

# FIRST 2020 SEMI-ANNUAL GROUNDWATER & SURFACE WATER MONITORING REPORT

Prepared For:



**Forsyth County – Hightower Road Landfill**  
Permit Nos. 058-006D(L), 058-009(SL), and 058-010D(SL)  
Ball Ground, Georgia

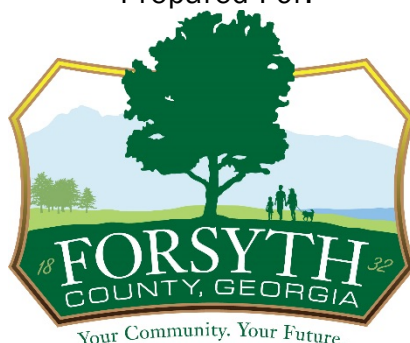
Prepared By:



ATLANTIC COAST  
CONSULTING, INC.

# FIRST 2020 SEMI-ANNUAL GROUNDWATER & SURFACE WATER MONITORING REPORT

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## Forsyth County – Hightower Road Landfill

Permitted Name: Forsyth Co - Hightower Rd  
Ph 1 (SL), Ph 3 (SL), Ph 4 MSWL  
Permit Nos. 058-006D(L), 058-009(SL), and 058-010D(SL)  
Ball Ground, Georgia

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Assessment Monitoring Event  
Dates of Sampling: June 22-26, 2020

Prepared By:



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CONSULTING, INC.

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## Introduction

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this semi-annual Groundwater and Surface Water Monitoring Report for the Hightower Road Municipal Solid Waste Landfill (MSWL). The purpose of this report is to provide a summary and evaluation of the results of the recent groundwater and surface water monitoring event, which is required by the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.14. This report includes a professional geologist certification and compliance statement, a summary of site conditions, a description of sampling and analysis, a potentiometric map based on groundwater level measurements recorded for this event, determination of groundwater flow rate and direction, a summary of analytical results, and a statistical analysis of the analytical data.

## Professional Geologist Certification and Compliance Statement

This report has been prepared by a registered professional geologist in general accordance with Georgia Chapter 391-3-4 Solid Waste Regulations. The seal below certifies that a sufficiently trained and experienced qualified groundwater scientist with a baccalaureate degree in natural sciences has prepared and/or reviewed this report. The undersigned is qualified to make sound, professional judgments regarding groundwater monitoring and contaminant fate and transport. The information contained in this report is to the best of the undersigned's knowledge and belief, true, accurate, and complete.

ATLANTIC COAST CONSULTING, INC.



Charles B. Adams, P.G.

This certification statement is provided in accordance with the Solid Waste Management Rules of Georgia Chapter 391-3-4-.07(3)(v). This semi-annual Groundwater and Surface Water Monitoring Report is provided to document the results of the June 2020 sampling event at the Hightower Road MSWL. As documented in this report, there were constituent concentrations above established compliance standards. Therefore, as a qualified groundwater scientist, I certify that these constituents are not in compliance with established standards as documented herein. The facility is in compliance with appropriate Rules of Georgia Solid Waste Management, because an Assessment of Corrective Measures (ACM) Study and Corrective Action Plan (CAP) have been completed and are being implemented.

## Summary of Site

The Forsyth County Hightower Road Landfill is a closed MSWL consisting of four phases (Phases I through IV) located in northwest Forsyth County, Georgia. Phases I and II operated under EPD Solid Waste Handling Permit No. 058-006D(L) from 1986 until 1994, Phase III under EPD Solid Waste Handling Permit No. 058-009D(SL) from 1991 until 1995, and Phase IV under EPD Solid Waste Handling Permit No. 058-010D(SL) from 1993 until 1997. Closure activities for the entire facility were completed in 1999.

An ACM report completed in 2004 concluded that the source of volatile organic compounds (VOCs) in groundwater at the facility was primarily due to landfill gas (LFG), and various means of reducing LFG impacts to groundwater were evaluated. The ACM proposed a combination of monitored natural attenuation (MNA) and LFG migration control to remediate the site. Forsyth County subsequently held a public meeting to review the ACM results and solicit comments from the public regarding the selection of corrective measures. After completion of the public comment phase, corrective measures that were demonstrated to meet the requirements of Rule 391-3-4.14(39) in the ACM were selected for long-term implementation at the facility. The measures consist of LFG migration control and MNA. The ACM was approved by EPD in 2005.

ACC submitted the *Interim CAP* to EPD for review in January 2007. The interim CAP proposed the implementation of MNA from the ACM, as well as the installation of several LFG interceptor vent trenches and the retrofitting of a passive vacuum source (individual turbines) to the existing in-waste gas vents. Three LFG interceptor trenches were completed in late 2007 and have reduced methane gas concentrations in methane monitoring wells. A Final CAP was submitted to EPD in July 2008 and presented a milestone schedule for implementing further corrective actions. The EPD conditionally approved the *Request for Minor Modification to Solid Waste Handling Permit* that added the CAP to the permit (pending submittal of remedial cost information), and annual MNA groundwater sampling was initiated during the second 2007 event. In response to the conditional approval of the CAP, a table summarizing actual and estimated remedial costs for the corrective action program and a revised CAP implementation schedule were submitted to EPD March 12, 2009. In accordance with this updated CAP schedule, Corrective Measures Status Evaluation Reports are completed every three years and include evaluations of the selected long-term remedies.

Forsyth County submitted a *Request for Minor Modification to Solid Waste Handling Permit* for a gas extraction system in September 2009. That design included replacing six passive vents with vertical gas extraction wells equipped with solar-powered flare/blower units (the vents included two vents in Phase I and four vents in Phase II). This design was approved by EPD on April 15, 2010. Forsyth County has implemented this design, and the installation certification report was submitted to EPD on October 14, 2011.

Off-site well W-3 was abandoned in May 2014 and off-site well W-2 was abandoned in September 2014. The sampling requirements for off-site wells W-2 and W-3 were removed from the permit via a *Request for Minor Modification to Solid Waste Handling Permit*, which was approved by EPD June 16, 2015.

Forsyth County submitted a March 2017 *Request for Minor Modification to Solid Waste Handling Permit* to remove all off-site sampling requirements from the permit for two off-site water wells (W-1 and W-4) and two “springs” (S-1 and S-2), based on a 13-year history of sampling analysis, with no confirmed VOC detections in well samples or spring samples, and

only sporadic detections of naturally occurring metals barium, copper, and/or zinc in off-site well samples. The March 2017 *Request for Minor Modification* also included an adjustment to the frequency for full Appendix II analyte monitoring to correspond with triennial corrective measures evaluation reports. EPD approved the permit modification on April 20, 2017.

Forsyth County provided adjacent property owner and public notification of sample results above groundwater protection standards (GWPS) in two wells along the northern property boundary in accordance with Rule 391-3-4-.17(6) and EPD correspondence dated April 25, 2017. A copy of the publisher's affidavit for the newspaper notice and adjacent property owner notifications were provided to EPD July 7, 2017, October 2, 2017, and April 24, 2018. Future public notifications will also be submitted to EPD, when required.

### Geologic Setting

The site is divided into two different lithologies by the Allatoona Fault, which runs through the northwest section of the site. All four phases of the landfill are located to the southeast of this fault and are underlain by the Canton formation. The Canton formation is often considered to be the inner-most belt of the Piedmont physiographic province; belts to the northwest of this formation are designated as part of the Blue Ridge physiographic province. The Canton formation is composed of carbonaceous/graphitic, garnetiferous mica schist inter-layered with amphibolite. The Chattahoochee fault runs sub-parallel to and southeast of the Allatoona Fault; the area between these two faults (that includes much of this site) is commonly referred to as the "Dahlonega Gold Belt".

### Monitoring Program

There are 13 groundwater monitoring network wells and 3 AMW series wells utilized to monitor groundwater conditions near Phase I of the facility, and 34 monitoring network wells and 10 AMW series wells to monitor Phases II – IV. Throughout the site, well clusters have been installed to monitor vertical gradients and/or stratification of potential impacts. The shallowest wells have no suffix (e.g. GWC-8), the intermediate wells have an "A" suffix (e.g. GWC-8A), and the deepest wells (installed in rock) have an "R" suffix (e.g. GWC-8R). Surface water is monitored for permit-required parameters (Georgia Table 1 Surface Water Parameters) at 11 locations around the facility. Two surface water locations (SWC-4 and SWC-6) are voluntarily sampled for Appendix I VOCs.

During the first semi-annual sampling event, assessment monitoring wells are sampled for Appendix II VOCs and Appendix I metals, and detection wells are sampled for Appendix I parameters as listed in Table A. During the second semi-annual monitoring event, assessment wells are sampled for Appendix I parameters plus any verified Appendix II analytes, select wells are sampled for CAP-required MNA parameters, and detection wells are sampled for Appendix I parameters. Once every three years, assessment monitoring wells are sampled for the full Appendix II analyte list; monitoring locations were sampled for Appendix II analytes during the June 2019 event. The next triennial event is scheduled for June 2022. Some AMW series wells are sampled/analyzed for Appendix I VOCs as warranted by the data (i.e., to provide delineation) and are sampled for the required parameters listed in Table A. Additionally, Appendix I VOCs are collected from SWC-4 and SWC-6 for delineation purposes. Any Appendix II constituents that become verified in an assessment well are added to the analyte list for the well it was detected in for the second semi-annual monitoring event. Historically, the addition of Appendix II analysis to assessment wells has not yielded additional consistently detected analytes.

