cis-1,2-Dichloroethene | MW 41    | 4/14/2014  | 7.6           |
| cis-1,2-Dichloroethene | MW 41    | 10/23/2014 | 7.3           |
| cis-1,2-Dichloroethene | MW 41    | 4/29/2015  | 6.4           |
| cis-1,2-Dichloroethene | MW 41    | 10/12/2015 | 6.5 / 6.2     |
| cis-1,2-Dichloroethene | MW 41    | 4/19/2016  | 6.4           |
| cis-1,2-Dichloroethene | MW 41    | 10/23/2016 | 5.2           |
| cis-1,2-Dichloroethene | MW 42    | 10/18/2005 | 12            |
| cis-1,2-Dichloroethene | MW 42    | 1/30/2006  | 10            |
| cis-1,2-Dichloroethene | MW 42    | 1/30/2006  | 9.7           |
| cis-1,2-Dichloroethene | MW 42    | 4/17/2006  | 6.5           |
| cis-1,2-Dichloroethene | MW 42    | 7/18/2006  | 7             |
| cis-1,2-Dichloroethene | MW 42    | 10/18/2006 | 6.4 J         |
| cis-1,2-Dichloroethene | MW 42    | 1/23/2007  | 6.2           |
| cis-1,2-Dichloroethene | MW 42    | 1/23/2007  | 6.2           |
| cis-1,2-Dichloroethene | MW 42    | 4/18/2007  | 3.7           |
| cis-1,2-Dichloroethene | MW 42    | 7/10/2007  | 9.2           |
| cis-1,2-Dichloroethene | MW 42    | 10/18/2007 | 9.8           |
| cis-1,2-Dichloroethene | MW 42    | 2/15/2008  | 10            |
| cis-1,2-Dichloroethene | MW 42    | 6/24/2008  | 7.9           |
| cis-1,2-Dichloroethene | MW 42    | 12/3/2008  | 8.9           |
| cis-1,2-Dichloroethene | MW 42    | 4/28/2009  | 9.3           |

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|------------------------|----------|------------|-----------------|
| cis-1,2-Dichloroethene | MW 42    | 12/3/2009  | 8.1             |
| cis-1,2-Dichloroethene | MW 42    | 10/25/2010 | 6.27            |
| cis-1,2-Dichloroethene | MW 42    | 4/19/2011  | 6               |
| cis-1,2-Dichloroethene | MW 42    | 10/4/2011  | 5               |
| cis-1,2-Dichloroethene | MW 42    | 5/14/2012  | 5.4             |
| cis-1,2-Dichloroethene | MW 42    | 10/10/2012 | 5.3             |
| cis-1,2-Dichloroethene | MW 42    | 4/9/2013   | 5.2             |
| cis-1,2-Dichloroethene | MW 42    | 10/25/2013 | 5.2             |
| cis-1,2-Dichloroethene | MW 42    | 4/14/2014  | 5.6             |
| cis-1,2-Dichloroethene | MW 42    | 10/23/2014 | 4.3             |
| cis-1,2-Dichloroethene | MW 42    | 4/29/2015  | 4.1             |
| cis-1,2-Dichloroethene | MW 42    | 10/12/2015 | 4.4             |
| cis-1,2-Dichloroethene | MW 42    | 4/19/2016  | 4.1             |
| cis-1,2-Dichloroethene | MW 42    | 10/23/2016 | 3.2             |
| cis-1,2-Dichloroethene | MW 46    | 1/12/2005  | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/19/2007 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/19/2007 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 6/27/2008  | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 12/16/2009 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/26/2010 | 0.005 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/5/2011  | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/17/2012 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/25/2013 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/22/2014 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/9/2015  | 0.001 U         |
| cis-1,2-Dichloroethene | MW 46    | 10/23/2016 | 0.001 U         |
| cis-1,2-Dichloroethene | MW 49    | 1/12/2005  | 0.01            |
| cis-1,2-Dichloroethene | MW 49    | 10/19/2007 | 0.045           |
| cis-1,2-Dichloroethene | MW 49    | 2/15/2008  | 0.045           |
| cis-1,2-Dichloroethene | MW 49    | 6/30/2008  | 0.065           |
| cis-1,2-Dichloroethene | MW 49    | 12/5/2008  | 0.093           |
| cis-1,2-Dichloroethene | MW 49    | 4/29/2009  | 0.1             |
| cis-1,2-Dichloroethene | MW 49    | 12/4/2009  | 0.44            |
| cis-1,2-Dichloroethene | MW 49    | 10/27/2010 | 0.352           |
| cis-1,2-Dichloroethene | MW 49    | 4/19/2011  | 0.37            |
| cis-1,2-Dichloroethene | MW 49    | 10/5/2011  | 0.53            |
| cis-1,2-Dichloroethene | MW 49    | 5/15/2012  | 0.66            |
| cis-1,2-Dichloroethene | MW 49    | 10/17/2012 | 0.78            |
| cis-1,2-Dichloroethene | MW 49    | 4/10/2013  | 0.74            |
| cis-1,2-Dichloroethene | MW 49    | 10/25/2013 | 0.9             |
| cis-1,2-Dichloroethene | MW 49    | 4/14/2014  | 0.001 U         |
| cis-1,2-Dichloroethene | MW 49    | 10/27/2014 | 0.78            |
| cis-1,2-Dichloroethene | MW 49    | 4/28/2015  | 0.71            |
| cis-1,2-Dichloroethene | MW 49    | 10/13/2015 | 0.86            |
| cis-1,2-Dichloroethene | MW 49    | 4/21/2016  | 0.83            |
| cis-1,2-Dichloroethene | MW 51    | 12/5/2008  | 0.0086 J        |
| cis-1,2-Dichloroethene | MW 51    | 12/5/2008  | 0.0085 J        |
| cis-1,2-Dichloroethene | MW 51    | 4/29/2009  | 0.0065 J        |
| cis-1,2-Dichloroethene | MW 51    | 12/14/2009 | 0.011           |
| cis-1,2-Dichloroethene | MW 51    | 10/27/2010 | 0.0096 J        |
| cis-1,2-Dichloroethene | MW 51    | 4/20/2011  | 0.0067 U        |
| cis-1,2-Dichloroethene | MW 51    | 10/5/2011  | 0.0078 J        |
| cis-1,2-Dichloroethene | MW 51    | 5/14/2012  | 0.0065          |
| cis-1,2-Dichloroethene | MW 51    | 10/12/2012 | 0.0099          |
| cis-1,2-Dichloroethene | MW 51    | 4/9/2013   | 0.0076 J        |
| cis-1,2-Dichloroethene | MW 51    | 10/23/2013 | 0.0075          |
| cis-1,2-Dichloroethene | MW 51    | 4/16/2014  | 0.0071          |
| cis-1,2-Dichloroethene | MW 51    | 10/21/2014 | 0.0077          |
| cis-1,2-Dichloroethene | MW 51    | 4/28/2015  | 0.0078 / 0.0077 |

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|------------------------|----------|------------|-----------------------|
| cis-1,2-Dichloroethene | MW 51    | 10/9/2015  | 0.0083                |
| cis-1,2-Dichloroethene | MW 51    | 4/20/2016  | 0.011                 |
| cis-1,2-Dichloroethene | MW 51    | 10/23/2016 | 0.012                 |
| cis-1,2-Dichloroethene | MW 56    | 1/11/2005  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/19/2005 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/18/2006 | 0.0024                |
| cis-1,2-Dichloroethene | MW 56    | 10/18/2007 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 6/26/2008  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 12/17/2009 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/28/2010 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/6/2011  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/16/2012 | 0.003                 |
| cis-1,2-Dichloroethene | MW 56    | 10/29/2013 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/29/2014 | 0.00020 J / 0.00021 J |
| cis-1,2-Dichloroethene | MW 56    | 10/19/2015 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 56    | 10/24/2016 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 1/10/2005  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/19/2005 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 2/1/2006   | 0.0014                |
| cis-1,2-Dichloroethene | MW 57    | 4/18/2006  | 0.0007 J              |
| cis-1,2-Dichloroethene | MW 57    | 7/18/2006  | 0.004                 |
| cis-1,2-Dichloroethene | MW 57    | 10/17/2006 | 0.0011                |
| cis-1,2-Dichloroethene | MW 57    | 1/24/2007  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 4/16/2007  | 0.00034 J             |
| cis-1,2-Dichloroethene | MW 57    | 7/10/2007  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/17/2007 | 0.00014 J             |
| cis-1,2-Dichloroethene | MW 57    | 6/25/2008  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 12/16/2009 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/28/2010 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/28/2010 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/6/2011  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/16/2012 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/29/2013 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/29/2014 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/19/2015 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 57    | 10/24/2016 | 0.0042                |
| cis-1,2-Dichloroethene | MW 58    | 1/10/2005  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/19/2005 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/17/2006 | 0.0042 J              |
| cis-1,2-Dichloroethene | MW 58    | 10/17/2007 | 0.0034 U              |
| cis-1,2-Dichloroethene | MW 58    | 2/18/2008  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 58    | 6/25/2008  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 58    | 12/17/2009 | 0.0031 U              |
| cis-1,2-Dichloroethene | MW 58    | 10/28/2010 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/6/2011  | 0.008 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/16/2012 | 0.0057 U              |
| cis-1,2-Dichloroethene | MW 58    | 10/16/2012 | 0.005 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/29/2013 | 0.002 U               |
| cis-1,2-Dichloroethene | MW 58    | 10/29/2014 | 0.0033 U              |
| cis-1,2-Dichloroethene | MW 58    | 10/20/2015 | 0.028 / 0.028         |
| cis-1,2-Dichloroethene | MW 58    | 10/25/2016 | 1.1                   |
| cis-1,2-Dichloroethene | MW 61    | 1/11/2005  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 61    | 6/24/2008  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 61    | 12/3/2009  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 61    | 10/26/2010 | 0.005 U               |
| cis-1,2-Dichloroethene | MW 61    | 10/26/2010 | 0.005 U               |
| cis-1,2-Dichloroethene | MW 61    | 10/3/2011  | 0.001 U               |
| cis-1,2-Dichloroethene | MW 61    | 10/10/2012 | 0.001 U               |
| cis-1,2-Dichloroethene | MW 61    | 10/23/2013 | 0.001 U               |

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|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 61    | 10/21/2014 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 61    | 10/9/2015  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 61    | 10/22/2016 | 0.00035 J     |
| cis-1,2-Dichloroethene | MW 64    | 1/11/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/19/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/18/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/19/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 2/18/2008  | 0.014         |
| cis-1,2-Dichloroethene | MW 64    | 2/18/2008  | 0.024         |
| cis-1,2-Dichloroethene | MW 64    | 6/26/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 12/8/2009  | 0.00014 J     |
| cis-1,2-Dichloroethene | MW 64    | 12/8/2009  | 0.00014 J     |
| cis-1,2-Dichloroethene | MW 64    | 10/25/2010 | 0.005 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/3/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/11/2012 | 0.00063 J     |
| cis-1,2-Dichloroethene | MW 64    | 10/11/2012 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 64    | 10/22/2013 | 0.025         |
| cis-1,2-Dichloroethene | MW 64    | 10/28/2014 | 0.22          |
| cis-1,2-Dichloroethene | MW 64    | 10/13/2015 | 0.25          |
| cis-1,2-Dichloroethene | MW 64    | 10/20/2016 | 0.062         |
| cis-1,2-Dichloroethene | MW 65    | 1/10/2005  | 0.17          |
| cis-1,2-Dichloroethene | MW 65    | 10/18/2007 | 2.7           |
| cis-1,2-Dichloroethene | MW 65    | 2/15/2008  | 3             |
| cis-1,2-Dichloroethene | MW 65    | 6/27/2008  | 0.34          |
| cis-1,2-Dichloroethene | MW 65    | 12/4/2008  | 1.9           |
| cis-1,2-Dichloroethene | MW 65    | 4/28/2009  | 0.97          |
| cis-1,2-Dichloroethene | MW 65    | 12/4/2009  | 1.4           |
| cis-1,2-Dichloroethene | MW 65    | 10/25/2010 | 2.44          |
| cis-1,2-Dichloroethene | MW 65    | 10/3/2011  | 0.97          |
| cis-1,2-Dichloroethene | MW 65    | 10/11/2012 | 0.38          |
| cis-1,2-Dichloroethene | MW 65    | 10/22/2013 | 0.21          |
| cis-1,2-Dichloroethene | MW 65    | 10/22/2014 | 0.053 / 0.064 |
| cis-1,2-Dichloroethene | MW 65    | 10/8/2015  | 0.051         |
| cis-1,2-Dichloroethene | MW 65    | 10/19/2016 | 0.028         |
| cis-1,2-Dichloroethene | MW 66    | 1/11/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 1/11/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 10/18/2005 | 0.0014 U      |
| cis-1,2-Dichloroethene | MW 66    | 10/18/2006 | 0.001 UJ      |
| cis-1,2-Dichloroethene | MW 66    | 10/19/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 10/19/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 2/18/2008  | 0.00012 J     |
| cis-1,2-Dichloroethene | MW 66    | 6/26/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 12/4/2008  | 0.0007 J      |
| cis-1,2-Dichloroethene | MW 66    | 4/28/2009  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 4/28/2009  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 66    | 12/8/2009  | 0.0048        |
| cis-1,2-Dichloroethene | MW 66    | 10/25/2010 | 0.248         |
| cis-1,2-Dichloroethene | MW 66    | 4/19/2011  | 0.23          |
| cis-1,2-Dichloroethene | MW 66    | 4/19/2011  | 0.24          |
| cis-1,2-Dichloroethene | MW 66    | 10/3/2011  | 0.33          |
| cis-1,2-Dichloroethene | MW 66    | 5/14/2012  | 0.24          |
| cis-1,2-Dichloroethene | MW 66    | 10/11/2012 | 0.42          |
| cis-1,2-Dichloroethene | MW 66    | 4/10/2013  | 0.36          |
| cis-1,2-Dichloroethene | MW 66    | 10/22/2013 | 0.9           |
| cis-1,2-Dichloroethene | MW 66    | 4/11/2014  | 0.28          |
| cis-1,2-Dichloroethene | MW 66    | 10/27/2014 | 0.53          |
| cis-1,2-Dichloroethene | MW 66    | 4/27/2015  | 0.45          |
| cis-1,2-Dichloroethene | MW 66    | 10/13/2015 | 1             |
| cis-1,2-Dichloroethene | MW 66    | 4/20/2016  | 1.1           |