As described in the July 26, 2013 *Response to EPD Comments*, the landfill has redundant monitoring in the saprolite/bedrock aquifer, and these two zones have been demonstrated to be interconnected in the 1992 Site Assessment Report; therefore, if these wells are dry, the well complements are sampled, as shown on the following table:

ID	Complement
GWA-1	GWA-1A
GWC-3	GWC-3A
GWC-4	GWC-4A
GWC-8	GWC-8A
GWC-14	GWC-14A
GWC-15	AMW-1
GWC-16A	AMW-2
GWC-18	AMW-5

The CAP requires sampling of MNA parameters from assessment wells on an annual basis; MNA sampling began with the second 2007 monitoring event. These MNA parameters include dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, oxidation-reduction potential (ORP), carbon dioxide, total dissolved solids (TDS), and alkalinity. Table A presents a summary of the current analyte lists for all monitoring locations. The CAP-prescribed schedule for review of MNA data is a triennial basis. The first MNA/CAP review was completed during the second 2010 event, and subsequent reviews were completed during the second 2013, second 2016, and second 2019 events. The reviews were submitted to EPD as attachments to the respective groundwater monitoring reports.

In accordance with the groundwater monitoring plan, all detected analyte concentrations are compared to a GWPS. The GWPS is the United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL), or in cases where no MCL exists, an alternate GWPS is utilized. The ACM established alternative GWPS for analytes that have no established MCL per rule 391-3-4-.14(32).

Eleven surface water sampling points (SWA-1, SWA-2, and SWC-1 through SWC-9) are monitored semi-annually at the landfill. When water is present, surface water samples are analyzed for chemical oxygen demand (COD), total cyanide, total organic carbon, chloride, and metals.

### **Purging and Sampling Procedures**

All samples were collected in accordance with the EPD-approved groundwater monitoring plan for Forsyth County – Hightower Road Landfill. Groundwater samples were collected following the procedures summarized below:

- All sampling equipment was decontaminated prior to use at each sampling location.
- New gloves were donned prior to sampling and changed appropriately to avoid cross contaminating samples or sampling equipment.

- Depth to groundwater was measured with an electronic water level indicator and recorded prior to sample collection and used to calculate purge volume prior to sample collection.
- A minimum of three well volumes were removed, or the well was purged dry. Disposable Teflon® bailers were used to purge all wells, except for PH1-GWA-1A, PH1-GWA-3A, PH1-GWC-2, GWA-1A, GWC-4A, GWC-8R, AMW-1, and AMW-2, where a Grundfos stainless steel submersible pump attached to disposable Teflon lined tubing was used.
- Parameters including pH, temperature, turbidity, and specific conductance were measured and recorded during purging and at the time of sampling. Field-collected parameters are summarized in Table 1.
- A brief groundwater recovery period was allowed for each well.
- Representative VOC samples were collected following purging. Samples for metals analysis were collected immediately if turbidity was less than 10 nephelometric turbidity units (NTU), or if turbidity was above 10 NTU on the following day (within 24 hours of purging) after allowing the water column to settle to obtain less turbid samples. Immediately after sample collection, all containers were labeled, placed on ice in laboratory-provided coolers, and delivered to the laboratory for analysis under chain-of-custody documentation.
- A trip blank was provided for the event and analyzed for Appendix I VOCs.
- Two field blanks were collected during the event and analyzed for Appendix I constituents.

Surface water samples were collected utilizing grab sampling techniques following the procedures summarized below:

- New gloves were donned prior to sampling and changed appropriately to avoid cross contaminating samples.
- Parameters including pH, temperature, turbidity, specific conductance, and dissolved oxygen were measured and recorded at the time of sampling.
- Immediately after sample collection, all containers were labeled, placed on ice in laboratory-provided coolers, and delivered to the laboratory for analysis under chain-of-custody documentation.

Groundwater monitoring well information, including depth to water measurements and groundwater elevation calculations are included in Table 2. Laboratory analytical data are summarized in Tables 3 and 4.

### Laboratory Methods

Laboratory analyses were performed in accordance with approved U.S. EPA methodology as set forth in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, Third Edition, December 1996, SW-846, and subsequent revisions. During this event and prior sampling events, independent samples from each approved groundwater monitoring location were collected and analyzed for the applicable Appendix I (and/or Appendix II where applicable) constituents as listed in 40 Code of Federal Regulations (CFR) Part 258, Subpart E, 56 Fed.



Reg. 51028-51029 (October 9, 1991), and *Rules for Solid Waste Management* [Chapter 391-3-4-.14(22)], as amended. The laboratory analytical results, quality control data, and chain-of-custody records for this semi-annual groundwater monitoring event are included in Attachment A of this report. Results of these analyses are discussed in the following sections.

### Laboratory Certification

Analytical Environmental Services, Inc. (AES) is an approved laboratory (in accordance with 391-3-26-.05) for the analysis of solid/hazardous waste and is accredited by National Environmental Laboratory Accreditation Program (NELAP). Accreditation issuing authorities, certification identifications, and expiration dates are provided in the laboratory analytical reports.

### Discussion of Sampling Results

#### Groundwater

Samples from the first 2020 semi-annual monitoring event were collected on June 22-26, 2020. The samples were analyzed by AES of Atlanta, Georgia. Samples were collected and analyzed from network detection and assessment monitoring wells for Appendix I/II parameters during this monitoring event as detailed in Table A. Monitoring wells GWC-15 and GWC-16A were dry or purged dry and did not recharge and were not sampled. Groundwater monitoring wells AMW-1 and AMW-2 were sampled as surrogate wells for GWC-15 and GWC-16A, respectively.

An evaluation of the June 2020 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 12 network groundwater well samples and 7 AMW series well samples as summarized on Table 3. The concentrations of 4 VOCs in one or more assessment well samples were above the respective GWPS: cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. A summary of organic detections is presented below:

- All verified, detected VOCs were in samples from assessment monitoring wells or AMW series wells.
- The previous, unverified detection of cis 1,2-DCE from the sample from GWC-8 was not detected during this event and is considered unverified.
- The concentration of chloroethane in the sample from GWC-14A at 3.3 micrograms per liter ( $\mu\text{g/L}$ ) was below the GWPS (4.6  $\mu\text{g/L}$ ). The concentrations in this well are trending down from the initial concentration of 100  $\mu\text{g/L}$  in November 2001.
- There was an unverified detection of chlorobenzene (12  $\mu\text{g/L}$ ) in the sample from GWC-14A, below the GWPS (110  $\mu\text{g/L}$ ). This detection will be reevaluated in the second 2020 sampling event. The concentration of vinyl chloride in the sample from GWC-14A was above the GWPS (2  $\mu\text{g/L}$ ). Vinyl chloride is not detected in GWC-13 that is located downgradient of GWC-14A.
- The concentration of cis-1,2-DCE in the sample from AMW-1 was above the GWPS (70  $\mu\text{g/L}$ ). The concentration of cis-1,2-DCE in the sample from AMW-12R that is downgradient of AMW-1 was below the GWPS.

- The concentrations of PCE in samples from PH1-GWC-3, GWC-18, AMW-1, and AMW-12R were above the GWPS (5 µg/L). The unverified detection of PCE from the sample from PH1-GWA-2 during the previous event was not detected during this event.
- The concentrations of TCE in samples from PH1-GWC-3 and AMW-1 were above the GWPS (5 µg/L). TCE was not detected in the SWC-6 sample that is located downgradient of PH1-GWC-3. Also, TCE was below the GWPS in the sample from AMW-12R located downgradient of AMW-1.
- The detections of VOCs in groundwater are addressed by remedies in the CAP.

A summary of detected metals is presented in Table 4. Appendix I metals barium, chromium, cobalt, copper, nickel, and zinc were detected in one or more groundwater well samples. All detected groundwater metal concentrations were less than their respective GWPS. Low levels of barium were detected in most groundwater samples, and chromium, cobalt, copper, nickel, and zinc were detected less frequently. These metals are considered naturally occurring in site soils.

### Performance Monitoring

In accordance with the CAP, MNA parameters are collected annually during the second monitoring event. MNA data are evaluated in triennial Corrective Measures Status Evaluation Reports and collected from select wells in the assessment monitoring program, three AMW series wells (AMW-4, AMW-5, and AMW-14), and unimpacted upgradient well PH1-GWA-4 (refer to Table A). MNA laboratory analysis includes: total alkalinity, TDS, chloride, sulfate, and nitrate, and field testing for ferrous iron, dissolved oxygen, ORP, and carbon dioxide that is collected annually. An evaluation of the CAP program remedies is completed every three years and previous Corrective Measures Status Evaluation Reports were submitted to EPD with the second 2010, second 2013, second 2016, and second 2019 groundwater monitoring reports. The next Corrective Measures Status Evaluation Report will be provided in conjunction with the second 2022 report.

### Hydraulic Gradient and Groundwater Flow Velocity

The June 2020 groundwater level measurements were used to calculate groundwater elevations and to prepare a potentiometric surface map (Figure 1). The groundwater flow velocity was calculated using the potentiometric surface depicted in Figure 1 and estimated hydraulic conductivity measurements from previous studies of the facility. Groundwater flow velocity calculations are provided in Table 5. The results of these calculations indicate that groundwater flows at a calculated rate of approximately 187 feet per year, generally to the northeast and northwest (in a sub-radial pattern).

### Surface Water

Eleven surface water sampling points (SWA-1, SWA-2, and SWC-1 through SWC-9) are monitored semi-annually at the landfill. Location SWC-9 was dry during this event and was not sampled. Surface water samples are analyzed for COD, total cyanide, total organic carbon, chloride, and metals (as summarized on Table 6). Low-level concentrations of COD, total organic carbon, chloride, and/or barium were detected in one or more samples. In addition, SWC-4 and SWC-6 are monitored for Appendix I VOCs. There were no detections of VOCs in the SWC-4

sample. Due to detections of VOCs above a GWPS in samples from PH1-GWC-3 and PH1-GWC-3A, Appendix I VOC sampling/analysis has voluntarily been added to SWC-6 (see Table A). Refer to correspondence dated June 14, 2017, titled “Response to April 25, 2017 EPD Letter” for the demonstration that SWC-6 is appropriate to monitor groundwater to surface water discharge from PH1-GWC-3/3A. There was a detection of cis-1,2-DCE in the sample from SWC-6 at a concentration of 3.5 µg/L. This SWC-6 concentration of cis-1,2-DCE is well below the MCL of 70 µg/L (there is no instream water quality standard for cis-1,2-DCE). There have been two previous detections of cis-1,2-DCE and the current concentration of 3.5 µg/L is lower (declining trend). Due to this cis-1,2-DCE detection, offsite surface water samples were collected downstream of SWC-4 at locations identified as SWC-4A and SWC-4B. A map depicting these locations is provided as Figure 2. These two samples and a sample from SWC-1 were collected and analyzed for Appendix I VOCs and results are included in Attachment A. There were no detections of VOCs in these three samples. The added surface water points are sampled and analyzed to verify that no VOCs are entering the tributaries of the Etowah River. The SWC-4B location serves as a point to delineate VOC results from AMW-12R.

## Statistical Analysis

According to EPD Rules for Solid Waste Management, a determination must be made as to if there is a statistically significant increase (SSI) over background values for each constituent that is part of the groundwater monitoring program. Paragraph (18) of Georgia Rule 391-3-4-.14 requires using one of the following types of tests: a) parametric analysis of variance (ANOVA), b) ANOVA based on the ranks followed by multiple comparison procedures, c) a tolerance or prediction interval analysis, d) a control chart approach that gives control limits for each constituent, or e) another statistical test method that meets the performance standards of paragraph (19). The statistical analysis was performed in accordance with the Solid Waste Rules. Pertinent sections of the EPA guidance document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance (March 2009)* are utilized, as necessary. The document recommends using one of three types of tests: analysis of variance (ANOVA), tolerance limits, or prediction interval analysis. The document stipulates that a parametric test should be used for all constituents where:

1. The residuals of the data are normally distributed.
2. There is homogeneity of groundwater quality data variance among wells.
3. The proportion of non-detection is less than 15%; and
4. There are no significant seasonal effects upon the data.

If these criteria are not met, then a non-parametric test should be used. None of the constituents meet all four of the criteria. As a result, the statistical test chosen for every Appendix I constituent in the current sampling event was the Kruskal-Wallis, non-parametric ANOVA. This test is based on ranks followed by multiple comparison procedures to identify specific sources of difference. As presented in the CAP, groundwater VOCs occur in two distinct areas of the site. VOCs in groundwater in and around Phase I are not contiguous with those on the north side of the site around Phase II MSWL and Phase III MSWL. As a result, two sets of statistics are utilized, where one set considers only Phase I, and the other set considers the rest of the site.

For the Phase I area, three of five upgradient wells (PH1-GWA-1, PH1-GWA-1A, and PH1-GWA-2) have historic VOC detections and are evaluated statistically along with hydraulically downgradient wells. Therefore PH1-GWA-3A and PH1-GWA-4 are used for upgradient

statistical comparisons. To maintain the integrity of PH1-GWA-4 as a background monitoring location in statistical calculations, the unverified arsenic detection from the December 2011 event has been removed from the statistical database to avoid false negative results. For Phases II-IV of the facility, GWA-1A and GWA-3 have had historical VOC detections and are statistically evaluated as downgradient wells. For Phases II-IV, wells GWA-1 and GWA-2 are used as upgradient wells for statistical purposes. The datasets from surrogate wells AMW-1 and AMW-2 are appended to the datasets for GWC-15 and GWC-16A, respectively, for statistical analysis.

As noted in the CAP, concentration trends in many wells appeared to change following capping activities completed in late 1999 (pathways of gas migration possibly altered). Based on review of the database it was thought to be more conservative to run the statistical analysis with data after capping was completed. Data from the most recent 12 events are evaluated in statistical analysis.

The Kruskal-Wallis non-parametric ANOVA method compares each well with a group of background wells. The Kruskal-Wallis test can only determine which compliance well results are elevated with respect to background but cannot determine which specific samples produce the statistical trigger. Therefore, this statistical method may identify false positive SSIs in wells with historical detections of a parameter when that parameter was not detected in samples from the current sampling.

Further analysis with a non-parametric tolerance interval (NPTI) test shows which specific results from a well indicate an increase over background. The Kruskal-Wallis test was used as a screening statistical test, and the parameters that showed SSIs from Kruskal-Wallis were further analyzed using an NPTI. The NPTI test has the capability of pinpointing which results cause the SSI and can identify Kruskal-Wallis false positive SSIs for parameters not detected in the current sampling data.

Kruskal-Wallis non-parametric ANOVA and NPTI statistical tests are included in Attachment B. Those wells and parameters found to have an SSI over background for the current event as determined by the Kruskal-Wallis ANOVA and the NPTI methods are listed in Table 7.

Nineteen wells had one or more SSIs during this event, and four wells had SSIs identified for analyte concentrations that were above the GWPS (see Table 7). Groundwater detections are addressed by the CAP remedies. Fifteen wells with VOC SSIs are currently in assessment monitoring, and five wells with SSIs are in the detection monitoring program (Table 7). The detection wells with SSIs were triggered only by low levels of barium and/or cobalt. The current concentrations of barium and cobalt are typical of unimpacted groundwater in the region, and concentrations are well below the respective GWPS. It is recommended that these five wells remain in detection monitoring (Table A).

## Summary and Recommendations

The results of the data evaluated from the June 2020 sampling event are summarized below:

- Groundwater generally flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 187 feet per year.
- VOCs at concentrations above respective GWPS are limited to wells in assessment monitoring status. Detections of groundwater VOCs are addressed by the CAP corrective remedies.
- Low-level concentrations of metals are detected in upgradient and downgradient groundwater and surface water sampling points. No verified groundwater metal concentration was above a GWPS, and detected metals are likely naturally occurring.
- There were SSIs for VOC concentrations in samples from assessment monitoring wells. The only SSIs for wells currently in detection monitoring were for low-level concentrations of barium (PH1-GWB-1, PH1-GWC-1, GWC-1, and GWC-9) and cobalt (GWC-14), all below respective GWPS; these detections are attributed to their typical presence in regional soils.
- There were no detections of VOCs in the sample from surface water location SWC-4. SWC-6 had a verified, low-level detection of cis-1,2-DCE well below the MCL. There is no established instream water quality standard and the current detection represents a declining trend. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from groundwater wells PH1-GWC-3 and PH1-GWC-3A. Three additional surface water points were monitored for VOCs (SWC-1, SWC-4A, and SWC-4B) and no VOCs were detected in these samples.
- The overall pattern of VOC detections indicates natural attenuation is occurring, as evidenced by VOC reduction from peak levels and patterns of declining parent compounds like PCE coupled with an increase in daughter compounds (cis-1,2-DCE). Groundwater conditions continue to improve where the total number of sample concentrations above a GWPS has decreased from 29 during the first 2007 event to 8 during the first 2020 event. The total number of SSIs has also decreased from 57 during the first 2007 event to 47 during the first 2020 event.

Forsyth County will continue implementing the EPD-approved monitoring and corrective action program at the Hightower Road MSWL. The next semi-annual monitoring event is scheduled for December 2020.

## TABLES



**Table A**  
**Required Compliance Points & Parameters**  
**Forsyth County - Hightower Road MSWLF**

Location	1st Semi-Annual Event	2nd Semi-Annual Event	Well Status
<b>Phase I Groundwater Locations</b>			
PH1-GWA-1	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWA-1A	App I	App I	Detection
PH1-GWA-2	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWA-3A	App I	App I	Detection
PH1-GWA-4	App I	App I + MNA	Detection
PH1-GWB-1	App I	App I	Detection
PH1-GWB-2	App I	App I	Detection
PH1-GWC-1	App I	App I	Detection
PH1-GWC-2	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-3	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-3A	App II VOCs + App I metals	App I + MNA	Assessment
PH1-GWC-4	App I	App I	Detection
GWC-1	App I	App I	Detection
AMW-8	Water Level Only	Water Level Only	Delineation
AMW-9	App II VOCs + App I metals	App I	Delineation
AMW-10	Water Level Only	Water Level Only	Delineation
<b>Phase II, III, and IV Groundwater Locations</b>			
GWA-1	App I	App I	Detection
GWA-1A	App I	App I	Detection
GWA-2	App I	App I	Detection
GWA-3	App I	App I	Detection
GWC-2	App I	App I	Detection
GWC-3	App I	App I	Detection
GWC-3A	App I	App I	Detection
GWC-4	App I	App I	Detection
GWC-4A	App I	App I	Detection
GWC-5	App I	App I	Detection
GWC-6	App I	App I	Detection
GWC-7	App I	App I	Detection
GWC-8	App I	App I	Detection
GWC-8A	App II VOCs + App I metals	App I + MNA	Assessment
GWC-8R	App II VOCs + SVOCs	App I VOCs + MNA	Assessment (Partial)
GWC-9	App I	App I	Detection
GWC-10	App I	App I	Detection
GWC-10A	App I	App I	Detection
GWC-11	App I	App I	Detection
GWC-12	App I	App I	Detection
GWC-12A	App I	App I	Detection
GWC-13	App I	App I	Detection
GWC-14	App I	App I	Detection
GWC-14A	App II VOCs + App I metals	App I + MNA	Assessment
GWC-14R	App II VOCs + SVOCs	App I VOCs + MNA	Assessment (Partial)
GWC-15	App II VOCs + App I metals	App I + MNA	Assessment
GWC-16A	App II VOCs + App I metals	App I + MNA	Assessment

**Notes:**

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides.
3. Every three years, the full list of Appendix II parameters in 40 CFR Part 258, Subpart E, 56 Fed. Reg. 51032-51039 (October 9, 1991) are analyzed in assessment wells. The next full Appendix II list sampling will be the first 2022 event.
4. GA SW Parameters = metals (As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg), chloride, cyanide, chemical oxygen demand (COD) & total organic carbon (TOC).
5. Verified detections of App II compounds are added to the assessment monitoring analyte list during the second semi-annual monitoring event.
6. MNA = Monitored Natural Attenuation Parameter List (dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, redox (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity).