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|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 66    | 10/20/2016 | 1.8           |
| cis-1,2-Dichloroethene | MW 68    | 1/18/2005  | 14            |
| cis-1,2-Dichloroethene | MW 68    | 10/19/2005 | 16            |
| cis-1,2-Dichloroethene | MW 68    | 10/19/2005 | 16            |
| cis-1,2-Dichloroethene | MW 68    | 1/31/2006  | 13            |
| cis-1,2-Dichloroethene | MW 68    | 4/18/2006  | 9.9           |
| cis-1,2-Dichloroethene | MW 68    | 7/19/2006  | 7.5           |
| cis-1,2-Dichloroethene | MW 68    | 10/19/2006 | 12            |
| cis-1,2-Dichloroethene | MW 68    | 1/23/2007  | 9.5           |
| cis-1,2-Dichloroethene | MW 68    | 4/18/2007  | 8.9           |
| cis-1,2-Dichloroethene | MW 68    | 7/9/2007   | 13            |
| cis-1,2-Dichloroethene | MW 68    | 10/16/2007 | 14            |
| cis-1,2-Dichloroethene | MW 68    | 2/19/2008  | 14            |
| cis-1,2-Dichloroethene | MW 68    | 6/27/2008  | 13            |
| cis-1,2-Dichloroethene | MW 68    | 12/5/2008  | 10            |
| cis-1,2-Dichloroethene | MW 68    | 4/29/2009  | 11            |
| cis-1,2-Dichloroethene | MW 68    | 12/16/2009 | 8.4           |
| cis-1,2-Dichloroethene | MW 68    | 12/16/2009 | 8.7           |
| cis-1,2-Dichloroethene | MW 68    | 10/26/2010 | 7.52          |
| cis-1,2-Dichloroethene | MW 68    | 4/18/2011  | 7             |
| cis-1,2-Dichloroethene | MW 68    | 10/4/2011  | 6.7           |
| cis-1,2-Dichloroethene | MW 68    | 10/4/2011  | 6.6           |
| cis-1,2-Dichloroethene | MW 68    | 5/14/2012  | 6.7           |
| cis-1,2-Dichloroethene | MW 68    | 10/12/2012 | 6.1           |
| cis-1,2-Dichloroethene | MW 68    | 4/10/2013  | 6.4           |
| cis-1,2-Dichloroethene | MW 68    | 4/10/2013  | 6.1           |
| cis-1,2-Dichloroethene | MW 68    | 10/23/2013 | 7             |
| cis-1,2-Dichloroethene | MW 68    | 11/14/2013 | 6.5 / 6.7     |
| cis-1,2-Dichloroethene | MW 68    | 4/10/2014  | 6.3           |
| cis-1,2-Dichloroethene | MW 68    | 10/23/2014 | 5.5           |
| cis-1,2-Dichloroethene | MW 68    | 4/28/2015  | 5.8 / 5.9     |
| cis-1,2-Dichloroethene | MW 68    | 10/13/2015 | 5.1 / 4.9     |
| cis-1,2-Dichloroethene | MW 68    | 4/19/2016  | 4.5           |
| cis-1,2-Dichloroethene | MW 68    | 10/20/2016 | 3.5           |
| cis-1,2-Dichloroethene | MW 75    | 1/14/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/19/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/19/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/16/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 6/30/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/27/2010 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/5/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/12/2012 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/23/2013 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/21/2014 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 75    | 10/23/2016 | 0.0007 J      |
| cis-1,2-Dichloroethene | MW 76    | 1/14/2005  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/20/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/19/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/16/2007 | 0.00019 J     |
| cis-1,2-Dichloroethene | MW 76    | 10/27/2010 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/5/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/5/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 76    | 10/12/2012 | 0.00099 J     |
| cis-1,2-Dichloroethene | MW 76    | 10/23/2013 | 0.00036 J     |
| cis-1,2-Dichloroethene | MW 76    | 10/23/2013 | 0.00043 J     |
| cis-1,2-Dichloroethene | MW 76    | 10/21/2014 | 0.00043 J     |
| cis-1,2-Dichloroethene | MW 79    | 1/13/2005  | 0.79          |
| cis-1,2-Dichloroethene | MW 79    | 10/15/2007 | 0.99          |
| cis-1,2-Dichloroethene | MW 79    | 12/5/2008  | 1             |

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|------------------------|----------|------------|---------------|
| cis-1,2-Dichloroethene | MW 79    | 4/29/2009  | 1.1           |
| cis-1,2-Dichloroethene | MW 79    | 12/14/2009 | 1.5           |
| cis-1,2-Dichloroethene | MW 79    | 10/27/2010 | 1.22          |
| cis-1,2-Dichloroethene | MW 79    | 4/20/2011  | 1.2           |
| cis-1,2-Dichloroethene | MW 79    | 10/4/2011  | 1.5           |
| cis-1,2-Dichloroethene | MW 79    | 5/15/2012  | 1.4           |
| cis-1,2-Dichloroethene | MW 79    | 10/15/2012 | 2.1           |
| cis-1,2-Dichloroethene | MW 79    | 10/15/2012 | 2.2           |
| cis-1,2-Dichloroethene | MW 79    | 4/9/2013   | 1.9           |
| cis-1,2-Dichloroethene | MW 79    | 10/28/2013 | 2.6           |
| cis-1,2-Dichloroethene | MW 79    | 4/15/2014  | 2.9           |
| cis-1,2-Dichloroethene | MW 79    | 10/28/2014 | 2.4 / 2.5     |
| cis-1,2-Dichloroethene | MW 79    | 4/29/2015  | 2.4           |
| cis-1,2-Dichloroethene | MW 79    | 10/13/2015 | 2             |
| cis-1,2-Dichloroethene | MW 79    | 4/19/2016  | 2.4           |
| cis-1,2-Dichloroethene | MW 79    | 10/21/2016 | 2.1           |
| cis-1,2-Dichloroethene | MW 80    | 3/9/2005   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 3/9/2005   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/18/2005 | 0.0083 U      |
| cis-1,2-Dichloroethene | MW 80    | 10/18/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/17/2007 | 0.00013 J     |
| cis-1,2-Dichloroethene | MW 80    | 6/27/2008  | 0.005 U       |
| cis-1,2-Dichloroethene | MW 80    | 6/27/2008  | 0.005 U       |
| cis-1,2-Dichloroethene | MW 80    | 12/8/2009  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/25/2010 | 0.005 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/3/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/11/2012 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/22/2013 | 0.0017 U      |
| cis-1,2-Dichloroethene | MW 80    | 10/24/2014 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 80    | 10/8/2015  | 0.0012 J      |
| cis-1,2-Dichloroethene | MW 80    | 10/22/2016 | 0.025         |
| cis-1,2-Dichloroethene | MW 81    | 3/9/2005   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 81    | 3/30/2005  | 0.001 UJ      |
| cis-1,2-Dichloroethene | MW 81    | 10/19/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 81    | 10/18/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 81    | 10/18/2006 | 0.001 UJ      |
| cis-1,2-Dichloroethene | MW 81    | 10/18/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 81    | 2/15/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 81    | 6/26/2008  | 0.00024 J     |
| cis-1,2-Dichloroethene | MW 81    | 12/4/2009  | 0.0006 J      |
| cis-1,2-Dichloroethene | MW 81    | 10/25/2010 | 0.005 U       |
| cis-1,2-Dichloroethene | MW 81    | 10/3/2011  | 0.019         |
| cis-1,2-Dichloroethene | MW 81    | 10/11/2012 | 0.039         |
| cis-1,2-Dichloroethene | MW 81    | 10/22/2013 | 0.15          |
| cis-1,2-Dichloroethene | MW 81    | 10/22/2014 | 0.17          |
| cis-1,2-Dichloroethene | MW 81    | 10/8/2015  | 0.19          |
| cis-1,2-Dichloroethene | MW 81    | 10/22/2016 | 0.077         |
| cis-1,2-Dichloroethene | MW 82    | 3/9/2005   | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/20/2005 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/19/2006 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/16/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 6/27/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 12/15/2009 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/27/2010 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/4/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/23/2013 | 0.0022        |
| cis-1,2-Dichloroethene | MW 82    | 10/24/2014 | 0.001 U       |
| cis-1,2-Dichloroethene | MW 82    | 10/12/2015 | 0.00041 J     |
| cis-1,2-Dichloroethene | MW 82    | 10/23/2016 | 0.001 U       |



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| Analyte                | Location | Date       | Result (mg/L)     |
|------------------------|----------|------------|-------------------|
| cis-1,2-Dichloroethene | MW 83    | 3/9/2005   | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/18/2005 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/18/2006 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/18/2007 | 0.00041 J         |
| cis-1,2-Dichloroethene | MW 83    | 6/27/2008  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 12/8/2009  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/26/2010 | 0.005 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/4/2011  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/10/2012 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/24/2013 | 0.00032 J         |
| cis-1,2-Dichloroethene | MW 83    | 10/22/2014 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/9/2015  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 83    | 10/22/2016 | 0.001 U / 0.001 U |
| cis-1,2-Dichloroethene | MW 84    | 10/20/2005 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 84    | 4/10/2013  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 84    | 11/14/2013 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 84    | 4/10/2014  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 84    | 10/12/2015 | 0.00027 J         |
| cis-1,2-Dichloroethene | MW 84    | 10/24/2016 | 0.001             |
| cis-1,2-Dichloroethene | MW 85    | 2/19/2008  | 0.017 U           |
| cis-1,2-Dichloroethene | MW 85    | 6/25/2008  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 85    | 12/4/2008  | 0.031 U           |
| cis-1,2-Dichloroethene | MW 85    | 4/30/2009  | 0.025 U           |
| cis-1,2-Dichloroethene | MW 85    | 12/17/2009 | 0.017 U           |
| cis-1,2-Dichloroethene | MW 85    | 10/28/2010 | 0.693             |
| cis-1,2-Dichloroethene | MW 85    | 4/20/2011  | 0.18              |
| cis-1,2-Dichloroethene | MW 85    | 10/6/2011  | 0.59              |
| cis-1,2-Dichloroethene | MW 85    | 5/16/2012  | 0.66              |
| cis-1,2-Dichloroethene | MW 85    | 10/16/2012 | 4.6               |
| cis-1,2-Dichloroethene | MW 85    | 4/12/2013  | 1.9               |
| cis-1,2-Dichloroethene | MW 85    | 10/29/2013 | 4.6               |
| cis-1,2-Dichloroethene | MW 85    | 4/16/2014  | 7.4               |
| cis-1,2-Dichloroethene | MW 85    | 10/29/2014 | 7.5               |
| cis-1,2-Dichloroethene | MW 85    | 4/27/2015  | 9.5               |
| cis-1,2-Dichloroethene | MW 85    | 10/19/2015 | 10                |
| cis-1,2-Dichloroethene | MW 85    | 4/22/2016  | 9.9 / 10          |
| cis-1,2-Dichloroethene | MW 85    | 10/24/2016 | 8.4               |
| cis-1,2-Dichloroethene | MW 86    | 10/28/2010 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/28/2010 | 0.005 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/4/2011  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/11/2012 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/22/2013 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/22/2014 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/8/2015  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 86    | 10/22/2016 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/29/2010 | 0.005 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/3/2011  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/11/2012 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/22/2013 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/22/2014 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 88    | 10/8/2015  | 0.001 U / 0.001 U |
| cis-1,2-Dichloroethene | MW 88    | 10/22/2016 | 0.001 U / 0.001 U |
| cis-1,2-Dichloroethene | MW 89-11 | 12/8/2011  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 12/8/2011  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 10/17/2012 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 4/12/2013  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 4/12/2013  | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 10/28/2013 | 0.001 U           |
| cis-1,2-Dichloroethene | MW 89-11 | 4/16/2014  | 0.001 U           |

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| Analyte                | Location    | Date       | Result (mg/L)      |
|------------------------|-------------|------------|--------------------|
| cis-1,2-Dichloroethene | MW 89-11    | 10/28/2014 | 0.00055 J          |
| cis-1,2-Dichloroethene | MW 89-11    | 4/28/2015  | 0.0003 J           |
| cis-1,2-Dichloroethene | MW 89-11    | 10/15/2015 | 0.001 U            |
| cis-1,2-Dichloroethene | MW 89-11    | 4/20/2016  | 0.001 U / 0.001 U  |
| cis-1,2-Dichloroethene | MW 89-11    | 10/25/2016 | 0.0003 J / 0.001 U |
| cis-1,2-Dichloroethene | MW97R-16    | 10/25/2016 | 0.0012             |
| cis-1,2-Dichloroethene | Pond Intake | 1/11/2005  | 0.013              |
| cis-1,2-Dichloroethene | Pond Intake | 4/19/2005  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 10/17/2005 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 2/1/2006   | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 4/17/2006  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 7/18/2006  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 10/17/2006 | 0.001 UJ           |
| cis-1,2-Dichloroethene | Pond Intake | 1/22/2007  | 0.066              |
| cis-1,2-Dichloroethene | Pond Intake | 4/16/2007  | 0.0025             |
| cis-1,2-Dichloroethene | Pond Intake | 5/9/2007   | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 6/18/2007  | 0.00019 J          |
| cis-1,2-Dichloroethene | Pond Intake | 7/10/2007  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 8/15/2007  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 9/27/2007  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 10/17/2007 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 11/9/2007  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 12/4/2007  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 2/18/2008  | 0.00061 J          |
| cis-1,2-Dichloroethene | Pond Intake | 6/25/2008  | 0.032              |
| cis-1,2-Dichloroethene | Pond Intake | 9/23/2008  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 12/4/2008  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 3/4/2009   | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 3/4/2009   | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 4/30/2009  | 0.0034             |
| cis-1,2-Dichloroethene | Pond Intake | 7/30/2009  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 7/30/2009  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 12/17/2009 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 8/4/2010   | 0.0058             |
| cis-1,2-Dichloroethene | Pond Intake | 10/28/2010 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 4/20/2011  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 7/28/2011  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 10/6/2011  | 0.004              |
| cis-1,2-Dichloroethene | Pond Intake | 10/6/2011  | 0.004              |
| cis-1,2-Dichloroethene | Pond Intake | 5/16/2012  | 0.0063             |
| cis-1,2-Dichloroethene | Pond Intake | 8/2/2012   | 0.00072 J          |
| cis-1,2-Dichloroethene | Pond Intake | 10/16/2012 | 0.0026             |
| cis-1,2-Dichloroethene | Pond Intake | 4/12/2013  | 0.0066             |
| cis-1,2-Dichloroethene | Pond Intake | 7/17/2013  | 0.017              |
| cis-1,2-Dichloroethene | Pond Intake | 10/29/2013 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond Intake | 4/16/2014  | 0.018              |
| cis-1,2-Dichloroethene | Pond Intake | 7/17/2014  | 0.029 / 0.027      |
| cis-1,2-Dichloroethene | Pond Intake | 10/29/2014 | 0.022              |
| cis-1,2-Dichloroethene | Pond Intake | 4/27/2015  | 0.033              |
| cis-1,2-Dichloroethene | Pond Intake | 7/10/2015  | 0.1/0.11           |
| cis-1,2-Dichloroethene | Pond Intake | 10/20/2015 | 0.037              |
| cis-1,2-Dichloroethene | Pond Intake | 4/22/2016  | 0.077              |
| cis-1,2-Dichloroethene | Pond Intake | 7/19/2016  | 0.055              |
| cis-1,2-Dichloroethene | Pond Intake | 10/24/2016 | 0.036 / 0.034      |
| cis-1,2-Dichloroethene | Pond North  | 1/11/2005  | 0.032              |
| cis-1,2-Dichloroethene | Pond North  | 4/19/2005  | 0.001 U            |
| cis-1,2-Dichloroethene | Pond North  | 10/17/2005 | 0.001 U            |
| cis-1,2-Dichloroethene | Pond North  | 2/1/2006   | 0.001 U            |
| cis-1,2-Dichloroethene | Pond North  | 4/17/2006  | 0.0017 U           |

Table D.1

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| Analyte                | Location   | Date       | Result (mg/L) |
|------------------------|------------|------------|---------------|
| cis-1,2-Dichloroethene | Pond North | 7/18/2006  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 10/17/2006 | 0.001 UJ      |
| cis-1,2-Dichloroethene | Pond North | 1/22/2007  | 0.081         |
| cis-1,2-Dichloroethene | Pond North | 4/16/2007  | 0.21 J        |
| cis-1,2-Dichloroethene | Pond North | 5/9/2007   | 0.00018 J     |
| cis-1,2-Dichloroethene | Pond North | 6/18/2007  | 0.00016 J     |
| cis-1,2-Dichloroethene | Pond North | 7/10/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 8/15/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 9/27/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 10/17/2007 | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 11/9/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 12/4/2007  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 2/18/2008  | 0.00062 J     |
| cis-1,2-Dichloroethene | Pond North | 6/25/2008  | 0.03          |
| cis-1,2-Dichloroethene | Pond North | 9/23/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 9/23/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 12/4/2008  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 3/4/2009   | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 4/30/2009  | 0.0065        |
| cis-1,2-Dichloroethene | Pond North | 7/30/2009  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 12/17/2009 | 0.011 J       |
| cis-1,2-Dichloroethene | Pond North | 8/4/2010   | 0.005 U       |
| cis-1,2-Dichloroethene | Pond North | 8/4/2010   | 0.005 U       |
| cis-1,2-Dichloroethene | Pond North | 10/28/2010 | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 4/20/2011  | 0.026         |
| cis-1,2-Dichloroethene | Pond North | 7/28/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 7/28/2011  | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 10/6/2011  | 0.0089        |
| cis-1,2-Dichloroethene | Pond North | 5/16/2012  | 0.022         |
| cis-1,2-Dichloroethene | Pond North | 5/16/2012  | 0.019         |
| cis-1,2-Dichloroethene | Pond North | 8/2/2012   | 0.0015        |
| cis-1,2-Dichloroethene | Pond North | 8/2/2012   | 0.0014        |
| cis-1,2-Dichloroethene | Pond North | 10/16/2012 | 0.035         |
| cis-1,2-Dichloroethene | Pond North | 4/12/2013  | 0.013         |
| cis-1,2-Dichloroethene | Pond North | 7/17/2013  | 0.032         |
| cis-1,2-Dichloroethene | Pond North | 7/17/2013  | 0.032         |
| cis-1,2-Dichloroethene | Pond North | 10/29/2013 | 0.001 U       |
| cis-1,2-Dichloroethene | Pond North | 4/16/2014  | 0.11          |
| cis-1,2-Dichloroethene | Pond North | 7/17/2014  | 0.25          |
| cis-1,2-Dichloroethene | Pond North | 10/29/2014 | 0.31          |
| cis-1,2-Dichloroethene | Pond North | 4/27/2015  | 0.26          |
| cis-1,2-Dichloroethene | Pond North | 7/10/2015  | 0.093         |
| cis-1,2-Dichloroethene | Pond North | 10/20/2015 | 0.035         |
| cis-1,2-Dichloroethene | Pond North | 4/22/2016  | 0.12          |
| cis-1,2-Dichloroethene | Pond North | 7/19/2016  | 0.09 / 0.081  |
| cis-1,2-Dichloroethene | Pond North | 10/24/2016 | 0.5           |
| Vinyl chloride         | MW-2       | 5/9/2007   | 0.001 U       |
| Vinyl chloride         | MW-2       | 7/10/2007  | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/17/2007 | 0.001 U       |
| Vinyl chloride         | MW-2       | 6/25/2008  | 0.001 U       |
| Vinyl chloride         | MW-2       | 12/17/2009 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/28/2010 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/6/2011  | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/16/2012 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/29/2013 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/29/2013 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/29/2014 | 0.001 U       |
| Vinyl chloride         | MW-2       | 10/19/2015 | 0.001 U       |

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| Analyte        | Location | Date       | Result (mg/L) |
|----------------|----------|------------|---------------|
| Vinyl chloride | MW-2     | 10/24/2016 | 0.001 U       |
| Vinyl chloride | MW 3     | 2/1/2005   | 0.53          |
| Vinyl chloride | MW 3     | 2/1/2005   | 0.56          |
| Vinyl chloride | MW 3     | 10/18/2005 | 0.00027 J     |
| Vinyl chloride | MW 3     | 1/31/2006  | 0.5 U         |
| Vinyl chloride | MW 3     | 4/18/2006  | 0.83 U        |
| Vinyl chloride | MW 3     | 4/18/2006  | 0.83 U        |
| Vinyl chloride | MW 3     | 7/19/2006  | 0.63 U        |
| Vinyl chloride | MW 3     | 7/19/2006  | 0.63 U        |
| Vinyl chloride | MW 3     | 10/16/2006 | 0.069 J       |
| Vinyl chloride | MW 3     | 1/24/2007  | 0.12 J        |
| Vinyl chloride | MW 3     | 4/17/2007  | 0.16          |
| Vinyl chloride | MW 3     | 4/17/2007  | 0.16          |
| Vinyl chloride | MW 3     | 7/11/2007  | 1 U           |
| Vinyl chloride | MW 3     | 10/16/2007 | 0.65          |
| Vinyl chloride | MW 3     | 2/18/2008  | 2             |
| Vinyl chloride | MW 3     | 6/30/2008  | 0.95 J        |
| Vinyl chloride | MW 3     | 6/30/2008  | 1 J           |
| Vinyl chloride | MW 3     | 12/4/2008  | 0.2 J         |
| Vinyl chloride | MW 3     | 4/30/2009  | 0.39 J        |
| Vinyl chloride | MW 3     | 12/15/2009 | 0.34          |
| Vinyl chloride | MW 3     | 12/15/2009 | 0.4           |
| Vinyl chloride | MW 3     | 10/28/2010 | 0.103         |
| Vinyl chloride | MW 3     | 10/28/2010 | 0.0785        |
| Vinyl chloride | MW 3     | 4/18/2011  | 0.35 J        |
| Vinyl chloride | MW 3     | 10/5/2011  | 0.12 J        |
| Vinyl chloride | MW 3     | 5/16/2012  | 0.33 U        |
| Vinyl chloride | MW 3     | 10/15/2012 | 0.29          |
| Vinyl chloride | MW 3     | 4/9/2013   | 0.5 U         |
| Vinyl chloride | MW 3     | 10/24/2013 | 0.077 J       |
| Vinyl chloride | MW 3     | 10/24/2013 | 0.082 J       |
| Vinyl chloride | MW 3     | 4/15/2014  | 0.33 U        |
| Vinyl chloride | MW 3     | 10/23/2014 | 0.055 J       |
| Vinyl chloride | MW 3     | 4/28/2015  | 0.33 U        |
| Vinyl chloride | MW 3     | 10/14/2015 | 0.062 J       |
| Vinyl chloride | MW 3     | 4/20/2016  | 0.5 U         |
| Vinyl chloride | MW 3     | 10/25/2016 | 0.25 U        |
| Vinyl chloride | MW-4     | 1/11/2005  | 0.99          |
| Vinyl chloride | MW-4     | 10/19/2005 | 2.1           |
| Vinyl chloride | MW-4     | 2/1/2006   | 1.7           |
| Vinyl chloride | MW-4     | 4/18/2006  | 0.52          |
| Vinyl chloride | MW-4     | 7/18/2006  | 0.9           |
| Vinyl chloride | MW-4     | 10/17/2006 | 1.3           |
| Vinyl chloride | MW-4     | 1/24/2007  | 0.64          |
| Vinyl chloride | MW-4     | 4/16/2007  | 0.98          |
| Vinyl chloride | MW-4     | 7/10/2007  | 1.1           |
| Vinyl chloride | MW-4     | 7/10/2007  | 1.1           |
| Vinyl chloride | MW-4     | 10/17/2007 | 0.84          |
| Vinyl chloride | MW-4     | 10/17/2007 | 0.98          |
| Vinyl chloride | MW-4     | 2/18/2008  | 1.6           |
| Vinyl chloride | MW-4     | 6/25/2008  | 0.84          |
| Vinyl chloride | MW-4     | 6/25/2008  | 1.2           |
| Vinyl chloride | MW-4     | 12/3/2008  | 1.2           |
| Vinyl chloride | MW-4     | 4/30/2009  | 0.84          |
| Vinyl chloride | MW-4     | 4/30/2009  | 0.83          |
| Vinyl chloride | MW-4     | 12/16/2009 | 1.2           |
| Vinyl chloride | MW-4     | 12/16/2009 | 0.97          |
| Vinyl chloride | MW-4     | 10/28/2010 | 0.655         |
| Vinyl chloride | MW-4     | 4/20/2011  | 0.77          |

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| Analyte        | Location | Date       | Result (mg/L)       |
|----------------|----------|------------|---------------------|
| Vinyl chloride | MW-4     | 4/20/2011  | 0.73                |
| Vinyl chloride | MW-4     | 10/6/2011  | 0.72                |
| Vinyl chloride | MW-4     | 5/16/2012  | 0.71                |
| Vinyl chloride | MW-4     | 10/16/2012 | 0.38 J              |
| Vinyl chloride | MW-4     | 4/12/2013  | 0.44                |
| Vinyl chloride | MW-4     | 10/29/2013 | 0.43                |
| Vinyl chloride | MW-4     | 4/16/2014  | 0.57 / 0.58         |
| Vinyl chloride | MW-4     | 10/29/2014 | 0.41 J              |
| Vinyl chloride | MW-4     | 4/27/2015  | 0.42 J              |
| Vinyl chloride | MW-4     | 10/19/2015 | 0.47                |
| Vinyl chloride | MW-4     | 4/22/2016  | 0.53                |
| Vinyl chloride | MW-4     | 10/24/2016 | 0.63                |
| Vinyl chloride | MW 8     | 2/2/2005   | 6.9                 |
| Vinyl chloride | MW 8     | 10/17/2005 | 1.3                 |
| Vinyl chloride | MW 8     | 10/17/2005 | 1.3                 |
| Vinyl chloride | MW 8     | 2/1/2006   | 2.1                 |
| Vinyl chloride | MW 8     | 4/17/2006  | 1.7                 |
| Vinyl chloride | MW 8     | 7/18/2006  | 1.7                 |
| Vinyl chloride | MW 8     | 10/16/2006 | 1.4                 |
| Vinyl chloride | MW 8     | 1/23/2007  | 1.7                 |
| Vinyl chloride | MW 8     | 4/16/2007  | 2.1                 |
| Vinyl chloride | MW 8     | 7/10/2007  | 2.3                 |
| Vinyl chloride | MW 8     | 10/15/2007 | 2.4                 |
| Vinyl chloride | MW 8     | 6/27/2008  | 5.5                 |
| Vinyl chloride | MW 8     | 12/15/2009 | 0.027               |
| Vinyl chloride | MW 8     | 10/27/2010 | 1.73                |
| Vinyl chloride | MW 8     | 4/18/2011  | 2.4                 |
| Vinyl chloride | MW 8     | 10/5/2011  | 1.7                 |
| Vinyl chloride | MW 8     | 5/15/2012  | 1.6                 |
| Vinyl chloride | MW 8     | 5/15/2012  | 1.5                 |
| Vinyl chloride | MW 8     | 10/15/2012 | 1.4                 |
| Vinyl chloride | MW 8     | 4/9/2013   | 1.5                 |
| Vinyl chloride | MW 8     | 10/24/2013 | 1.4                 |
| Vinyl chloride | MW 8     | 4/15/2014  | 2.8                 |
| Vinyl chloride | MW 8     | 10/23/2014 | 1.7                 |
| Vinyl chloride | MW 8     | 4/28/2015  | 1.9                 |
| Vinyl chloride | MW 8     | 10/14/2015 | 1.5                 |
| Vinyl chloride | MW 8     | 4/20/2016  | 2.1 / 2             |
| Vinyl chloride | MW 8     | 10/21/2016 | 1.3                 |
| Vinyl chloride | MW 12    | 2/2/2005   | 0.01 U              |
| Vinyl chloride | MW 12    | 10/19/2005 | 0.0014 U / 0.0014 U |
| Vinyl chloride | MW 12    | 1/31/2006  | 0.05 U              |
| Vinyl chloride | MW 12    | 4/18/2006  | 0.031 U             |
| Vinyl chloride | MW 12    | 7/18/2006  | 0.025 U / 0.025 U   |
| Vinyl chloride | MW 12    | 10/19/2006 | 0.042 U             |
| Vinyl chloride | MW 12    | 1/22/2007  | 0.025 U             |
| Vinyl chloride | MW 12    | 4/18/2007  | 0.017 U             |
| Vinyl chloride | MW 12    | 7/11/2007  | 0.00072 J           |
| Vinyl chloride | MW 12    | 10/19/2007 | 0.039 U             |
| Vinyl chloride | MW 12    | 6/27/2008  | 0.031 U             |
| Vinyl chloride | MW 12    | 12/5/2008  | 0.025 U             |
| Vinyl chloride | MW 12    | 4/29/2009  | 0.025 U             |
| Vinyl chloride | MW 12    | 12/9/2009  | 0.013 U             |
| Vinyl chloride | MW 12    | 10/26/2010 | 0.002 U             |
| Vinyl chloride | MW 12    | 4/20/2011  | 0.011 U             |
| Vinyl chloride | MW 12    | 10/5/2011  | 0.011 U             |
| Vinyl chloride | MW 12    | 5/15/2012  | 0.0091 U            |
| Vinyl chloride | MW 12    | 10/11/2012 | 0.0067 U            |
| Vinyl chloride | MW 12    | 4/9/2013   | 0.01 U              |