**Table A (Continued)**  
**Required Compliance Points & Parameters**  
**Forsyth County - Hightower Road MSWLF**

Location	1st Semi-Annual Event	2nd Semi-Annual Event	Well Status
<b>Phase II, III, and IV Groundwater Locations (Continued)</b>			
GWC-17	App II VOCs + App I metals	App I + MNA	Assessment
GWC-18	App II VOCs + App I metals	App I + MNA	Assessment
GWC-19R	App II VOCs + App I metals	App I + MNA	Assessment
GWC-22	App I	App I	Detection
GWC-23	App I	App I	Detection
GWC-23A	App I	App I	Detection
GWC-24	App II VOCs + App I metals	App I VOCs + MNA	Assessment
AMW-1	Water Level Only	Water Level Only	Delineation
AMW-2	Water Level Only	Water Level Only	Delineation
AMW-3	Water Level Only	Water Level Only	Delineation
AMW-4	App II VOCs	App I VOCs + MNA	Delineation
AMW-5	App II VOCs	App I VOCs + MNA	Delineation
AMW-11R	Water Level Only	Water Level Only	Delineation
AMW-12	App II VOCs	App I VOCs	Delineation
AMW-12R	App II VOCs	App I VOCs	Delineation
AMW-13	App II VOCs + App I metals	App I	Delineation
AMW-14	App II VOCs	App I VOCs + MNA	Delineation
FB-1	App I	App I	Quality Control
FB-2	App I	App I	Quality Control
TB	App II VOCs	App I VOCs	Quality Control
<b>Surface Water Locations</b>			
SWA-1	GA SW Parameters	GA SW Parameters	Surface Water
SWA-2	GA SW Parameters	GA SW Parameters	Surface Water
SWC-1	GA SW Parameters	GA SW Parameters	Surface Water
SWC-2	GA SW Parameters	GA SW Parameters	Surface Water
SWC-3	GA SW Parameters	GA SW Parameters	Surface Water
SWC-4	GA SW Parameters + App I VOCs	GA SW Parameters + App I VOCs	Surface Water
SWC-5	GA SW Parameters	GA SW Parameters	Surface Water
SWC-6	GA SW Parameters + App I VOCs	GA SW Parameters + App I VOCs	Surface Water
SWC-7	GA SW Parameters	GA SW Parameters	Surface Water
SWC-8	GA SW Parameters	GA SW Parameters	Surface Water
SWC-9	GA SW Parameters	GA SW Parameters	Surface Water

**Notes:**

1. App I = Appendix I VOCs and metals.
2. App II = Appendix II VOCs and metals, SVOCs, pesticides/PCBs, herbicides.
3. Every three years, the full list of Appendix II parameters in 40 CFR Part 258, Subpart E, 56 Fed. Reg. 51032-51039 (October 9, 1991) are analyzed in assessment wells. The next full Appendix II list sampling will be the first 2022 event.
4. GA SW Parameters = metals (As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg), chloride, cyanide, chemical oxygen demand (COD) & total organic carbon (TOC).
5. Verified detections of App II compounds are added to the assessment monitoring analyte list during the second semi-annual monitoring event.
6. MNA = Monitored Natural Attenuation Parameter List (dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, redox (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity).



**Table 1**  
**Summary of Water Quality Parameters**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
PH1-GWA-1	Bailer	5.06	99	30.4	14.0	0.0
PH1-GWA-1A	Sub. Pump	5.15	48	25.0	9.0	NR
PH1-GWA-2	Bailer	5.69	61	26.1	7.2	0.0
PH1-GWA-3A	Sub. Pump	5.40	38	21.0	0.0	NR
PH1-GWA-4	Bailer	5.79	17	23.4	11.0	NR
PH1-GWB-1	Bailer	5.50	38	24.1	10.4	NR
PH1-GWB-2	Bailer	5.50	36	25.0	17.2	NR
PH1-GWC-1	Bailer	6.25	155	20.3	5.1	NR
PH1-GWC-2	Sub. Pump	5.72	185	31.6	12.9	0.0
PH1-GWC-3	Bailer	5.75	136	20.4	2.6	0.0
PH1-GWC-3A	Bailer	6.42	165	20.0	19.0	0.0
PH1-GWC-4	Bailer	4.70	27	21.2	11.0	NR
GWA-1	Bailer	5.49	93	22.0	11.0	NR
GWA-1A	Sub. Pump	5.91	92	22.7	18.8	NR
GWA-2	Bailer	4.23	133	21.6	12.0	NR
GWA-3	Bailer	5.21	43	21.8	16.0	NR
GWC-1	Bailer	5.71	76	21.3	20.0	NR
GWC-2	Bailer	6.03	23	21.0	9.9	NR
GWC-3	Bailer	5.72	18	22.6	3.2	NR
GWC-3A	Bailer	5.55	26	22.2	16.8	NR
GWC-4	Bailer	5.58	33	22.4	18.0	NR
GWC-4A	Sub. Pump	6.27	68	22.7	36.0	NR
GWC-5	Bailer	5.46	25	20.6	26.0	NR
GWC-6	Bailer	5.73	52	18.5	25.0	NR
GWC-7	Bailer	5.30	55	18.5	39.0	NR
GWC-8	Bailer	5.70	38	21.2	4.3	NR
GWC-8A	Bailer	6.03	148	22.5	24.0	0.0
GWC-8R	Sub. Pump	6.05	182	22.6	27.9	0.0
GWC-9	Bailer	5.05	90	19.8	21.0	NR
GWC-10	Bailer	5.09	21	18.6	22.0	NR
GWC-10A	Bailer	5.11	48	18.6	9.8	NR
GWC-11	Bailer	5.17	25	18.4	40.0	NR
GWC-12	Bailer	5.12	19	19.2	19.0	NR
GWC-12A	Bailer	5.83	21	19.3	11.0	NR
GWC-13	Bailer	5.76	60	18.6	13.0	NR
GWC-14	Bailer	5.65	36	22.0	34.0	NR
GWC-14A	Bailer	6.26	238	23.7	5.8	0.0
GWC-14R	Bailer	6.15	210	23.4	0.0	0.0

**Notes:** Groundwater samples collected June 22-26, 2020.

**Acronyms:** °C = Degrees Celsius  
µS/cm = microSiemens/centimeter  
NTU = Nephelometric Turbidity Units

NR = Not required  
%v/v = percent by volume  
S.U. = Standard Units

**Table 1**  
**Summary of Water Quality Parameters**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Well ID	Sample Method	pH (S.U.)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Temperature ( $^{\circ}\text{C}$ )	Turbidity (NTU)	Methane in Headspace (%v/v)
GWC-15	Purged Dry - Refer to Surrogate AMW-1					0.0
GWC-16A	Purged Dry - Refer to Surrogate AMW-2					0.0
GWC-17	Bailer	5.23	74	18.4	8.4	0.0
GWC-18	Bailer	5.46	128	18.7	12.0	0.0
GWC-19R	Bailer	5.35	96	19.5	6.7	0.0
GWC-22	Bailer	5.38	33	18.3	3.2	NR
GWC-23	Bailer	6.17	26	23.0	2.6	NR
GWC-23A	Bailer	6.05	16	23.8	6.3	NR
GWC-24	Bailer	5.87	45	23.6	14.9	0.0
AMW-1	Sub. Pump	5.26	94	23.7	0.0	0.0
AMW-2	Sub. Pump	5.86	117	22.8	0.0	0.0
AMW-4	Bailer	5.37	90	19.3	**	0.0
AMW-5	Bailer	5.59	85	18.3	**	0.0
AMW-9	Bailer	5.62	23	22.8	8.1	0.0
AMW-12	Bailer	5.82	40	16.6	**	0.0
AMW-12R	Bailer	6.03	72	17.2	**	0.0
AMW-13	Bailer	5.45	42	18.4	6.1	0.0
AMW-14	Bailer	5.70	89	17.6	**	0.0

**Notes:** Groundwater samples collected June 22-26, 2020.

\*\* = Metals not required.

**Acronyms:**  $^{\circ}\text{C}$  = Degrees Celsius

$\mu\text{S}/\text{cm}$  = microSiemens/centimeter

NTU = Nephelometric Turbidity Units

NR = Not required

%v/v = percent by volume

S.U. = Standard Units

**Table 2**  
**Summary of Groundwater Elevation Data**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
<b>PHASE I WELLS</b>				
PH1-GWA-1	48.66	1176.37	33.84	1142.53
PH1-GWA-1A	108.00	1176.35	33.46	1142.89
PH1-GWA-2	53.60	1183.40	31.92	1151.48
PH1-GWA-3A	205.00	1187.16	31.95	1155.21
PH1-GWA-4	57.00	1191.14	31.01	1160.13
PH1-GWB-1	53.80	1179.10	38.76	1140.34
PH1-GWB-2	42.22	1155.04	21.53	1133.51
PH1-GWC-1	23.79	1074.66	9.62	1065.04
PH1-GWC-2	127.61	1103.93	21.38	1082.55
PH1-GWC-3	23.42	1096.96	11.78	1085.18
PH1-GWC-3A	55.42	1096.28	10.75	1085.53
PH1-GWC-4	33.71	1124.26	25.81	1098.45
GWC-1	38.80	1102.25	26.92	1075.33
AMW-8	50.40	1186.23	35.05	1151.18
AMW-9	41.69	1162.64	28.02	1134.62
AMW-10	56.81	1180.73	40.50	1140.23
<b>PHASE II - IV WELLS</b>				
GWA-1	62.85	1187.70	52.50	1135.20
GWA-1A	141.00	1187.49	50.86	1136.63
GWA-2	52.18	1137.30	34.55	1102.75
GWA-3	48.86	1154.53	34.90	1119.63
GWC-2	55.61	1103.64	44.03	1059.61
GWC-3	39.71	1092.39	31.36	1061.03
GWC-3A	68.95	1094.67	28.94	1065.73
GWC-4	49.81	1132.82	38.82	1094.00
GWC-4A	89.23	1132.39	36.24	1096.15
GWC-5	49.91	1084.55	45.67	1038.88
GWC-6	34.52	1064.01	25.11	1038.90
GWC-7	54.21	1093.44	38.92	1054.52
GWC-8	27.53	1095.63	17.44	1078.19
GWC-8A	46.71	1095.44	16.32	1079.12
GWC-8R	94.67	1098.40	18.80	1079.60
GWC-9	60.50	1093.58	42.66	1050.92
GWC-10	37.51	1068.56	19.76	1048.80