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|----------------|----------|------------|---------------------|
| Vinyl chloride | MW 12    | 10/23/2013 | 0.0077 U            |
| Vinyl chloride | MW 12    | 4/11/2014  | 0.0057 U            |
| Vinyl chloride | MW 12    | 10/24/2014 | 0.0057 U / 0.0050 U |
| Vinyl chloride | MW 12    | 4/27/2015  | 0.0057 U            |
| Vinyl chloride | MW 12    | 10/9/2015  | 0.005 U             |
| Vinyl chloride | MW 12    | 4/21/2016  | 0.005 U             |
| Vinyl chloride | MW 12    | 10/25/2016 | 0.005 U             |
| Vinyl chloride | MW 14    | 2/2/2005   | 0.41                |
| Vinyl chloride | MW 14    | 10/17/2005 | 0.4                 |
| Vinyl chloride | MW 14    | 2/1/2006   | 0.37 J              |
| Vinyl chloride | MW 14    | 4/18/2006  | 0.22 J              |
| Vinyl chloride | MW 14    | 7/19/2006  | 0.26                |
| Vinyl chloride | MW 14    | 10/18/2006 | 0.24 J              |
| Vinyl chloride | MW 14    | 1/24/2007  | 0.31                |
| Vinyl chloride | MW 14    | 4/17/2007  | 0.39                |
| Vinyl chloride | MW 14    | 7/9/2007   | 0.38                |
| Vinyl chloride | MW 14    | 10/16/2007 | 0.51                |
| Vinyl chloride | MW 14    | 6/30/2008  | 0.49 J              |
| Vinyl chloride | MW 14    | 12/5/2008  | 0.29 J              |
| Vinyl chloride | MW 14    | 4/29/2009  | 0.44                |
| Vinyl chloride | MW 14    | 12/15/2009 | 0.0087 J            |
| Vinyl chloride | MW 14    | 10/27/2010 | 0.228               |
| Vinyl chloride | MW 14    | 4/18/2011  | 0.23                |
| Vinyl chloride | MW 14    | 10/5/2011  | 0.19 J              |
| Vinyl chloride | MW 14    | 5/15/2012  | 0.2                 |
| Vinyl chloride | MW 14    | 10/15/2012 | 0.2                 |
| Vinyl chloride | MW 14    | 4/9/2013   | 0.18                |
| Vinyl chloride | MW 14    | 4/9/2013   | 0.19                |
| Vinyl chloride | MW 14    | 10/25/2013 | 0.22 J              |
| Vinyl chloride | MW 14    | 10/25/2013 | 0.25                |
| Vinyl chloride | MW 14    | 4/15/2014  | 0.25 / 0.23         |
| Vinyl chloride | MW 14    | 10/24/2014 | 0.14 J              |
| Vinyl chloride | MW 14    | 4/29/2015  | 0.15 J / 0.15 J     |
| Vinyl chloride | MW 14    | 10/12/2015 | 0.14 J              |
| Vinyl chloride | MW 14    | 4/19/2016  | 0.14 J              |
| Vinyl chloride | MW 14    | 10/25/2016 | 0.12 J              |
| Vinyl chloride | MW 15    | 2/1/2005   | 1.2                 |
| Vinyl chloride | MW 15    | 10/18/2005 | 1.4                 |
| Vinyl chloride | MW 15    | 2/1/2006   | 1.1                 |
| Vinyl chloride | MW 15    | 4/18/2006  | 0.62                |
| Vinyl chloride | MW 15    | 7/19/2006  | 1.2                 |
| Vinyl chloride | MW 15    | 10/17/2006 | 0.83                |
| Vinyl chloride | MW 15    | 1/24/2007  | 1.7                 |
| Vinyl chloride | MW 15    | 4/17/2007  | 1.2                 |
| Vinyl chloride | MW 15    | 7/10/2007  | 1.4                 |
| Vinyl chloride | MW 15    | 7/10/2007  | 1.5                 |
| Vinyl chloride | MW 15    | 10/16/2007 | 1.3                 |
| Vinyl chloride | MW 15    | 2/14/2008  | 1.2 J               |
| Vinyl chloride | MW 15    | 10/24/2013 | 0.56                |
| Vinyl chloride | MW 15    | 10/23/2014 | 0.5 U               |
| Vinyl chloride | MW 15    | 10/14/2015 | 0.094 J             |
| Vinyl chloride | MW 15    | 10/21/2016 | 0.1 U               |
| Vinyl chloride | MW 16    | 1/17/2005  | 0.001 U             |
| Vinyl chloride | MW 16    | 11/14/2013 | 0.001 U             |
| Vinyl chloride | MW 16    | 4/10/2014  | 0.001 U             |
| Vinyl chloride | MW 16    | 10/12/2015 | 0.001 U             |
| Vinyl chloride | MW 16    | 10/23/2016 | 0.001 U             |
| Vinyl chloride | MW 21    | 2/1/2005   | 0.001 U             |
| Vinyl chloride | MW 21    | 10/17/2005 | 0.001 U             |

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|----------------|----------|------------|---------------|
| Vinyl chloride | MW 21    | 2/1/2006   | 0.001 U       |
| Vinyl chloride | MW 21    | 4/17/2006  | 0.001 U       |
| Vinyl chloride | MW 21    | 7/18/2006  | 0.001 U       |
| Vinyl chloride | MW 21    | 10/16/2006 | 0.001 U       |
| Vinyl chloride | MW 21    | 1/23/2007  | 0.001 U       |
| Vinyl chloride | MW 21    | 4/16/2007  | 0.001 U       |
| Vinyl chloride | MW 21    | 7/9/2007   | 0.001 U       |
| Vinyl chloride | MW 21    | 10/15/2007 | 0.001 U       |
| Vinyl chloride | MW 21    | 10/14/2015 | 0.001 U       |
| Vinyl chloride | MW 21    | 10/21/2016 | 0.001 U       |
| Vinyl chloride | MW 28    | 10/18/2005 | 0.1           |
| Vinyl chloride | MW 28    | 10/19/2006 | 0.071         |
| Vinyl chloride | MW 28    | 10/18/2007 | 0.093         |
| Vinyl chloride | MW 28    | 6/24/2008  | 0.077         |
| Vinyl chloride | MW 28    | 12/4/2008  | 0.057         |
| Vinyl chloride | MW 28    | 4/29/2009  | 0.1           |
| Vinyl chloride | MW 28    | 12/4/2009  | 0.17          |
| Vinyl chloride | MW 28    | 10/26/2010 | 0.0822        |
| Vinyl chloride | MW 28    | 4/19/2011  | 0.062         |
| Vinyl chloride | MW 28    | 10/3/2011  | 0.078         |
| Vinyl chloride | MW 28    | 5/14/2012  | 0.089         |
| Vinyl chloride | MW 28    | 10/10/2012 | 0.093         |
| Vinyl chloride | MW 28    | 4/10/2013  | 0.17          |
| Vinyl chloride | MW 28    | 10/23/2013 | 0.14          |
| Vinyl chloride | MW 28    | 4/15/2014  | 0.22 / 0.21   |
| Vinyl chloride | MW 28    | 10/27/2014 | 0.14          |
| Vinyl chloride | MW 28    | 4/29/2015  | 0.13          |
| Vinyl chloride | MW 28    | 10/12/2015 | 0.21          |
| Vinyl chloride | MW 28    | 4/19/2016  | 0.15          |
| Vinyl chloride | MW 28    | 10/22/2016 | 0.19          |
| Vinyl chloride | MW 31R   | 10/18/2005 | 13            |
| Vinyl chloride | MW 31R   | 1/31/2006  | 6             |
| Vinyl chloride | MW 31R   | 4/19/2006  | 2.8           |
| Vinyl chloride | MW 31R   | 7/19/2006  | 9.8           |
| Vinyl chloride | MW 31R   | 10/17/2006 | 7.6           |
| Vinyl chloride | MW 31R   | 10/17/2006 | 7.2           |
| Vinyl chloride | MW 31R   | 1/23/2007  | 5.9           |
| Vinyl chloride | MW 31R   | 1/23/2007  | 6.2           |
| Vinyl chloride | MW 31R   | 4/17/2007  | 2.4           |
| Vinyl chloride | MW 31R   | 7/11/2007  | 6.6           |
| Vinyl chloride | MW 31R   | 10/17/2007 | 6.2           |
| Vinyl chloride | MW 31R   | 2/14/2008  | 5             |
| Vinyl chloride | MW 31R   | 2/14/2008  | 5.3           |
| Vinyl chloride | MW 31R   | 12/4/2008  | 3.2           |
| Vinyl chloride | MW 31R   | 4/29/2009  | 1.5           |
| Vinyl chloride | MW 31R   | 12/15/2009 | 0.7           |
| Vinyl chloride | MW 31R   | 10/28/2010 | 1.57          |
| Vinyl chloride | MW 31R   | 4/18/2011  | 0.64          |
| Vinyl chloride | MW 31R   | 10/4/2011  | 1.2           |
| Vinyl chloride | MW 31R   | 5/15/2012  | 2.3           |
| Vinyl chloride | MW 31R   | 10/15/2012 | 1.3           |
| Vinyl chloride | MW 31R   | 4/9/2013   | 1.3           |
| Vinyl chloride | MW 31R   | 10/24/2013 | 1.6           |
| Vinyl chloride | MW 31R   | 4/15/2014  | 1.1           |
| Vinyl chloride | MW 31R   | 10/27/2014 | 1             |
| Vinyl chloride | MW 31R   | 4/28/2015  | 0.63          |
| Vinyl chloride | MW 31R   | 10/14/2015 | 1.7           |
| Vinyl chloride | MW 31R   | 4/20/2016  | 1.5           |
| Vinyl chloride | MW 31R   | 10/21/2016 | 3.4 / 3.4     |

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|----------------|----------|------------|---------------|
| Vinyl chloride | MW 37    | 1/18/2005  | 0.001 U       |
| Vinyl chloride | MW 37    | 1/18/2005  | 0.001 U       |
| Vinyl chloride | MW 37    | 10/17/2007 | 0.001 U       |
| Vinyl chloride | MW 37    | 6/26/2008  | 0.001 U       |
| Vinyl chloride | MW 37    | 12/16/2009 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/27/2010 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/5/2011  | 0.001 U       |
| Vinyl chloride | MW 37    | 10/17/2012 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/17/2012 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/25/2013 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/22/2014 | 0.001 U       |
| Vinyl chloride | MW 37    | 10/9/2015  | 0.001 U       |
| Vinyl chloride | MW 37    | 10/23/2016 | 0.001 U       |
| Vinyl chloride | MW 40    | 1/12/2005  | 0.49          |
| Vinyl chloride | MW 40    | 10/18/2005 | 1.4           |
| Vinyl chloride | MW 40    | 1/30/2006  | 0.76          |
| Vinyl chloride | MW 40    | 4/17/2006  | 0.43 J        |
| Vinyl chloride | MW 40    | 7/19/2006  | 1             |
| Vinyl chloride | MW 40    | 10/18/2006 | 0.84          |
| Vinyl chloride | MW 40    | 1/23/2007  | 1.1           |
| Vinyl chloride | MW 40    | 4/18/2007  | 0.89          |
| Vinyl chloride | MW 40    | 7/10/2007  | 0.97          |
| Vinyl chloride | MW 40    | 10/18/2007 | 1.3           |
| Vinyl chloride | MW 40    | 2/15/2008  | 2.1           |
| Vinyl chloride | MW 40    | 6/26/2008  | 1.2           |
| Vinyl chloride | MW 40    | 12/3/2008  | 1.5           |
| Vinyl chloride | MW 40    | 12/3/2008  | 1.7           |
| Vinyl chloride | MW 40    | 4/30/2009  | 2.1           |
| Vinyl chloride | MW 40    | 12/9/2009  | 2.1           |
| Vinyl chloride | MW 40    | 10/26/2010 | 1.18          |
| Vinyl chloride | MW 40    | 4/19/2011  | 0.99          |
| Vinyl chloride | MW 40    | 10/4/2011  | 0.99          |
| Vinyl chloride | MW 40    | 5/14/2012  | 0.94          |
| Vinyl chloride | MW 40    | 10/10/2012 | 0.65          |
| Vinyl chloride | MW 40    | 4/9/2013   | 0.99          |
| Vinyl chloride | MW 40    | 10/24/2013 | 1.2           |
| Vinyl chloride | MW 40    | 4/14/2014  | 1.1           |
| Vinyl chloride | MW 40    | 10/27/2014 | 0.5           |
| Vinyl chloride | MW 40    | 4/28/2015  | 0.43          |
| Vinyl chloride | MW 40    | 10/13/2015 | 0.44          |
| Vinyl chloride | MW 40    | 4/19/2016  | 0.36          |
| Vinyl chloride | MW 40    | 10/20/2016 | 0.31          |
| Vinyl chloride | MW 41    | 10/17/2005 | 0.14 J        |
| Vinyl chloride | MW 41    | 1/30/2006  | 0.28 J        |
| Vinyl chloride | MW 41    | 4/17/2006  | 0.14 J        |
| Vinyl chloride | MW 41    | 4/17/2006  | 0.13 J        |
| Vinyl chloride | MW 41    | 7/18/2006  | 0.26 J        |
| Vinyl chloride | MW 41    | 10/18/2006 | 0.19 J        |
| Vinyl chloride | MW 41    | 1/23/2007  | 0.23 J        |
| Vinyl chloride | MW 41    | 4/18/2007  | 0.29          |
| Vinyl chloride | MW 41    | 4/18/2007  | 0.27          |
| Vinyl chloride | MW 41    | 7/10/2007  | 0.33 J        |
| Vinyl chloride | MW 41    | 10/18/2007 | 0.4 J         |
| Vinyl chloride | MW 41    | 2/15/2008  | 0.38 J        |
| Vinyl chloride | MW 41    | 6/24/2008  | 0.22 J        |
| Vinyl chloride | MW 41    | 12/3/2008  | 0.36 J        |
| Vinyl chloride | MW 41    | 4/28/2009  | 0.4 J         |
| Vinyl chloride | MW 41    | 12/3/2009  | 0.39          |
| Vinyl chloride | MW 41    | 10/25/2010 | 0.256         |



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|----------------|----------|------------|---------------|
| Vinyl chloride | MW 41    | 4/19/2011  | 0.3           |
| Vinyl chloride | MW 41    | 10/4/2011  | 0.51          |
| Vinyl chloride | MW 41    | 5/14/2012  | 0.61          |
| Vinyl chloride | MW 41    | 10/10/2012 | 0.66          |
| Vinyl chloride | MW 41    | 4/9/2013   | 0.61          |
| Vinyl chloride | MW 41    | 10/25/2013 | 0.55          |
| Vinyl chloride | MW 41    | 4/14/2014  | 0.73          |
| Vinyl chloride | MW 41    | 10/23/2014 | 0.54 J        |
| Vinyl chloride | MW 41    | 4/29/2015  | 0.46          |
| Vinyl chloride | MW 41    | 10/12/2015 | 0.39 / 0.39   |
| Vinyl chloride | MW 41    | 4/19/2016  | 0.45          |
| Vinyl chloride | MW 41    | 10/23/2016 | 0.35          |
| Vinyl chloride | MW 42    | 10/18/2005 | 0.25 J        |
| Vinyl chloride | MW 42    | 1/30/2006  | 0.15 J        |
| Vinyl chloride | MW 42    | 1/30/2006  | 0.18 J        |
| Vinyl chloride | MW 42    | 4/17/2006  | 0.089 J       |
| Vinyl chloride | MW 42    | 7/18/2006  | 0.13 J        |
| Vinyl chloride | MW 42    | 10/18/2006 | 0.084 J       |
| Vinyl chloride | MW 42    | 1/23/2007  | 0.5 U         |
| Vinyl chloride | MW 42    | 1/23/2007  | 0.5 U         |
| Vinyl chloride | MW 42    | 4/18/2007  | 0.12          |
| Vinyl chloride | MW 42    | 7/10/2007  | 0.13 J        |
| Vinyl chloride | MW 42    | 10/18/2007 | 0.11 J        |
| Vinyl chloride | MW 42    | 2/15/2008  | 0.13 J        |
| Vinyl chloride | MW 42    | 6/24/2008  | 0.13 J        |
| Vinyl chloride | MW 42    | 12/3/2008  | 0.18 J        |
| Vinyl chloride | MW 42    | 4/28/2009  | 0.21 J        |
| Vinyl chloride | MW 42    | 12/3/2009  | 0.2 J         |
| Vinyl chloride | MW 42    | 10/25/2010 | 0.128         |
| Vinyl chloride | MW 42    | 4/19/2011  | 0.17          |
| Vinyl chloride | MW 42    | 10/4/2011  | 0.13 J        |
| Vinyl chloride | MW 42    | 5/14/2012  | 0.11 J        |
| Vinyl chloride | MW 42    | 10/10/2012 | 0.1 J         |
| Vinyl chloride | MW 42    | 4/9/2013   | 0.14 J        |
| Vinyl chloride | MW 42    | 10/25/2013 | 0.12 J        |
| Vinyl chloride | MW 42    | 4/14/2014  | 0.18          |
| Vinyl chloride | MW 42    | 10/23/2014 | 0.12 J        |
| Vinyl chloride | MW 42    | 4/29/2015  | 0.13 J        |
| Vinyl chloride | MW 42    | 10/12/2015 | 0.14 J        |
| Vinyl chloride | MW 42    | 4/19/2016  | 0.092 J       |
| Vinyl chloride | MW 42    | 10/23/2016 | 0.1 J         |
| Vinyl chloride | MW 46    | 1/12/2005  | 0.001 U       |
| Vinyl chloride | MW 46    | 10/19/2007 | 0.001 U       |
| Vinyl chloride | MW 46    | 10/19/2007 | 0.001 U       |
| Vinyl chloride | MW 46    | 6/27/2008  | 0.001 U       |
| Vinyl chloride | MW 46    | 12/16/2009 | 0.001 U       |
| Vinyl chloride | MW 46    | 10/26/2010 | 0.002 U       |
| Vinyl chloride | MW 46    | 10/5/2011  | 0.001 U       |
| Vinyl chloride | MW 46    | 10/17/2012 | 0.001 U       |
| Vinyl chloride | MW 46    | 10/25/2013 | 0.001 U       |
| Vinyl chloride | MW 46    | 10/22/2014 | 0.001 U       |
| Vinyl chloride | MW 46    | 10/9/2015  | 0.001 U       |
| Vinyl chloride | MW 46    | 10/23/2016 | 0.001 U       |
| Vinyl chloride | MW 49    | 1/12/2005  | 0.013         |
| Vinyl chloride | MW 49    | 10/19/2007 | 0.085         |
| Vinyl chloride | MW 49    | 2/15/2008  | 0.057         |
| Vinyl chloride | MW 49    | 6/30/2008  | 0.066         |
| Vinyl chloride | MW 49    | 12/5/2008  | 0.069         |
| Vinyl chloride | MW 49    | 4/29/2009  | 0.045         |

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|----------------|----------|------------|---------------------|
| Vinyl chloride | MW 49    | 12/4/2009  | 0.07                |
| Vinyl chloride | MW 49    | 10/27/2010 | 0.0465              |
| Vinyl chloride | MW 49    | 4/19/2011  | 0.022               |
| Vinyl chloride | MW 49    | 10/5/2011  | 0.025               |
| Vinyl chloride | MW 49    | 5/15/2012  | 0.025               |
| Vinyl chloride | MW 49    | 10/17/2012 | 0.03 J              |
| Vinyl chloride | MW 49    | 4/10/2013  | 0.027 J             |
| Vinyl chloride | MW 49    | 10/25/2013 | 0.033               |
| Vinyl chloride | MW 49    | 4/14/2014  | 0.013               |
| Vinyl chloride | MW 49    | 10/27/2014 | 0.013 J             |
| Vinyl chloride | MW 49    | 4/28/2015  | 0.033 U             |
| Vinyl chloride | MW 49    | 10/13/2015 | 0.012 J             |
| Vinyl chloride | MW 49    | 4/21/2016  | 0.011 J             |
| Vinyl chloride | MW 51    | 12/5/2008  | 0.017 U             |
| Vinyl chloride | MW 51    | 12/5/2008  | 0.017 U             |
| Vinyl chloride | MW 51    | 4/29/2009  | 0.011 U             |
| Vinyl chloride | MW 51    | 12/14/2009 | 0.0083 U            |
| Vinyl chloride | MW 51    | 10/27/2010 | 0.001 U             |
| Vinyl chloride | MW 51    | 4/20/2011  | 0.0067 U            |
| Vinyl chloride | MW 51    | 10/5/2011  | 0.0091 U            |
| Vinyl chloride | MW 51    | 5/14/2012  | 0.0057 U            |
| Vinyl chloride | MW 51    | 10/12/2012 | 0.0067 U            |
| Vinyl chloride | MW 51    | 4/9/2013   | 0.003 J             |
| Vinyl chloride | MW 51    | 10/23/2013 | 0.0029 J            |
| Vinyl chloride | MW 51    | 4/16/2014  | 0.005 U             |
| Vinyl chloride | MW 51    | 10/21/2014 | 0.0041 J            |
| Vinyl chloride | MW 51    | 4/28/2015  | 0.0024 J / 0.0026 J |
| Vinyl chloride | MW 51    | 10/9/2015  | 0.0079              |
| Vinyl chloride | MW 51    | 4/20/2016  | 0.0035 J            |
| Vinyl chloride | MW 51    | 10/23/2016 | 0.0053 J            |
| Vinyl chloride | MW 56    | 1/11/2005  | 0.001 U             |
| Vinyl chloride | MW 56    | 10/19/2005 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/18/2006 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/18/2007 | 0.001 U             |
| Vinyl chloride | MW 56    | 6/26/2008  | 0.001 U             |
| Vinyl chloride | MW 56    | 12/17/2009 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/28/2010 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/6/2011  | 0.001 U             |
| Vinyl chloride | MW 56    | 10/16/2012 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/29/2013 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/29/2014 | 0.001 U / 0.001 U   |
| Vinyl chloride | MW 56    | 10/19/2015 | 0.001 U             |
| Vinyl chloride | MW 56    | 10/24/2016 | 0.001 U             |
| Vinyl chloride | MW 57    | 1/10/2005  | 0.001 U             |
| Vinyl chloride | MW 57    | 10/19/2005 | 0.001 U             |
| Vinyl chloride | MW 57    | 2/1/2006   | 0.001 U             |
| Vinyl chloride | MW 57    | 4/18/2006  | 0.001 U             |
| Vinyl chloride | MW 57    | 7/18/2006  | 0.001 U             |
| Vinyl chloride | MW 57    | 10/17/2006 | 0.00083 J           |
| Vinyl chloride | MW 57    | 1/24/2007  | 0.001 U             |
| Vinyl chloride | MW 57    | 4/16/2007  | 0.001 U             |
| Vinyl chloride | MW 57    | 7/10/2007  | 0.00018 J           |
| Vinyl chloride | MW 57    | 10/17/2007 | 0.001 U             |
| Vinyl chloride | MW 57    | 6/25/2008  | 0.001 U             |
| Vinyl chloride | MW 57    | 12/16/2009 | 0.0016              |
| Vinyl chloride | MW 57    | 10/28/2010 | 0.001 U             |
| Vinyl chloride | MW 57    | 10/28/2010 | 0.001 U             |
| Vinyl chloride | MW 57    | 10/6/2011  | 0.001 U             |
| Vinyl chloride | MW 57    | 10/16/2012 | 0.0042              |

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**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Analyte        | Location | Date       | Result (mg/L)        |
|----------------|----------|------------|----------------------|
| Vinyl chloride | MW 57    | 10/29/2013 | 0.0062               |
| Vinyl chloride | MW 57    | 10/29/2014 | 0.013                |
| Vinyl chloride | MW 57    | 10/19/2015 | 0.0037               |
| Vinyl chloride | MW 57    | 10/24/2016 | 0.046                |
| Vinyl chloride | MW 58    | 1/10/2005  | 0.001 U              |
| Vinyl chloride | MW 58    | 10/19/2005 | 0.001 U              |
| Vinyl chloride | MW 58    | 10/17/2006 | 0.0013               |
| Vinyl chloride | MW 58    | 10/17/2007 | 0.011                |
| Vinyl chloride | MW 58    | 2/18/2008  | 0.016                |
| Vinyl chloride | MW 58    | 6/25/2008  | 0.026                |
| Vinyl chloride | MW 58    | 12/17/2009 | 0.11                 |
| Vinyl chloride | MW 58    | 10/28/2010 | 0.158                |
| Vinyl chloride | MW 58    | 10/6/2011  | 0.12                 |
| Vinyl chloride | MW 58    | 10/16/2012 | 0.14                 |
| Vinyl chloride | MW 58    | 10/16/2012 | 0.15                 |
| Vinyl chloride | MW 58    | 10/29/2013 | 0.11                 |
| Vinyl chloride | MW 58    | 10/29/2014 | 0.098                |
| Vinyl chloride | MW 58    | 10/20/2015 | 0.16 / 0.15          |
| Vinyl chloride | MW 58    | 10/25/2016 | 0.085                |
| Vinyl chloride | MW 61    | 1/11/2005  | 0.001 U              |
| Vinyl chloride | MW 61    | 6/24/2008  | 0.001 U              |
| Vinyl chloride | MW 61    | 12/3/2009  | 0.001 U              |
| Vinyl chloride | MW 61    | 10/26/2010 | 0.002 U              |
| Vinyl chloride | MW 61    | 10/26/2010 | 0.002 U              |
| Vinyl chloride | MW 61    | 10/3/2011  | 0.00029 J            |
| Vinyl chloride | MW 61    | 10/10/2012 | 0.001 U              |
| Vinyl chloride | MW 61    | 10/23/2013 | 0.001 U              |
| Vinyl chloride | MW 61    | 10/21/2014 | 0.00042 J            |
| Vinyl chloride | MW 61    | 10/9/2015  | 0.00068 J            |
| Vinyl chloride | MW 61    | 10/22/2016 | 0.00069 J            |
| Vinyl chloride | MW 64    | 1/11/2005  | 0.001 U              |
| Vinyl chloride | MW 64    | 10/19/2005 | 0.0015               |
| Vinyl chloride | MW 64    | 10/18/2006 | 0.0013               |
| Vinyl chloride | MW 64    | 10/19/2007 | 0.009                |
| Vinyl chloride | MW 64    | 2/18/2008  | 0.0054               |
| Vinyl chloride | MW 64    | 2/18/2008  | 0.005                |
| Vinyl chloride | MW 64    | 6/26/2008  | 0.0011               |
| Vinyl chloride | MW 64    | 12/8/2009  | 0.01                 |
| Vinyl chloride | MW 64    | 12/8/2009  | 0.013                |
| Vinyl chloride | MW 64    | 10/25/2010 | 0.016                |
| Vinyl chloride | MW 64    | 10/3/2011  | 0.032                |
| Vinyl chloride | MW 64    | 10/11/2012 | 0.027                |
| Vinyl chloride | MW 64    | 10/11/2012 | 0.027                |
| Vinyl chloride | MW 64    | 10/22/2013 | 0.045                |
| Vinyl chloride | MW 64    | 10/28/2014 | 0.033                |
| Vinyl chloride | MW 64    | 10/13/2015 | 0.03                 |
| Vinyl chloride | MW 64    | 10/20/2016 | 0.039                |
| Vinyl chloride | MW 65    | 1/10/2005  | 0.54                 |
| Vinyl chloride | MW 65    | 10/18/2007 | 0.68                 |
| Vinyl chloride | MW 65    | 2/15/2008  | 0.77                 |
| Vinyl chloride | MW 65    | 6/27/2008  | 1.2 J                |
| Vinyl chloride | MW 65    | 12/4/2008  | 0.54                 |
| Vinyl chloride | MW 65    | 4/28/2009  | 0.69                 |
| Vinyl chloride | MW 65    | 12/4/2009  | 0.67                 |
| Vinyl chloride | MW 65    | 10/25/2010 | 0.05 U               |
| Vinyl chloride | MW 65    | 10/3/2011  | 0.04 U               |
| Vinyl chloride | MW 65    | 10/11/2012 | 0.014 U              |
| Vinyl chloride | MW 65    | 10/22/2013 | 0.0025 J             |
| Vinyl chloride | MW 65    | 10/22/2014 | 0.00093 J / 0.0016 J |

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| Analyte        | Location | Date       | Result (mg/L)   |
|----------------|----------|------------|-----------------|
| Vinyl chloride | MW 65    | 10/8/2015  | 0.0012 J        |
| Vinyl chloride | MW 65    | 10/19/2016 | 0.0014          |
| Vinyl chloride | MW 66    | 1/11/2005  | 0.003           |
| Vinyl chloride | MW 66    | 1/11/2005  | 0.0031          |
| Vinyl chloride | MW 66    | 10/18/2005 | 0.0067          |
| Vinyl chloride | MW 66    | 10/18/2006 | 0.014           |
| Vinyl chloride | MW 66    | 10/19/2007 | 0.015           |
| Vinyl chloride | MW 66    | 10/19/2007 | 0.015           |
| Vinyl chloride | MW 66    | 2/18/2008  | 0.02            |
| Vinyl chloride | MW 66    | 6/26/2008  | 0.02            |
| Vinyl chloride | MW 66    | 12/4/2008  | 0.0071          |
| Vinyl chloride | MW 66    | 4/28/2009  | 0.027           |
| Vinyl chloride | MW 66    | 4/28/2009  | 0.027           |
| Vinyl chloride | MW 66    | 12/8/2009  | 0.023           |
| Vinyl chloride | MW 66    | 10/25/2010 | 0.027           |
| Vinyl chloride | MW 66    | 4/19/2011  | 0.046           |
| Vinyl chloride | MW 66    | 4/19/2011  | 0.045           |
| Vinyl chloride | MW 66    | 10/3/2011  | 0.14            |
| Vinyl chloride | MW 66    | 5/14/2012  | 0.25            |
| Vinyl chloride | MW 66    | 10/11/2012 | 0.25            |
| Vinyl chloride | MW 66    | 4/10/2013  | 0.3             |
| Vinyl chloride | MW 66    | 10/22/2013 | 0.16            |
| Vinyl chloride | MW 66    | 4/11/2014  | 0.33            |
| Vinyl chloride | MW 66    | 10/27/2014 | 0.15            |
| Vinyl chloride | MW 66    | 4/27/2015  | 0.11            |
| Vinyl chloride | MW 66    | 10/13/2015 | 0.13            |
| Vinyl chloride | MW 66    | 4/20/2016  | 0.14            |
| Vinyl chloride | MW 66    | 10/20/2016 | 0.14            |
| Vinyl chloride | MW 68    | 1/18/2005  | 0.16            |
| Vinyl chloride | MW 68    | 10/19/2005 | 0.35 J          |
| Vinyl chloride | MW 68    | 10/19/2005 | 0.36 J          |
| Vinyl chloride | MW 68    | 1/31/2006  | 0.23 J          |
| Vinyl chloride | MW 68    | 4/18/2006  | 0.19 J          |
| Vinyl chloride | MW 68    | 7/19/2006  | 0.16 J          |
| Vinyl chloride | MW 68    | 10/19/2006 | 0.14 J          |
| Vinyl chloride | MW 68    | 1/23/2007  | 0.14 J          |
| Vinyl chloride | MW 68    | 4/18/2007  | 0.26            |
| Vinyl chloride | MW 68    | 7/9/2007   | 0.33 J          |
| Vinyl chloride | MW 68    | 10/16/2007 | 0.43 J          |
| Vinyl chloride | MW 68    | 2/19/2008  | 0.26            |
| Vinyl chloride | MW 68    | 6/27/2008  | 0.34 J          |
| Vinyl chloride | MW 68    | 12/5/2008  | 0.24 J          |
| Vinyl chloride | MW 68    | 4/29/2009  | 0.33 J          |
| Vinyl chloride | MW 68    | 12/16/2009 | 0.22 J          |
| Vinyl chloride | MW 68    | 12/16/2009 | 0.23 J          |
| Vinyl chloride | MW 68    | 10/26/2010 | 0.181           |
| Vinyl chloride | MW 68    | 4/18/2011  | 0.097 J         |
| Vinyl chloride | MW 68    | 10/4/2011  | 0.16 J          |
| Vinyl chloride | MW 68    | 10/4/2011  | 0.16 J          |
| Vinyl chloride | MW 68    | 5/14/2012  | 0.25            |
| Vinyl chloride | MW 68    | 10/12/2012 | 0.24            |
| Vinyl chloride | MW 68    | 4/10/2013  | 0.21 J          |
| Vinyl chloride | MW 68    | 4/10/2013  | 0.19 J          |
| Vinyl chloride | MW 68    | 10/23/2013 | 0.24 J          |
| Vinyl chloride | MW 68    | 11/14/2013 | 0.3 / 0.3       |
| Vinyl chloride | MW 68    | 4/10/2014  | 0.24            |
| Vinyl chloride | MW 68    | 10/23/2014 | 0.15 J          |
| Vinyl chloride | MW 68    | 4/28/2015  | 0.18 J / 0.17 J |
| Vinyl chloride | MW 68    | 10/13/2015 | 0.16 J / 0.12 J |