**Notes:** Depths to water measured on June 22, 2020.

**Acronyms:** ft BTOC = feet below top of casing  
ft MSL = feet Mean Sea Level

**Table 2 (Continued)**  
**Summary of Groundwater Elevation Data**  
**Forsyth County - Hightower Rd MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
<b>PHASE II - IV WELLS</b>				
GWC-10A	54.30	1066.45	19.70	1046.75
GWC-11	46.80	1054.08	30.79	1023.29
GWC-12	40.06	1038.06	26.80	1011.26
GWC-12A	49.44	1038.09	28.09	1010.00
GWC-13	44.95	1090.82	28.16	1062.66
GWC-14	28.37	1089.49	19.94	1069.55
GWC-14A	64.75	1089.32	19.57	1069.75
GWC-14R	93.61	1078.60	12.04	1066.56
GWC-15	62.84	1125.68	53.67	1072.01
GWC-16A	51.05	1136.49	49.94	1086.55
GWC-17	21.59	1107.78	14.47	1093.31
GWC-18	52.70	1094.87	39.70	1055.17
GWC-19R	39.87	1105.79	26.12	1079.67
GWC-22	35.05	1079.01	20.84	1058.17
GWC-23	32.22	1079.06	15.88	1063.18
GWC-23A	61.67	1079.10	13.03	1066.07
GWC-24	44.09	1102.32	34.27	1068.05
AMW-1	180.70	1130.04	57.41	1072.63
AMW-2	150.00	1101.96	39.26	1062.70
AMW-3	28.50	1041.09	9.85	1031.24
AMW-4	18.80	1040.09	4.47	1035.62
AMW-5	23.06	1049.32	8.22	1041.10
AMW-11R	58.10	1053.63	7.80	1045.83
AMW-12	19.56	1056.85	7.24	1049.61
AMW-12R	46.43	1056.34	9.53	1046.81
AMW-13	36.18	1093.09	29.50	1063.59
AMW-14	21.70	1052.73	9.89	1042.84

**Notes:** Depths to water measured June 22, 2020.

**Acronyms:** ft BTOC = feet below top of casing  
ft MSL = feet Mean Sea Level

**Table 3**  
**Summary of Appendix I/II Organic Compound Detections**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-benzene (µg/L)	Chloroethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	810*	5	110*	4.6*	70	5	5	2
<b>PHASE I WELLS</b>								
PH1-GWA-1	--	--	--	--	4.0	--	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	--
PH1-GWA-2	--	--	--	--	42	--	2.4	--
PH1-GWA-3A	--	--	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--	--	--
PH1-GWB-1	--	--	--	--	--	--	--	--
PH1-GWB-2	--	--	--	--	--	--	--	--
PH1-GWC-1	--	--	--	--	--	--	--	--
PH1-GWC-2	3.1	--	--	--	6.0	4.6	2.1	--
PH1-GWC-3	2.9	--	--	--	20	<b>9.0</b>	<b>7.1</b>	--
PH1-GWC-3A	--	--	--	--	14	--	2.8	--
PH1-GWC-4	--	--	--	--	--	--	--	--
GWC-1	--	--	--	--	--	--	--	--
AMW-9	--	--	--	--	--	--	--	--
<b>PHASE II - IV WELLS</b>								
GWA-1	--	--	--	--	--	--	--	--
GWA-1A	--	--	--	--	--	--	--	--
GWA-2	--	--	--	--	--	--	--	--
GWA-3	--	--	--	--	--	--	--	--
GWC-2	--	--	--	--	--	--	--	--
GWC-3	--	--	--	--	--	--	--	--
GWC-3A	--	--	--	--	--	--	--	--
GWC-4	--	--	--	--	--	--	--	--
GWC-4A	--	--	--	--	--	--	--	--
GWC-5	--	--	--	--	--	--	--	--
GWC-6	--	--	--	--	--	--	--	--
GWC-7	--	--	--	--	--	--	--	--
GWC-8	--	--	--	--	--	--	--	--
GWC-8A	2.4	--	--	--	23	--	--	--
GWC-8R	13	--	--	--	27	--	--	--

**Notes:** Groundwater samples collected June 22-26, 2020.

-- = Below laboratory reporting limit.

Shaded and bold values indicate concentrations above GWPS.

\* No MCL exists and the GWPS is the EPA Region IX PRG.

Underlined concentrations are considered unverified.

**Acronyms:** µg/L = micrograms per liter

1,1-DCA = 1,1-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene;

PCE = Tetrachloroethene; TCE = Trichloroethene

GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL), or the EPA Region IX Preliminary Remediation Goals (PRG) if an MCL is not established.

**Table 3 (continued)**  
**Summary of Appendix I/II Organic Compound Detections**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chloro-benzene (µg/L)	Chloroethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
GWPS	810*	5	110*	4.6*	70	5	5	2
<b>PHASE II - IV WELLS</b>								
GWC-9	--	--	--	--	--	--	--	--
GWC-10	--	--	--	--	--	--	--	--
GWC-10A	--	--	--	--	--	--	--	--
GWC-11	--	--	--	--	--	--	--	--
GWC-12	--	--	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--	--	--
GWC-14	--	--	--	--	--	--	--	--
GWC-14A	10	2.5	<u>12</u>	3.3	62	--	--	<b>7.5</b>
GWC-14R	18	--	--	--	26	--	4.3	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1							
GWC-16A	Purged Dry; Refer to Surrogate AMW-2							
GWC-17	--	--	--	--	--	--	--	--
GWC-18	--	--	--	--	10	<b>5.7</b>	--	--
GWC-19R	--	--	--	--	7.2	--	--	--
GWC-22	--	--	--	--	--	--	--	--
GWC-23	--	--	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--	--	--
GWC-24	--	--	--	--	3.0	--	--	--
AMW-1	39	<u>3.6</u>	--	--	<b>110</b>	<b>48</b>	<b>90</b>	--
AMW-2	--	--	--	--	2.2	--	--	--
AMW-4	--	--	--	--	16	4.3	2.5	--
AMW-5	--	--	--	--	<u>2.1</u>	--	--	--
AMW-12	--	--	--	--	--	3.3	--	--
AMW-12R	3.2	--	--	--	2.5	<b>13</b>	2.8	--
AMW-13	--	--	--	--	--	--	--	--
AMW-14	--	--	--	--	2.7	--	--	--

**Notes:** Groundwater samples collected June 22-26, 2020.  
 -- = Below laboratory reporting limit.  
 Shaded and bold values indicate concentrations above GWPS.  
 \* No MCL exists and the GWPS is the EPA Region IX PRG.  
 Underlined concentrations are considered unverified.

**Acronyms:** µg/L = micrograms per liter  
 1,1-DCA = 1,1-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene;  
 PCE = Tetrachloroethene; TCE = Trichloroethene  
 GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL), or the EPA Region IX Preliminary Remediation Goals (PRG) if an MCL is not established.

**Table 4**  
**Summary of Appendix I/II Metal Detections**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	2	0.1	0.73*	1.3	0.1	5**
<b>PHASE I WELLS</b>						
PH1-GWA-1	0.0277	--	0.0766	--	--	--
PH1-GWA-1A	0.0217	--	--	--	--	--
PH1-GWA-2	0.0646	--	--	--	--	--
PH1-GWA-3A	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--
PH1-GWB-1	0.0793	--	--	--	--	0.0268
PH1-GWB-2	--	--	--	--	--	0.0254
PH1-GWC-1	0.0428	--	--	--	--	<u>0.0325</u>
PH1-GWC-2	0.0336	0.0272	--	--	--	--
PH1-GWC-3	0.0236	--	--	--	--	--
PH1-GWC-3A	0.0239	--	--	--	--	<u>0.0369</u>
PH1-GWC-4	0.0252	--	--	--	--	--
GWC-1	0.0953	--	--	--	--	0.0554
AMW-9	--	--	--	<u>0.0209</u>	--	<u>0.0490</u>
<b>PHASE II - IV WELLS</b>						
GWA-1	0.0223	--	--	--	--	0.0307
GWA-1A	0.0303	--	--	--	--	--
GWA-2	0.0200	--	--	--	--	--
GWA-3	--	--	--	--	--	0.0203
GWC-2	0.0275	--	--	--	--	0.0278
GWC-3	--	--	--	--	--	--
GWC-3A	0.0371	--	--	--	--	0.0331
GWC-4	0.0256	--	--	--	--	--
GWC-4A	0.0299	--	--	--	--	--
GWC-5	--	--	--	--	--	--
GWC-6	--	--	--	--	--	--
GWC-7	0.0364	--	--	--	--	--
GWC-8	0.0524	--	--	--	--	--
GWC-8A	0.0439	--	--	--	--	--

**Notes:** Groundwater samples collected June 22-26, 2020.

-- = Below laboratory reporting limit.

An underlined value is unverified.