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|----------------|----------|------------|---------------|
| Vinyl chloride | MW 68    | 4/19/2016  | 0.15 J        |
| Vinyl chloride | MW 68    | 10/20/2016 | 0.15 J        |
| Vinyl chloride | MW 75    | 1/14/2005  | 0.001 U       |
| Vinyl chloride | MW 75    | 10/19/2005 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/19/2006 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/16/2007 | 0.001 U       |
| Vinyl chloride | MW 75    | 6/30/2008  | 0.001 U       |
| Vinyl chloride | MW 75    | 10/27/2010 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/5/2011  | 0.001 U       |
| Vinyl chloride | MW 75    | 10/12/2012 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/23/2013 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/21/2014 | 0.001 U       |
| Vinyl chloride | MW 75    | 10/23/2016 | 0.001 U       |
| Vinyl chloride | MW 76    | 1/14/2005  | 0.001 U       |
| Vinyl chloride | MW 76    | 10/20/2005 | 0.001 U       |
| Vinyl chloride | MW 76    | 10/19/2006 | 0.001 U       |
| Vinyl chloride | MW 76    | 10/16/2007 | 0.001 U       |
| Vinyl chloride | MW 76    | 10/27/2010 | 0.001 U       |
| Vinyl chloride | MW 76    | 10/5/2011  | 0.001 U       |
| Vinyl chloride | MW 76    | 10/5/2011  | 0.001 U       |
| Vinyl chloride | MW 76    | 10/12/2012 | 0.001 U       |
| Vinyl chloride | MW 76    | 10/23/2013 | 0.00046 J     |
| Vinyl chloride | MW 76    | 10/23/2013 | 0.00048 J     |
| Vinyl chloride | MW 76    | 10/21/2014 | 0.00051 J     |
| Vinyl chloride | MW 79    | 1/13/2005  | 0.24          |
| Vinyl chloride | MW 79    | 10/15/2007 | 0.33          |
| Vinyl chloride | MW 79    | 12/5/2008  | 0.2           |
| Vinyl chloride | MW 79    | 4/29/2009  | 0.22          |
| Vinyl chloride | MW 79    | 12/14/2009 | 0.27          |
| Vinyl chloride | MW 79    | 10/27/2010 | 0.185         |
| Vinyl chloride | MW 79    | 4/20/2011  | 0.13          |
| Vinyl chloride | MW 79    | 10/4/2011  | 0.14          |
| Vinyl chloride | MW 79    | 5/15/2012  | 0.12          |
| Vinyl chloride | MW 79    | 10/15/2012 | 0.15          |
| Vinyl chloride | MW 79    | 10/15/2012 | 0.14          |
| Vinyl chloride | MW 79    | 4/9/2013   | 0.15          |
| Vinyl chloride | MW 79    | 10/28/2013 | 0.16          |
| Vinyl chloride | MW 79    | 4/15/2014  | 0.22          |
| Vinyl chloride | MW 79    | 10/28/2014 | 0.15 / 0.15   |
| Vinyl chloride | MW 79    | 4/29/2015  | 0.15          |
| Vinyl chloride | MW 79    | 10/13/2015 | 0.13          |
| Vinyl chloride | MW 79    | 4/19/2016  | 0.18          |
| Vinyl chloride | MW 79    | 10/21/2016 | 0.15          |
| Vinyl chloride | MW 80    | 3/9/2005   | 0.11          |
| Vinyl chloride | MW 80    | 3/9/2005   | 0.12          |
| Vinyl chloride | MW 80    | 10/18/2005 | 0.15          |
| Vinyl chloride | MW 80    | 10/18/2006 | 0.033         |
| Vinyl chloride | MW 80    | 10/17/2007 | 0.042         |
| Vinyl chloride | MW 80    | 6/27/2008  | 0.068 J       |
| Vinyl chloride | MW 80    | 6/27/2008  | 0.093 J       |
| Vinyl chloride | MW 80    | 12/8/2009  | 0.069         |
| Vinyl chloride | MW 80    | 10/25/2010 | 0.0134        |
| Vinyl chloride | MW 80    | 10/3/2011  | 0.015         |
| Vinyl chloride | MW 80    | 10/11/2012 | 0.025         |
| Vinyl chloride | MW 80    | 10/22/2013 | 0.045         |
| Vinyl chloride | MW 80    | 10/24/2014 | 0.036         |
| Vinyl chloride | MW 80    | 10/8/2015  | 0.04          |
| Vinyl chloride | MW 80    | 10/22/2016 | 0.049         |
| Vinyl chloride | MW 81    | 3/9/2005   | 0.0034        |

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| Analyte        | Location | Date       | Result (mg/L)   |
|----------------|----------|------------|-----------------|
| Vinyl chloride | MW 81    | 3/30/2005  | 0.004 J         |
| Vinyl chloride | MW 81    | 10/19/2005 | 0.0058          |
| Vinyl chloride | MW 81    | 10/18/2006 | 0.0062          |
| Vinyl chloride | MW 81    | 10/18/2006 | 0.0062          |
| Vinyl chloride | MW 81    | 10/18/2007 | 0.0092          |
| Vinyl chloride | MW 81    | 2/15/2008  | 0.013           |
| Vinyl chloride | MW 81    | 6/26/2008  | 0.016           |
| Vinyl chloride | MW 81    | 12/4/2009  | 0.026           |
| Vinyl chloride | MW 81    | 10/25/2010 | 0.0268          |
| Vinyl chloride | MW 81    | 10/3/2011  | 0.05            |
| Vinyl chloride | MW 81    | 10/11/2012 | 0.051           |
| Vinyl chloride | MW 81    | 10/22/2013 | 0.066           |
| Vinyl chloride | MW 81    | 10/22/2014 | 0.041           |
| Vinyl chloride | MW 81    | 10/8/2015  | 0.062           |
| Vinyl chloride | MW 81    | 10/22/2016 | 0.026           |
| Vinyl chloride | MW 82    | 3/9/2005   | 0.001 U         |
| Vinyl chloride | MW 82    | 10/20/2005 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/19/2006 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/16/2007 | 0.001 U         |
| Vinyl chloride | MW 82    | 6/27/2008  | 0.001 U         |
| Vinyl chloride | MW 82    | 12/15/2009 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/27/2010 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/4/2011  | 0.001 U         |
| Vinyl chloride | MW 82    | 10/23/2013 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/24/2014 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/12/2015 | 0.001 U         |
| Vinyl chloride | MW 82    | 10/23/2016 | 0.001 U         |
| Vinyl chloride | MW 83    | 3/9/2005   | 0.001 U         |
| Vinyl chloride | MW 83    | 10/18/2005 | 0.001 U         |
| Vinyl chloride | MW 83    | 10/18/2006 | 0.001 U         |
| Vinyl chloride | MW 83    | 10/18/2007 | 0.001 U         |
| Vinyl chloride | MW 83    | 6/27/2008  | 0.001 U         |
| Vinyl chloride | MW 83    | 12/8/2009  | 0.001 U         |
| Vinyl chloride | MW 83    | 10/26/2010 | 0.002 U         |
| Vinyl chloride | MW 83    | 10/4/2011  | 0.0003 J        |
| Vinyl chloride | MW 83    | 10/10/2012 | 0.00045 J       |
| Vinyl chloride | MW 83    | 10/24/2013 | 0.0015          |
| Vinyl chloride | MW 83    | 10/22/2014 | 0.0015          |
| Vinyl chloride | MW 83    | 10/9/2015  | 0.0037          |
| Vinyl chloride | MW 83    | 10/22/2016 | 0.0053 / 0.0053 |
| Vinyl chloride | MW 84    | 10/20/2005 | 0.001 U         |
| Vinyl chloride | MW 84    | 4/10/2013  | 0.001 U         |
| Vinyl chloride | MW 84    | 11/14/2013 | 0.001 U         |
| Vinyl chloride | MW 84    | 4/10/2014  | 0.001 U         |
| Vinyl chloride | MW 84    | 10/12/2015 | 0.001 U         |
| Vinyl chloride | MW 84    | 10/24/2016 | 0.001 U         |
| Vinyl chloride | MW 85    | 2/19/2008  | 0.36            |
| Vinyl chloride | MW 85    | 6/25/2008  | 0.25            |
| Vinyl chloride | MW 85    | 12/4/2008  | 0.5             |
| Vinyl chloride | MW 85    | 4/30/2009  | 0.48            |
| Vinyl chloride | MW 85    | 12/17/2009 | 0.76            |
| Vinyl chloride | MW 85    | 10/28/2010 | 0.808           |
| Vinyl chloride | MW 85    | 4/20/2011  | 0.45            |
| Vinyl chloride | MW 85    | 10/6/2011  | 0.51            |
| Vinyl chloride | MW 85    | 5/16/2012  | 0.59            |
| Vinyl chloride | MW 85    | 10/16/2012 | 0.77            |
| Vinyl chloride | MW 85    | 4/12/2013  | 0.69            |
| Vinyl chloride | MW 85    | 10/29/2013 | 0.64            |
| Vinyl chloride | MW 85    | 4/16/2014  | 0.84            |

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| Analyte        | Location    | Date       | Result (mg/L)     |
|----------------|-------------|------------|-------------------|
| Vinyl chloride | MW 85       | 10/29/2014 | 0.6               |
| Vinyl chloride | MW 85       | 4/27/2015  | 0.37 J            |
| Vinyl chloride | MW 85       | 10/19/2015 | 0.44              |
| Vinyl chloride | MW 85       | 4/22/2016  | 0.34 J / 0.35 J   |
| Vinyl chloride | MW 85       | 10/24/2016 | 0.42 J            |
| Vinyl chloride | MW 86       | 10/28/2010 | 0.001 U           |
| Vinyl chloride | MW 86       | 10/28/2010 | 0.002 U           |
| Vinyl chloride | MW 86       | 10/4/2011  | 0.001 U           |
| Vinyl chloride | MW 86       | 10/11/2012 | 0.001 U           |
| Vinyl chloride | MW 86       | 10/22/2013 | 0.001 U           |
| Vinyl chloride | MW 86       | 10/22/2014 | 0.001 U           |
| Vinyl chloride | MW 86       | 10/8/2015  | 0.001 U           |
| Vinyl chloride | MW 86       | 10/22/2016 | 0.001 U           |
| Vinyl chloride | MW 88       | 10/29/2010 | 0.002 U           |
| Vinyl chloride | MW 88       | 10/3/2011  | 0.001 U           |
| Vinyl chloride | MW 88       | 10/11/2012 | 0.001 U           |
| Vinyl chloride | MW 88       | 10/22/2013 | 0.001 U           |
| Vinyl chloride | MW 88       | 10/22/2014 | 0.00034 J         |
| Vinyl chloride | MW 88       | 10/8/2015  | 0.001 / 0.00098 J |
| Vinyl chloride | MW 88       | 10/22/2016 | 0.0019 / 0.0018   |
| Vinyl chloride | MW 89-11    | 12/8/2011  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 12/8/2011  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 10/17/2012 | 0.001 U           |
| Vinyl chloride | MW 89-11    | 4/12/2013  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 4/12/2013  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 10/28/2013 | 0.001 U           |
| Vinyl chloride | MW 89-11    | 4/16/2014  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 10/28/2014 | 0.001 U           |
| Vinyl chloride | MW 89-11    | 4/28/2015  | 0.001 U           |
| Vinyl chloride | MW 89-11    | 10/15/2015 | 0.001 U           |
| Vinyl chloride | MW 89-11    | 4/20/2016  | 0.001 U / 0.001 U |
| Vinyl chloride | MW 89-11    | 10/25/2016 | 0.001 U / 0.001 U |
| Vinyl chloride | MW97R-16    | 10/25/2016 | 0.001 U           |
| Vinyl chloride | Pond Intake | 1/11/2005  | 0.0056            |
| Vinyl chloride | Pond Intake | 4/19/2005  | 0.001 U           |
| Vinyl chloride | Pond Intake | 10/17/2005 | 0.001 U           |
| Vinyl chloride | Pond Intake | 2/1/2006   | 0.001 U           |
| Vinyl chloride | Pond Intake | 4/17/2006  | 0.001 U           |
| Vinyl chloride | Pond Intake | 7/18/2006  | 0.001 U           |
| Vinyl chloride | Pond Intake | 10/17/2006 | 0.001 U           |
| Vinyl chloride | Pond Intake | 1/22/2007  | 0.006             |
| Vinyl chloride | Pond Intake | 4/16/2007  | 0.00038 J         |
| Vinyl chloride | Pond Intake | 5/9/2007   | 0.00047 J         |
| Vinyl chloride | Pond Intake | 6/18/2007  | 0.00052 J         |
| Vinyl chloride | Pond Intake | 7/10/2007  | 0.001 U           |
| Vinyl chloride | Pond Intake | 8/15/2007  | 0.0004 J          |
| Vinyl chloride | Pond Intake | 9/27/2007  | 0.00029 J         |
| Vinyl chloride | Pond Intake | 10/17/2007 | 0.001 U           |
| Vinyl chloride | Pond Intake | 11/9/2007  | 0.001 U           |
| Vinyl chloride | Pond Intake | 12/4/2007  | 0.001 U           |
| Vinyl chloride | Pond Intake | 2/18/2008  | 0.0022            |
| Vinyl chloride | Pond Intake | 6/25/2008  | 0.0031            |
| Vinyl chloride | Pond Intake | 9/23/2008  | 0.001 U           |
| Vinyl chloride | Pond Intake | 12/4/2008  | 0.001 U           |
| Vinyl chloride | Pond Intake | 3/4/2009   | 0.0012            |
| Vinyl chloride | Pond Intake | 3/4/2009   | 0.0013            |
| Vinyl chloride | Pond Intake | 4/30/2009  | 0.0031            |
| Vinyl chloride | Pond Intake | 7/30/2009  | 0.0017            |
| Vinyl chloride | Pond Intake | 7/30/2009  | 0.0017            |

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| Analyte        | Location    | Date       | Result (mg/L)   |
|----------------|-------------|------------|-----------------|
| Vinyl chloride | Pond Intake | 12/17/2009 | 0.0015          |
| Vinyl chloride | Pond Intake | 8/4/2010   | 0.0049          |
| Vinyl chloride | Pond Intake | 10/28/2010 | 0.001 U         |
| Vinyl chloride | Pond Intake | 4/20/2011  | 0.0019          |
| Vinyl chloride | Pond Intake | 7/28/2011  | 0.0042          |
| Vinyl chloride | Pond Intake | 10/6/2011  | 0.0021          |
| Vinyl chloride | Pond Intake | 10/6/2011  | 0.0022          |
| Vinyl chloride | Pond Intake | 5/16/2012  | 0.0038          |
| Vinyl chloride | Pond Intake | 8/2/2012   | 0.0048          |
| Vinyl chloride | Pond Intake | 10/16/2012 | 0.00067 J       |
| Vinyl chloride | Pond Intake | 4/12/2013  | 0.0046          |
| Vinyl chloride | Pond Intake | 7/17/2013  | 0.0048          |
| Vinyl chloride | Pond Intake | 10/29/2013 | 0.0022          |
| Vinyl chloride | Pond Intake | 4/16/2014  | 0.0069          |
| Vinyl chloride | Pond Intake | 7/17/2014  | 0.0049 / 0.0048 |
| Vinyl chloride | Pond Intake | 10/29/2014 | 0.0039          |
| Vinyl chloride | Pond Intake | 4/27/2015  | 0.0053          |
| Vinyl chloride | Pond Intake | 7/10/2015  | 0.008 / 0.0079  |
| Vinyl chloride | Pond Intake | 10/20/2015 | 0.0065          |
| Vinyl chloride | Pond Intake | 4/22/2016  | 0.0044          |
| Vinyl chloride | Pond Intake | 7/19/2016  | 0.0049          |
| Vinyl chloride | Pond Intake | 10/24/2016 | 0.0031 / 0.0029 |
| Vinyl chloride | Pond North  | 1/11/2005  | 0.013           |
| Vinyl chloride | Pond North  | 4/19/2005  | 0.001 U         |
| Vinyl chloride | Pond North  | 10/17/2005 | 0.001 U         |
| Vinyl chloride | Pond North  | 2/1/2006   | 0.001 U         |
| Vinyl chloride | Pond North  | 4/17/2006  | 0.001 U         |
| Vinyl chloride | Pond North  | 7/18/2006  | 0.001 U         |
| Vinyl chloride | Pond North  | 10/17/2006 | 0.001 U         |
| Vinyl chloride | Pond North  | 1/22/2007  | 0.0067 J        |
| Vinyl chloride | Pond North  | 4/16/2007  | 0.024           |
| Vinyl chloride | Pond North  | 5/9/2007   | 0.001 U         |
| Vinyl chloride | Pond North  | 6/18/2007  | 0.00083 J       |
| Vinyl chloride | Pond North  | 7/10/2007  | 0.00035 J       |
| Vinyl chloride | Pond North  | 8/15/2007  | 0.0005 J        |
| Vinyl chloride | Pond North  | 9/27/2007  | 0.00084 J       |
| Vinyl chloride | Pond North  | 10/17/2007 | 0.00072 J       |
| Vinyl chloride | Pond North  | 11/9/2007  | 0.001 U         |
| Vinyl chloride | Pond North  | 12/4/2007  | 0.001 U         |
| Vinyl chloride | Pond North  | 2/18/2008  | 0.0022          |
| Vinyl chloride | Pond North  | 6/25/2008  | 0.0035          |
| Vinyl chloride | Pond North  | 9/23/2008  | 0.0012          |
| Vinyl chloride | Pond North  | 9/23/2008  | 0.0013          |
| Vinyl chloride | Pond North  | 12/4/2008  | 0.001 U         |
| Vinyl chloride | Pond North  | 3/4/2009   | 0.0012          |
| Vinyl chloride | Pond North  | 4/30/2009  | 0.0039          |
| Vinyl chloride | Pond North  | 7/30/2009  | 0.0018          |
| Vinyl chloride | Pond North  | 12/17/2009 | 0.5             |
| Vinyl chloride | Pond North  | 8/4/2010   | 0.004           |
| Vinyl chloride | Pond North  | 8/4/2010   | 0.0051          |
| Vinyl chloride | Pond North  | 10/28/2010 | 0.001 U         |
| Vinyl chloride | Pond North  | 4/20/2011  | 0.0043          |
| Vinyl chloride | Pond North  | 7/28/2011  | 0.0088          |
| Vinyl chloride | Pond North  | 7/28/2011  | 0.0067          |
| Vinyl chloride | Pond North  | 10/6/2011  | 0.012           |
| Vinyl chloride | Pond North  | 5/16/2012  | 0.014           |
| Vinyl chloride | Pond North  | 5/16/2012  | 0.014           |
| Vinyl chloride | Pond North  | 8/2/2012   | 0.012           |
| Vinyl chloride | Pond North  | 8/2/2012   | 0.011           |



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| Analyte        | Location   | Date       | Result (mg/L)   |
|----------------|------------|------------|-----------------|
| Vinyl chloride | Pond North | 10/16/2012 | 0.012           |
| Vinyl chloride | Pond North | 4/12/2013  | 0.0081          |
| Vinyl chloride | Pond North | 7/17/2013  | 0.014           |
| Vinyl chloride | Pond North | 7/17/2013  | 0.014           |
| Vinyl chloride | Pond North | 10/29/2013 | 0.0033          |
| Vinyl chloride | Pond North | 4/16/2014  | 0.089           |
| Vinyl chloride | Pond North | 7/17/2014  | 0.041           |
| Vinyl chloride | Pond North | 10/29/2014 | 0.019           |
| Vinyl chloride | Pond North | 4/27/2015  | 0.0091          |
| Vinyl chloride | Pond North | 7/10/2015  | 0.0077          |
| Vinyl chloride | Pond North | 10/20/2015 | 0.0047          |
| Vinyl chloride | Pond North | 4/22/2016  | 0.0078          |
| Vinyl chloride | Pond North | 7/19/2016  | 0.0064 / 0.0062 |
| Vinyl chloride | Pond North | 10/24/2016 | 0.033 U         |

**Note:** Boxed values are outliers.

Table D.2

**Descriptive Statistics and Trend Test Results**  
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| Location              | Analyte | Units | Date Range   | Number of Samples | Number of Detects | Percent Detects | Minimum   | Maximum   | Number of Outliers | Mann-Kendall Trend test |             |                     |                   | Sen's Slope (units/day) |
|-----------------------|---------|-------|--------------|-------------------|-------------------|-----------------|-----------|-----------|--------------------|-------------------------|-------------|---------------------|-------------------|-------------------------|
|                       |         |       |              |                   |                   |                 |           |           |                    | Statistic               | Probability | Confidence in trend | Conclusion        |                         |
| MW-2                  | TCE     | mg/L  | 2007 -- 2016 | 12                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 3                  | TCE     | mg/L  | 2005 -- 2016 | 28                | 28                | 100%            | 0.013     | 18        | 0                  | -61                     | 0.882       | 12%                 | NT or Decreasing  | -8.7E-04                |
| MW-4                  | TCE     | mg/L  | 2005 -- 2016 | 28                | 15                | 54%             | 0.001 U   | 1.7       | --                 | --                      | --          | --                  | --                | --                      |
| MW 8                  | TCE     | mg/L  | 2005 -- 2016 | 25                | 25                | 100%            | 0.046     | 1.4       | 0                  | -41                     | 0.825       | 17%                 | NT or Decreasing  | -3.1E-05                |
| MW 12                 | TCE     | mg/L  | 2005 -- 2016 | 27                | 22                | 81%             | 0.0013 J  | 0.16      | 0                  | -291                    | 1.000       | 0%                  | NT or Decreasing  | -1.9E-05                |
| MW 14                 | TCE     | mg/L  | 2005 -- 2016 | 27                | 2                 | 7%              | 0.001 U   | 0.5 U     | --                 | --                      | --          | --                  | --                | --                      |
| MW 15 <sup>(1)</sup>  | TCE     | mg/L  | 2005 -- 2016 | 8                 | 8                 | 100%            | 2.5       | 10        | 0                  | -12                     | 0.712       | 29%                 | NT or Decreasing  | -0.348                  |
| MW 16                 | TCE     | mg/L  | 2005 -- 2016 | 5                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 21 <sup>(1)</sup>  | TCE     | mg/L  | 2005 -- 2016 | 5                 | 1                 | 20%             | 0.001 U   | 0.00066 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 28                 | TCE     | mg/L  | 2005 -- 2016 | 20                | 1                 | 5%              | 0.00015 J | 0.05 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 31R <sup>(2)</sup> | TCE     | mg/L  | 2005 -- 2014 | 18                | 18                | 100%            | 0.04 J    | 2.5       | 0                  | -87                     | 0.999       | 0%                  | NT or Decreasing  | -3.5E-04                |
| MW 37                 | TCE     | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 40                 | TCE     | mg/L  | 2005 -- 2016 | 28                | 12                | 43%             | 0.0013 U  | 0.83 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 41                 | TCE     | mg/L  | 2005 -- 2016 | 27                | 1                 | 4%              | 0.00017 J | 0.63 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 42                 | TCE     | mg/L  | 2005 -- 2016 | 27                | 1                 | 4%              | 0.00011 J | 0.71 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 46                 | TCE     | mg/L  | 2005 -- 2016 | 11                | 2                 | 18%             | 0.00013 J | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 49                 | TCE     | mg/L  | 2005 -- 2016 | 19                | 6                 | 32%             | 0.00041 J | 0.04 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 51                 | TCE     | mg/L  | 2008 -- 2016 | 16                | 16                | 100%            | 0.14      | 0.3       | 0                  | -81                     | 1.000       | 0%                  | NT or Decreasing  | -4.3E-05                |
| MW 56                 | TCE     | mg/L  | 2005 -- 2016 | 13                | 1                 | 8%              | 0.001 U   | 0.00067 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 57                 | TCE     | mg/L  | 2005 -- 2016 | 19                | 2                 | 11%             | 0.00011 J | 0.002 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 58                 | TCE     | mg/L  | 2005 -- 2016 | 14                | 2                 | 14%             | 0.001 U   | 0.05 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 61                 | TCE     | mg/L  | 2005 -- 2016 | 10                | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 64                 | TCE     | mg/L  | 2005 -- 2016 | 14                | 5                 | 36%             | 0.00011 J | 0.063     | --                 | --                      | --          | --                  | --                | --                      |
| MW 65                 | TCE     | mg/L  | 2005 -- 2016 | 14                | 0                 | 0%              | 0.001 U   | 0.17 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 66                 | TCE     | mg/L  | 2005 -- 2016 | 22                | 1                 | 5%              | 0.00034 J | 0.1 U     | --                 | --                      | --          | --                  | --                | --                      |
| MW 68                 | TCE     | mg/L  | 2005 -- 2016 | 29                | 28                | 97%             | 0.1       | 2.6       | 0                  | 130                     | 0.008       | 99%                 | <b>Increasing</b> | 3.5E-04                 |
| MW 75                 | TCE     | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 76                 | TCE     | mg/L  | 2005 -- 2014 | 9                 | 1                 | 11%             | 0.00021 J | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 79                 | TCE     | mg/L  | 2005 -- 2016 | 18                | 1                 | 6%              | 0.001 U   | 0.12      | --                 | --                      | --          | --                  | --                | --                      |
| MW 80                 | TCE     | mg/L  | 2005 -- 2016 | 13                | 1                 | 8%              | 0.00021 J | 0.0083 U  | --                 | --                      | --          | --                  | --                | --                      |
| MW 81                 | TCE     | mg/L  | 2005 -- 2016 | 15                | 0                 | 0%              | 0.001 U   | 0.008 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 82                 | TCE     | mg/L  | 2005 -- 2016 | 12                | 1                 | 8%              | 0.001 U   | 0.00066 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 83                 | TCE     | mg/L  | 2005 -- 2016 | 13                | 1                 | 8%              | 0.00023 J | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 84                 | TCE     | mg/L  | 2005 -- 2016 | 6                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 85                 | TCE     | mg/L  | 2008 -- 2016 | 18                | 1                 | 6%              | 0.001 U   | 0.56 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 86                 | TCE     | mg/L  | 2010 -- 2016 | 7                 | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 88                 | TCE     | mg/L  | 2010 -- 2016 | 7                 | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 89-11              | TCE     | mg/L  | 2011 -- 2016 | 10                | 1                 | 10%             | 0.00032 J | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW97R-16              | TCE     | mg/L  | 2016 -- 2016 | 1                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| Pond Intake           | TCE     | mg/L  | 2005 -- 2016 | 45                | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| Pond North            | TCE     | mg/L  | 2005 -- 2016 | 45                | 0                 | 0%              | 0.001 U   | 0.033 U   | --                 | --                      | --          | --                  | --                | --                      |