\* No MCL exists EPA Region IX PRG referenced as GWPS.

\*\* Secondary EPA MCL.

Georgia MCL is used for nickel per 391-3-5-.18(1)(a).

Treatment Technique is used for copper.

**Acronyms:** mg/L = milligrams per liter

GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL), or the EPA Region IX Preliminary Remediation Goals (PRG) if an MCL is not established.

**Table 4 (continued)**  
**Summary of Appendix I/II Metal Detections**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	2	0.1	0.73*	1.3	0.1	5**
<b>PHASE II - IV WELLS</b>						
GWC-9	0.0785	--	--	--	--	0.0459
GWC-10	--	--	--	--	--	0.0279
GWC-10A	0.0296	--	--	--	--	--
GWC-11	0.0259	--	--	--	--	0.0400
GWC-12	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--
GWC-14	--	--	0.0951	--	--	0.0253
GWC-14A	0.171	--	0.301	--	<u>0.0222</u>	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1					
GWC-16A	Purged Dry; Refer to Surrogate AMW-2					
GWC-17	0.0309	--	--	--	--	--
GWC-18	0.168	--	--	--	--	--
GWC-19R	0.0830	--	--	--	--	--
GWC-22	0.0221	--	--	--	--	--
GWC-23	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--
GWC-24	0.0258	--	--	--	--	--
AMW-1	0.0627	--	--	--	--	--
AMW-2	0.0236	--	--	--	--	--
AMW-13	--	--	--	--	--	--

**Notes:** Groundwater samples collected June 22-26, 2020.

-- = Below laboratory reporting limit.

An underlined value is unverified.

\* No MCL exists EPA Region IX PRG referenced as GWPS.

\*\* Secondary EPA MCL.

Georgia MCL is used for nickel per 391-3-5-.18(1)(a).

Treatment Technique is used for copper.

**Acronyms:** mg/L = milligrams per liter

GWPS = Groundwater Protection Standard is the EPA Maximum Contaminant Level (MCL), or the EPA Region IX Preliminary Remediation Goals (PRG) if an MCL is not established.





**Table 5  
 Calculated Groundwater Flow Rate  
 June 2020 Sampling Event**

Equation

$$V = \frac{(k)(i)}{(ne)}$$

where: V = groundwater velocity  
 k = hydraulic conductivity  
 i = hydraulic gradient  
 ne = effective porosity

Assumptions

Reference

( k ) = the site average hydraulic conductivity (average k for GWA-2, GWC-3, GWC-4, & GWC-10)	=	1.0 ft/day	(Ref. 1)
i <sub>1</sub> = dh/dl from PH1-GWA-2 to GWC-1	=	0.085 ft/ft	(Figure 1)
i <sub>2</sub> = dh/dl from GWA-3 to GWC-2	=	0.117 ft/ft	
i <sub>3</sub> = dh/dl from GWA-2 to GWC-23	=	0.099 ft/ft	
i <sub>4</sub> = dh/dl from GWC-8 to AMW-11R	=	0.110 ft/ft	
( i ) = Arithmetic Average (i <sub>1</sub> , i <sub>2</sub> , i <sub>3</sub> , i <sub>4</sub> )	=	0.103 ft/ft	
( ne )	=	20%	(Ref. 1)

Calculation

$$V = \frac{(1.0 \text{ ft/day})(0.103 \text{ ft/ft})}{20\%}$$

**V = 0.51 ft/day  
 187 ft/year**

**Notes:** ft = feet

(1) October 8, 2004 *Assessment of Corrective Measures Report* hydraulic conductivity range is 0.0295 to 1.21 feet/day.

**Table 6**  
**Summary of Surface Water Detections & Field Parameters**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Location	cis-1,2-DCE (µg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Barium (mg/L)
SWA-1	NS	1.40	–	2.15	0.0336
SWA-2	NS	1.33	–	2.19	0.0309
SWC-1	NS	5.30	11.7	4.81	–
SWC-2	NS	1.44	–	2.13	0.0376
SWC-3	NS	1.35	11.7	2.12	0.0449
SWC-4	–	1.13	–	1.94	0.0277
SWC-5	NS	5.21	20.8	12.0	0.0418
SWC-6	3.5	4.88	18.5	17.3	0.0325
SWC-7	NS	4.86	11.7	3.11	--
SWC-8	NS	10.8	36.7	1.25	--

ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SWA-1	5.93	39	26.3	8.4	4.1
SWA-2	6.47	44	20.2	270	5.1
SWC-1	6.39	64	24.4	19.5	5.0
SWC-1^	6.23	84	21.0	156	6.2
SWC-2	6.48	46	20.4	258	4.3
SWC-3	6.49	51	20.7	274	5.1
SWC-4	6.65	39	20.0	126	5.2
SWC-4A^	6.09	84	20.4	95	6.8
SWC-4B^	5.92	48	20.3	38	8.2
SWC-5	6.50	164	24.1	8.5	4.5
SWC-6	6.21	124	24.6	18	5.8
SWC-7	6.05	39	24.0	3.5	3.6
SWC-8	6.35	43	21.1	79	5.4
SWC-9	Dry				

**Notes:** Surface water samples were collected on June 25, 2020 & August 26, 2020^.

^SWC-1, SWC-4, SWC-4A, SWC-4B samples collected August 26, 2020.

-- = Below laboratory reporting limit.

Surface water samples are grab samples.

No VOCs detected in SWC-1, SWC-4, SWC-4A, SWC-4B samples.

**Acronyms:** °C = Degrees Celsius

cis-1,2-DCE = cis-1,2-Dichloroethene

mg/L = milligrams per liter

µS/cm = microSiemens/centimeter

NTU = Nephelometric Turbidity Units

NS = not sampled/not required

S.U. = Standard Units

**Table 7**  
**Summary of Statistically Significant Increases**  
**Forsyth County - Hightower Road MSWLF**  
**June 2020 Sampling Event**

Well ID	Appendix I VOCs							Appendix I Metals		
	1,1-DCA	Benzene	Chloro-ethane	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Total Barium	Total Cobalt	Total Nickel
<b>PHASE I DOWNGRADIENT NETWORK WELLS*</b>										
PH1-GWA-1				X					X	
PH1-GWA-2				X		X		X		
PH1-GWB-1								X		
PH1-GWC-1								X		
PH1-GWC-2	X			X	X					
PH1-GWC-3	X			X	X	X				
PH1-GWC-3A				X		X				
GWC-1								X		
<b>PHASE II - IV DOWNGRADIENT NETWORK WELLS*</b>										
GWA-3										
GWC-3A										
GWC-4A										
GWC-7										
GWC-8										
GWC-8A	X			X				X		
GWC-8R	X			X						
GWC-9								X		
GWC-10										
GWC-14									X	
GWC-14A	X	X	X	X			X	X	X	X
GWC-14R	X			X		X				
GWC-15	X			X	X	X		X		
GWC-16A				X						
GWC-17										
GWC-18				X	X			X		
GWC-19R				X				X		
GWC-24				X						

**Notes:** X = Statistically Significant Increase indicated; AMW series wells not statistically evaluated.

Shaded cells indicate a concentration above a Groundwater Protection Standard (GWPS).

\* Phase I wells PH1-GWA-3A and PH1-GWA-4 are historically unimpacted and used for upgradient comparison; Phase II-IV wells GWA-1 and GWA-2 are used for upgradient comparison.

**Acronyms:** 1,1-DCA = 1,1-Dichloroethane      PCE = Tetrachloroethene  
cis-1,2-DCE = cis-1,2-Dichloroethene      TCE = Trichloroethene

## FIGURES



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PROJECT:  
**FORSYTH COUNTY  
 HIGHTOWER ROAD  
 LANDFILL**

FORSYTH COUNTY, GA

FORSYTH COUNTY



FORSYTH COUNTY GOVERNMENT  
 110 E. MAIN STREET, SUITE 210  
 CUMMING, GA 30040  
 770-781-2101

REVISIONS

NO.	DATE	DESCRIPTION

Drawn by: JB Checked by: CA

PROJECT NUMBER:

G020-113

August 2020

POTENTIOMETRIC  
 SURFACE MAP  
 JUNE 2020

FIGURE 1

Summary of Groundwater Elevation Data  
 Forsyth County - Hightower Road MSWLF  
 June 2020 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
<b>PHASE I WELLS</b>				
PH1-GWA-1	48.66	1176.37	33.84	1142.53
PH1-GWA-1A	108.00	1176.35	33.46	1142.89
PH1-GWA-2	53.60	1183.40	31.92	1151.48
PH1-GWA-3A	205.00	1187.16	31.95	1155.21
PH1-GWA-4	57.00	1191.14	31.01	1160.13
PH1-GWB-1	53.80	1179.10	38.76	1140.34
PH1-GWB-2	42.22	1155.04	21.53	1133.51
PH1-GWC-1	23.79	1074.66	9.62	1065.04
PH1-GWC-2	127.61	1103.93	21.38	1082.55
PH1-GWC-3	23.42	1096.96	11.78	1085.18
PH1-GWC-3A	55.42	1096.28	10.75	1085.53
PH1-GWC-4	33.71	1124.26	25.81	1098.45
GWC-1	38.80	1102.25	26.92	1075.33
AMW-8	50.40	1186.23	35.05	1151.18
AMW-9	41.69	1162.64	28.02	1134.62
AMW-10	56.81	1180.73	40.50	1140.23
<b>PHASE II - IV WELLS</b>				
GWA-1	62.85	1187.70	52.50	1135.20
GWA-1A	141.00	1187.49	50.86	1136.63
GWA-2	52.18	1137.30	34.55	1102.75
GWA-3	48.86	1154.53	34.90	1119.63
GWA-3A	55.61	1103.64	44.03	1059.61
GWC-3	39.71	1092.39	31.36	1061.03
GWC-3A	68.95	1094.67	28.94	1065.73
GWC-4	49.81	1132.82	38.82	1094.00
GWC-4A	89.23	1132.39	36.24	1096.15
GWC-5	49.91	1084.55	45.67	1038.88
GWC-6	34.52	1064.01	25.11	1038.90
GWC-7	54.21	1093.44	38.92	1054.52
GWC-8	27.53	1095.63	17.44	1078.19
GWC-8A	46.71	1095.44	16.32	1079.12
GWC-8R	94.67	1098.40	18.80	1079.60
GWC-9	60.50	1093.58	42.66	1050.92
GWC-10	37.51	1068.56	19.76	1048.80