Table D.2

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| Location             | Analyte     | Units | Date Range   | Number of Samples | Number of Detects | Percent Detects | Minimum   | Maximum   | Number of Outliers | Mann-Kendall Trend test |             |                     |                   | Sen's Slope (units/day) |
|----------------------|-------------|-------|--------------|-------------------|-------------------|-----------------|-----------|-----------|--------------------|-------------------------|-------------|---------------------|-------------------|-------------------------|
|                      |             |       |              |                   |                   |                 |           |           |                    | Statistic               | Probability | Confidence in trend | Conclusion        |                         |
| MW-2                 | cis-1,2-DCE | mg/L  | 2007 -- 2016 | 12                | 2                 | 17%             | 0.00015 J | 0.0021    | --                 | --                      | --          | --                  | --                | --                      |
| MW 3                 | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 28                | 27                | 96%             | 0.0042 U  | 12        | 0                  | -5                      | 0.532       | 47%                 | NT or Decreasing  | -1.1E-04                |
| MW-4                 | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 28                | 28                | 100%            | 5.4       | 23        | 1                  | 41                      | 0.214       | 79%                 | NT or Decreasing  | 4.2E-04                 |
| MW 8                 | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 25                | 25                | 100%            | 0.24      | 22        | 1                  | -123                    | 0.998       | 0%                  | NT or Decreasing  | -0.002                  |
| MW 12                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 0.08      | 1         | 0                  | -291                    | 1.000       | 0%                  | NT or Decreasing  | -1.5E-04                |
| MW 14                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 0.33      | 7.7       | 1                  | -103                    | 0.984       | 2%                  | NT or Decreasing  | -3.9E-04                |
| MW 15 <sup>(1)</sup> | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 8                 | 8                 | 100%            | 1.7       | 29        | 0                  | -22                     | 0.859       | 14%                 | NT or Decreasing  | -1.6                    |
| MW 16                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 5                 | 2                 | 40%             | 0.00026 J | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 21 <sup>(1)</sup> | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 5                 | 1                 | 20%             | 0.001 U   | 0.00092 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 28                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 20                | 10                | 50%             | 0.001 U   | 0.86      | --                 | --                      | --          | --                  | --                | --                      |
| MW 31R               | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 26                | 26                | 100%            | 5.1       | 45        | 1                  | -48                     | 0.850       | 15%                 | NT or Decreasing  | -0.001                  |
| MW 37                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 11                | 1                 | 9%              | 0.001 U   | 0.0011    | --                 | --                      | --          | --                  | --                | --                      |
| MW 40                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 28                | 28                | 100%            | 5         | 17        | 0                  | -202                    | 1.000       | 0%                  | NT or Decreasing  | -0.002                  |
| MW 41                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 4.3       | 10        | 0                  | -9                      | 0.566       | 43%                 | NT or Decreasing  | -3.0E-05                |
| MW 42                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 3.2       | 12        | 0                  | -211                    | 1.000       | 0%                  | NT or Decreasing  | -0.001                  |
| MW 46                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 49                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 19                | 18                | 95%             | 0.001 U   | 0.9       | 0                  | 119                     | 0.000       | 100%                | <b>Increasing</b> | 2.6E-04                 |
| MW 51                | cis-1,2-DCE | mg/L  | 2008 -- 2016 | 16                | 15                | 94%             | 0.0067 U  | 0.012     | 0                  | 26                      | 0.130       | 87%                 | NT or Decreasing  | 6.5E-07                 |
| MW 56                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 13                | 3                 | 23%             | 0.00021 J | 0.003     | --                 | --                      | --          | --                  | --                | --                      |
| MW 57                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 19                | 7                 | 37%             | 0.00014 J | 0.0042    | --                 | --                      | --          | --                  | --                | --                      |
| MW 58                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 14                | 3                 | 21%             | 0.001 U   | 1.1       | --                 | --                      | --          | --                  | --                | --                      |
| MW 61                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 10                | 1                 | 10%             | 0.00035 J | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 64                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 14                | 7                 | 50%             | 0.00014 J | 0.25      | --                 | --                      | --          | --                  | --                | --                      |
| MW 65                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 14                | 14                | 100%            | 0.028     | 3         | 0                  | -48                     | 0.995       | 0%                  | NT or Decreasing  | -0.001                  |
| MW 66                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 22                | 16                | 73%             | 0.00012 J | 1.8       | --                 | --                      | --          | --                  | --                | --                      |
| MW 68                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 29                | 29                | 100%            | 3.5       | 16        | 0                  | -297                    | 1.000       | 0%                  | NT or Decreasing  | -0.002                  |
| MW 75                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 11                | 1                 | 9%              | 0.001 U   | 0.0007 J  | --                 | --                      | --          | --                  | --                | --                      |
| MW 76                | cis-1,2-DCE | mg/L  | 2005 -- 2014 | 9                 | 4                 | 44%             | 0.00019 J | 0.00099 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 79                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 18                | 18                | 100%            | 0.79      | 2.9       | 0                  | 101                     | 7.4E-05     | 100%                | <b>Increasing</b> | 4.5E-04                 |
| MW 80                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 13                | 3                 | 23%             | 0.00013 J | 0.025     | --                 | --                      | --          | --                  | --                | --                      |
| MW 81                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 15                | 8                 | 53%             | 0.00024 J | 0.19      | --                 | --                      | --          | --                  | --                | --                      |
| MW 82                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 12                | 2                 | 17%             | 0.00041 J | 0.0022    | --                 | --                      | --          | --                  | --                | --                      |
| MW 83                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 13                | 2                 | 15%             | 0.00032 J | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 84                | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 6                 | 2                 | 33%             | 0.00027 J | 0.001     | --                 | --                      | --          | --                  | --                | --                      |
| MW 85                | cis-1,2-DCE | mg/L  | 2008 -- 2016 | 18                | 13                | 72%             | 0.001 U   | 10        | --                 | --                      | --          | --                  | --                | --                      |
| MW 86                | cis-1,2-DCE | mg/L  | 2010 -- 2016 | 7                 | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 88                | cis-1,2-DCE | mg/L  | 2010 -- 2016 | 7                 | 0                 | 0%              | 0.001 U   | 0.005 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 89-11             | cis-1,2-DCE | mg/L  | 2011 -- 2016 | 10                | 3                 | 30%             | 0.0003 J  | 0.00055 J | --                 | --                      | --          | --                  | --                | --                      |
| MW97R-16             | cis-1,2-DCE | mg/L  | 2016 -- 2016 | 1                 | 1                 | 100%            | 0.0012    | 0.0012    | --                 | --                      | --          | --                  | --                | --                      |
| Pond Intake          | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 45                | 23                | 51%             | 0.00019 J | 0.11      | --                 | --                      | --          | --                  | --                | --                      |
| Pond North           | cis-1,2-DCE | mg/L  | 2005 -- 2016 | 45                | 25                | 56%             | 0.00016 J | 0.5       | --                 | --                      | --          | --                  | --                | --                      |

Table D.2

**Descriptive Statistics and Trend Test Results**  
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| Location             | Analyte        | Units | Date Range   | Number of Samples | Number of Detects | Percent Detects | Minimum   | Maximum   | Number of Outliers | Mann-Kendall Trend test |             |                     |                   | Sen's Slope (units/day) |
|----------------------|----------------|-------|--------------|-------------------|-------------------|-----------------|-----------|-----------|--------------------|-------------------------|-------------|---------------------|-------------------|-------------------------|
|                      |                |       |              |                   |                   |                 |           |           |                    | Statistic               | Probability | Confidence in trend | Conclusion        |                         |
| MW-2                 | Vinyl chloride | mg/L  | 2007 -- 2016 | 12                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 3 <sup>(2)</sup>  | Vinyl chloride | mg/L  | 2005 -- 2015 | 18                | 18                | 100%            | 0.00027 J | 2         | 0                  | -32                     | 0.880       | 12%                 | NT or Decreasing  | -4.1E-05                |
| MW-4                 | Vinyl chloride | mg/L  | 2005 -- 2016 | 28                | 28                | 100%            | 0.38 J    | 2.1       | 0                  | -196                    | 1.000       | 0%                  | NT or Decreasing  | -1.8E-04                |
| MW 8                 | Vinyl chloride | mg/L  | 2005 -- 2016 | 25                | 25                | 100%            | 0.027     | 6.9       | 2                  | -37                     | 0.801       | 20%                 | NT or Decreasing  | -6.8E-05                |
| MW 12                | Vinyl chloride | mg/L  | 2005 -- 2016 | 27                | 1                 | 4%              | 0.0014 U  | 0.05 U    | --                 | --                      | --          | --                  | --                | --                      |
| MW 14                | Vinyl chloride | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 0.0087 J  | 0.51      | 0                  | -186                    | 1.000       | 0%                  | NT or Decreasing  | -5.5E-05                |
| MW 15 <sup>(1)</sup> | Vinyl chloride | mg/L  | 2005 -- 2016 | 8                 | 6                 | 75%             | 0.1 U     | 1.7       | 0                  | -19                     | 0.823       | 18%                 | NT or Decreasing  | -0.124                  |
| MW 16                | Vinyl chloride | mg/L  | 2005 -- 2016 | 5                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 21 <sup>(1)</sup> | Vinyl chloride | mg/L  | 2005 -- 2016 | 5                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 28                | Vinyl chloride | mg/L  | 2005 -- 2016 | 20                | 20                | 100%            | 0.057     | 0.22      | 0                  | 90                      | 0.002       | 100%                | <b>Increasing</b> | 2.8E-05                 |
| MW 31R               | Vinyl chloride | mg/L  | 2005 -- 2016 | 26                | 26                | 100%            | 0.63      | 13        | 0                  | -163                    | 1.000       | 0%                  | NT or Decreasing  | -0.001                  |
| MW 37                | Vinyl chloride | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 40                | Vinyl chloride | mg/L  | 2005 -- 2016 | 28                | 28                | 100%            | 0.31      | 2.1       | 0                  | -73                     | 0.923       | 8%                  | NT or Decreasing  | -1.2E-04                |
| MW 41                | Vinyl chloride | mg/L  | 2005 -- 2016 | 27                | 27                | 100%            | 0.14 J    | 0.73      | 0                  | 181                     | 8.6E-05     | 100%                | <b>Increasing</b> | 9.5E-05                 |
| MW 42                | Vinyl chloride | mg/L  | 2005 -- 2016 | 27                | 26                | 96%             | 0.084 J   | 0.25 J    | 0                  | -17                     | 0.632       | 37%                 | NT or Decreasing  | -5.4E-06                |
| MW 46                | Vinyl chloride | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.002 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 49                | Vinyl chloride | mg/L  | 2005 -- 2016 | 19                | 18                | 95%             | 0.011 J   | 0.085     | 0                  | -95                     | 1.000       | 0%                  | NT or Decreasing  | -1.7E-05                |
| MW 51                | Vinyl chloride | mg/L  | 2008 -- 2016 | 16                | 7                 | 44%             | 0.001 U   | 0.017 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 56                | Vinyl chloride | mg/L  | 2005 -- 2016 | 13                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 57                | Vinyl chloride | mg/L  | 2005 -- 2016 | 19                | 8                 | 42%             | 0.00018 J | 0.046     | --                 | --                      | --          | --                  | --                | --                      |
| MW 58                | Vinyl chloride | mg/L  | 2005 -- 2016 | 14                | 12                | 86%             | 0.001 U   | 0.16      | 0                  | 53                      | 0.002       | 100%                | <b>Increasing</b> | 3.4E-05                 |
| MW 61                | Vinyl chloride | mg/L  | 2005 -- 2016 | 10                | 4                 | 40%             | 0.00029 J | 0.002 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 64                | Vinyl chloride | mg/L  | 2005 -- 2016 | 14                | 13                | 93%             | 0.001 U   | 0.045     | 0                  | 67                      | 0.000       | 100%                | <b>Increasing</b> | 9.6E-06                 |
| MW 65                | Vinyl chloride | mg/L  | 2005 -- 2016 | 14                | 11                | 79%             | 0.0012 J  | 1.2 J     | 0                  | -37                     | 0.976       | 2%                  | NT or Decreasing  | -2.2E-04                |
| MW 66                | Vinyl chloride | mg/L  | 2005 -- 2016 | 22                | 22                | 100%            | 0.0031    | 0.33      | 0                  | 147                     | 1.8E-05     | 100%                | <b>Increasing</b> | 4.1E-05                 |
| MW 68                | Vinyl chloride | mg/L  | 2005 -- 2016 | 29                | 29                | 100%            | 0.097 J   | 0.43 J    | 0                  | -81                     | 0.934       | 7%                  | NT or Decreasing  | -1.5E-05                |
| MW 75                | Vinyl chloride | mg/L  | 2005 -- 2016 | 11                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 76                | Vinyl chloride | mg/L  | 2005 -- 2014 | 9                 | 2                 | 22%             | 0.00048 J | 0.00051 J | --                 | --                      | --          | --                  | --                | --                      |
| MW 79                | Vinyl chloride | mg/L  | 2005 -- 2016 | 18                | 18                | 100%            | 0.12      | 0.33      | 0                  | -47                     | 0.960       | 4%                  | NT or Decreasing  | -2.3E-05                |
| MW 80                | Vinyl chloride | mg/L  | 2005 -- 2016 | 13                | 13                | 100%            | 0.0134    | 0.15      | 0                  | -16                     | 0.820       | 18%                 | NT or Decreasing  | -1.2E-05                |
| MW 81                | Vinyl chloride | mg/L  | 2005 -- 2016 | 15                | 15                | 100%            | 0.0034    | 0.066     | 0                  | 84                      | 2.0E-05     | 100%                | <b>Increasing</b> | 1.3E-05                 |
| MW 82                | Vinyl chloride | mg/L  | 2005 -- 2016 | 12                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 83                | Vinyl chloride | mg/L  | 2005 -- 2016 | 13                | 6                 | 46%             | 0.0003 J  | 0.0053    | --                 | --                      | --          | --                  | --                | --                      |
| MW 84                | Vinyl chloride | mg/L  | 2005 -- 2016 | 6                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 85                | Vinyl chloride | mg/L  | 2008 -- 2016 | 18                | 18                | 100%            | 0.25      | 0.84      | 0                  | 1                       | 0.500       | 50%                 | NT or Decreasing  | 3.8E-06                 |
| MW 86                | Vinyl chloride | mg/L  | 2010 -- 2016 | 7                 | 0                 | 0%              | 0.001 U   | 0.002 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW 88                | Vinyl chloride | mg/L  | 2010 -- 2016 | 7                 | 3                 | 43%             | 0.00034 J | 0.0019    | --                 | --                      | --          | --                  | --                | --                      |
| MW 89-11             | Vinyl chloride | mg/L  | 2011 -- 2016 | 10                | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| MW97R-16             | Vinyl chloride | mg/L  | 2016 -- 2016 | 1                 | 0                 | 0%              | 0.001 U   | 0.001 U   | --                 | --                      | --          | --                  | --                | --                      |
| Pond Intake          | Vinyl chloride | mg/L  | 2005 -- 2016 | 45                | 32                | 71%             | 0.00029 J | 0.008     | --                 | --                      | --          | --                  | --                | --                      |
| Pond North           | Vinyl chloride | mg/L  | 2005 -- 2016 | 45                | 33                | 73%             | 0.00035 J | 0.5       | --                 | --                      | --          | --                  | --                | --                      |

Table D.2

**Descriptive Statistics and Trend Test Results**  
**2016 Annual Groundwater Monitoring Report**  
**2915 Dr. Martin Luther King Jr. Boulevard,**  
**Anderson, Indiana**

| Location | Analyte | Units | Date Range | Number of<br>Samples | Number of<br>Detects | Percent<br>Detects | Minimum | Maximum | Number of<br>Outliers | Mann-Kendall Trend test |             |                        |            | Sen's<br>Slope<br>(units/day) |
|----------|---------|-------|------------|----------------------|----------------------|--------------------|---------|---------|-----------------------|-------------------------|-------------|------------------------|------------|-------------------------------|
|          |         |       |            |                      |                      |                    |         |         |                       | Statistic               | Probability | Confidence<br>in trend | Conclusion |                               |

Notes:

<sup>(1)</sup> Due to changes in sampling frequency, earlier data were combined into annual averages. Due a gap in the monitoring record, the assumption of data equally spaced through time was not met. Therefore supplementary tests were performed (see text for details).

<sup>(2)</sup> Trend test was calculated using detected values only, due to elevated detection limits for non-detects.

-- Trend test not performed due to infrequent detections (i.e., fewer than 75 percent detects).

NT or Decreasing - A statistically-significant (90 percent confidence) increasing trend was not found.

Analyte concentrations may be stable or decreasing over time. (Per approved Monitoring Plan, a 1-sided test is performed).

Well MW 76 was not sampled during the 2016 monitoring event.