Table 2 (Continued)  
 Summary of Groundwater Elevation Data  
 Forsyth County - Hightower Rd MSWLF  
 June 2020 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
<b>PHASE II - IV WELLS</b>				
GWC-10A	54.30	1066.45	19.70	1046.75
GWC-11	46.80	1054.08	30.79	1023.29
GWC-12	40.06	1038.06	28.80	1011.26
GWC-12A	49.44	1038.09	28.09	1010.00
GWC-13	44.95	1090.82	28.16	1062.66
GWC-14	28.37	1089.49	19.94	1069.55
GWC-14A	64.75	1089.32	19.57	1069.75
GWC-14R	93.61	1078.60	12.04	1066.56
GWC-15	62.84	1125.68	53.67	1072.01
GWC-16A	51.05	1136.49	49.94	1086.55
GWC-17	21.59	1107.78	14.47	1093.31
GWC-18	52.70	1094.87	39.70	1055.17
GWC-19R	39.87	1105.79	26.12	1079.67
GWC-22	35.05	1079.01	20.84	1058.17
GWC-23	32.22	1079.06	15.88	1063.18
GWC-23A	61.67	1079.10	13.03	1066.07
GWC-24	44.09	1102.32	34.27	1068.05
AMW-1	180.70	1130.04	57.41	1072.63
AMW-2	150.00	1101.96	39.26	1062.70
AMW-3	28.50	1041.09	9.85	1031.24
AMW-4	18.80	1040.09	4.47	1035.62
AMW-5	23.06	1049.32	8.22	1041.10
AMW-11R	58.10	1053.63	7.80	1045.83
AMW-12	19.56	1056.85	7.24	1049.61
AMW-12R	46.43	1056.34	9.53	1046.81
AMW-13	36.18	1093.09	29.50	1063.59
AMW-14	21.70	1052.73	9.89	1042.84

Notes: Depths to water measured June 22, 2020.  
 Acronyms: ft BTOC = feet below top of casing  
 ft MSL = feet Mean Sea Level

Notes: Depths to water measured on June 22, 2020.  
 Acronyms: ft BTOC = feet below top of casing  
 ft MSL = feet Mean Sea Level

LEGEND

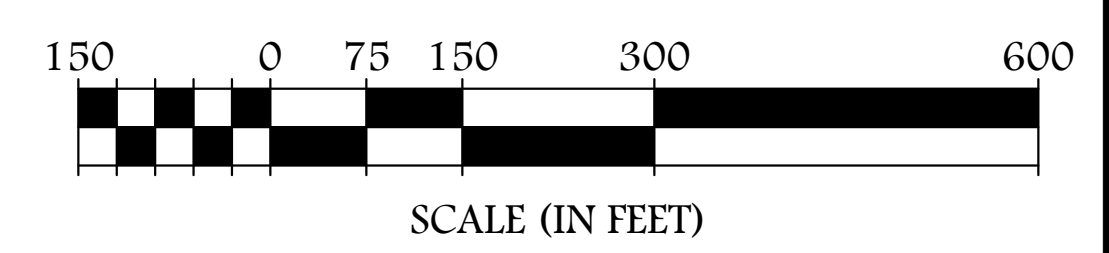
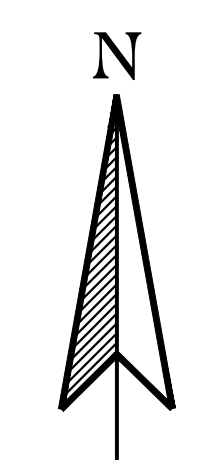
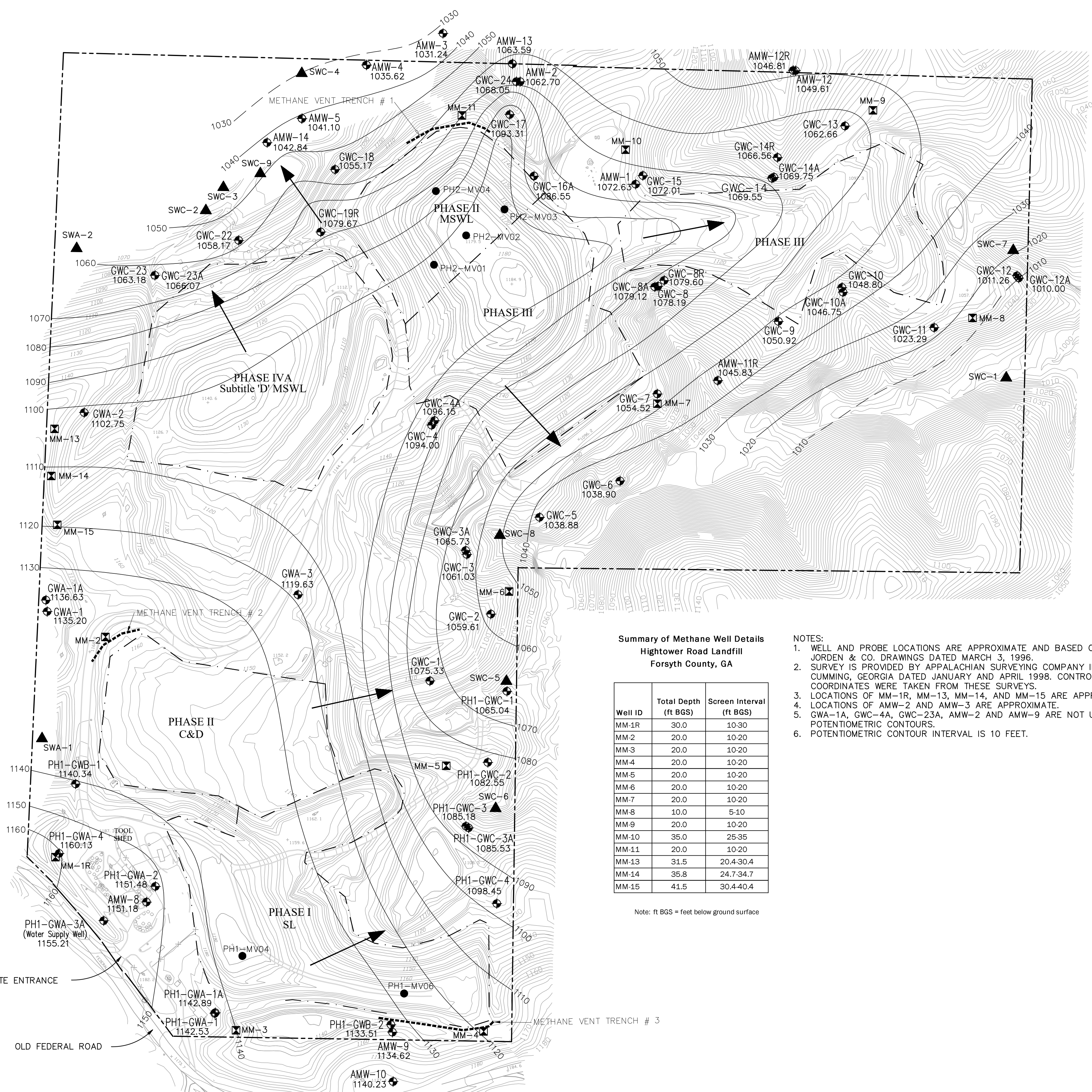
- APPROXIMATE PHASE BOUNDARY
- 1140 --- TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- ROAD
- GWA-1 1130.03 GROUNDWATER MONITORING WELL ELEVATION IN FEET MEAN SEA LEVEL
- ▲ SWA-4 SURFACE WATER SAMPLE LOCATIONS
- ⊠ MM-1 METHANE MONITORING POINT
- PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
- 1080 --- GROUNDWATER POTENTIOMETRIC CONTOUR (ELEVATION IN FEET MEAN SEA LEVEL)
- GROUNDWATER FLOW DIRECTION
- METHANE VENT TRENCH

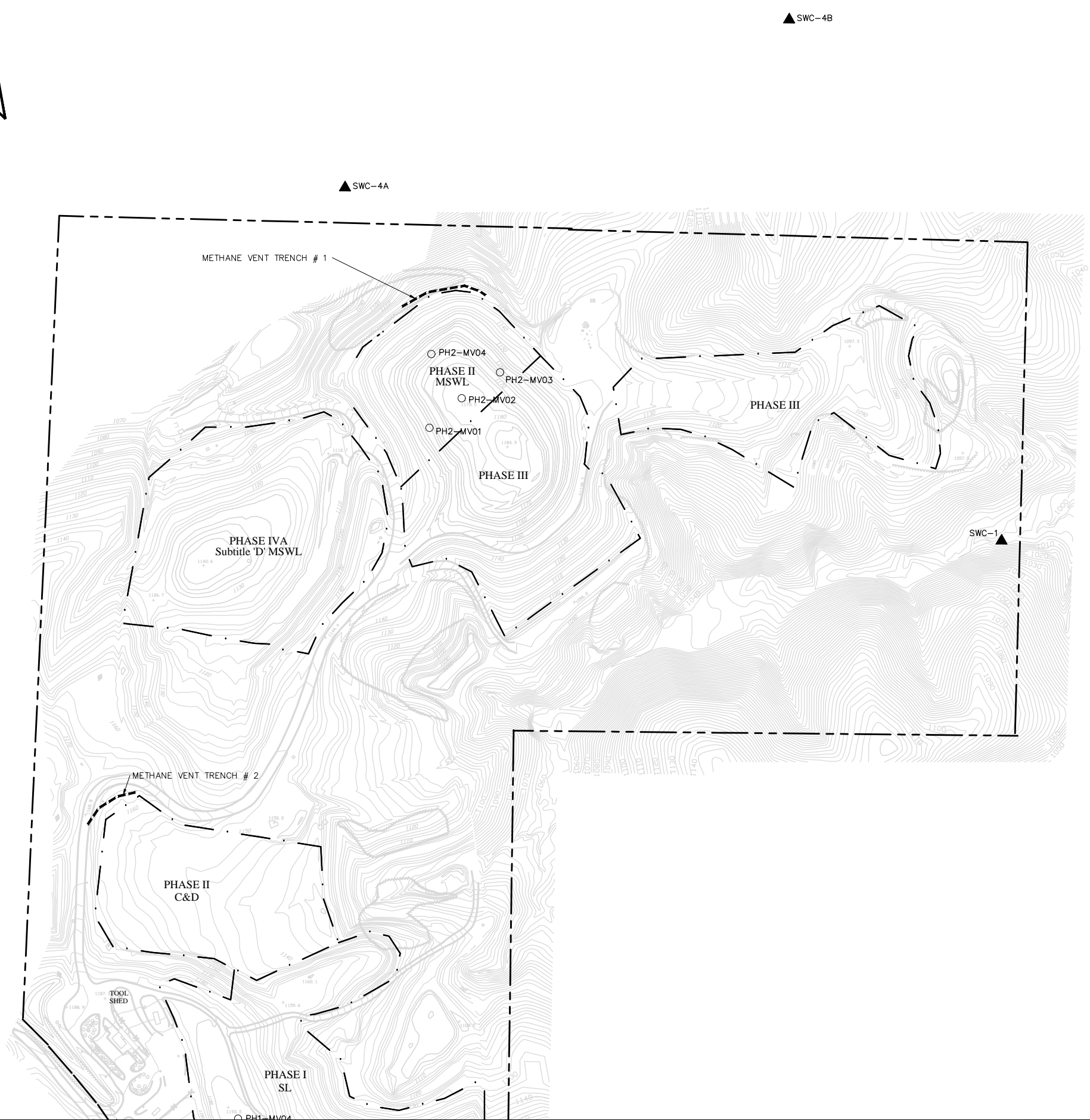
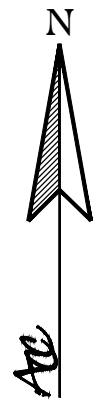
Summary of Methane Well Details  
 Hightower Road Landfill  
 Forsyth County, GA

Well ID	Total Depth (ft BGS)	Screen Interval (ft BGS)
MM-1R	30.0	10-30
MM-2	20.0	10-20
MM-3	20.0	10-20
MM-4	20.0	10-20
MM-5	20.0	10-20
MM-6	20.0	10-20
MM-7	20.0	10-20
MM-8	10.0	5-10
MM-9	20.0	10-20
MM-10	35.0	25-35
MM-11	20.0	10-20
MM-13	31.5	20.4-30.4
MM-14	35.8	24.7-34.7
MM-15	41.5	30.4-40.4

Note: ft BGS = feet below ground surface

- NOTES:
- WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
  - SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
  - LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE.
  - LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
  - GWA-1A, GWC-4A, GWC-23A, AMW-2 AND AMW-9 ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
  - POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.





**LEGEND**

	APPROXIMATE PHASE BOUNDARY
	TOPOGRAPHIC CONTOUR
	PROPERTY LINE
	TREELINE
	ROAD
	SWA-4A SURFACE WATER LOCATION (VERIFICATION)
	PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
	METHANE VENT TRENCH

- NOTES:**
1. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
  2. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
  3. LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE.
  4. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.

**ACC**  
**ATLANTIC COAST CONSULTING, INC.**  
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**PROJECT:**  
**FORSYTH COUNTY HIGHTOWER ROAD LANDFILL**

FORSYTH COUNTY, GA

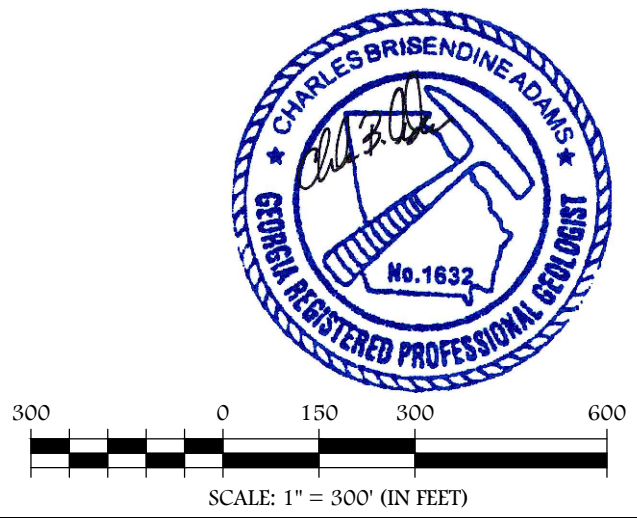
**FORSYTH COUNTY**  
  
 FORSYTH COUNTY GOVERNMENT  
 110 E. MAIN STREET, SUITE 210  
 CUMMING, GA 30040  
 770-781-2100

Drawn by: MM Checked by: CA

**PROJECT NUMBER:**  
**G020-113**  
 October 2019

**ADDITIONAL SURFACE WATER SAMPLE LOCATION MAP**

FIGURE **2**



## ATTACHMENTS

**ATTACHMENT A**  
**LABORATORY ANALYTICAL RESULTS**





**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

July 06, 2020

Charles Adams  
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy  
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams:

Order No: 2006U09

Analytical Environmental Services, Inc. received 107 samples on 6/26/2020 11:05:00 AM  
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated  
Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the  
analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical  
Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective  
07/01/19-06/30/20.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective  
through 06/30/20 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos),  
Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct  
Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling  
Project Manager



**CHAIN OF CUSTODY**

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy, Ste 100 Roswell, GA 30076		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers				
PHONE: Charles Adams 770-712-9785		EMAIL: charles.adams@atlcc.net		Appendix II VOC	App. I VOC	App. I Metals	Appendix II BNA	Cyanide	COD	TOC	Surface Water Metals									
SAMPLED BY: <u>H. Auld</u>		SIGNATURE: <u>[Signature]</u>		SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS	
#	SAMPLE ID	DATE	TIME	H	H				N	I	O	S	H	N						
1	PH1-GWC-2	6-22-20	1340	✓		GW	✓											3		
2	PH1-GWA-1	6-22-20	1500/1825	✓		GW	✓											2		
3	PH1-GWA-1A	6-22-20	1515	✓		GW	✓	✓										3		
4	GWA-1	6-23-20	0930	✓		GW	✓											2		
5	GWA-1A	6-23-20	1005	✓		GW	✓	✓										3		
6	GWC-4	6-23-20	1105	✓		GW	✓											2		
7	GWC-4A	6-23-20	1220	✓		GW	✓											2		
8	GWC-14R	6-23-20	1405	✓		GW	✓				✓							4		
9	GWC-8R	6-23-20	1535	✓		GW	✓				✓							4		
10	AMW-2	6-23-20	1700	✓		GW	✓				✓							3		
11	PH1-GWA-1	6-23-20	0900	✓		GW					✓							1		
12	GWA-1	6-24-20	0915	✓		GW					✓							1		
13	GWC-4	6-24	0925	✓		GW					✓							1		
14	GWC-4A	6-24	0930	✓		GW					✓							1		

RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>6-26-20/1005</u>		RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>6/26 11:05</u>		PROJECT INFORMATION				RECEIPT	
1.		2.		PROJECT NAME: Forsyth County - Hightower Road Landfill				Total # of Containers	
2.		3.		PROJECT #:				Turnaround Time (TAT) Request	
3.				SITE ADDRESS:				<input checked="" type="checkbox"/> Standard	
				SEND REPORT TO: Charles Adams				<input type="checkbox"/> 2 Business Day Rush	
				INVOICE TO (IF DIFFERENT FROM ABOVE):				<input type="checkbox"/> Next Business Day Rush	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT: / / VIA:				<input type="checkbox"/> Same-Day Rush (auth req.)	
		IN: / / VIA:		Client FedEx UPS US mail courier				<input type="checkbox"/> Other _____	
		other: _____		QUOTE #: _____ PO#: _____				STATE PROGRAM (if any): _____	
								E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
								DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IVO <input type="radio"/>	

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**CHAIN OF CUSTODY**

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy, Ste 100 Roswell, GA 30076		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers			
PHONE: Charles Adams 770-712-9785		EMAIL: charles.adams@atlcc.net		Appendix II VOC	App. I VOC	App. I Metals	Appendix II BNA	Cyanide	COD	TOC	Surface Water Metals								
SAMPLED BY: <u>H. Auld</u>		SIGNATURE: <u>[Signature]</u>		PRESERVATION (see codes)										REMARKS					
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H	H	N	I	O	S	H				N		
1	PHI-GWB-1	6-24	1005	✓		GW		✓										2	
2	GWC-3	6-24	1030	✓		GW		✓										2	
3	GWC-24	6-24	1130	✓		GW	✓											2	
4	GWL-14	6-24	1150	✓		GW		✓										2	
5	GWC-3A	6-24	1220	✓		GW		✓										2	
6	GWC-23A	6-24	1310	✓		GW		✓	✓									3	
7	GWC-23	6-24	1335	✓		GW		✓	✓									3	
8	PHI-GWA-2	6-24	1410	✓		GW	✓											2	
9	Field Blank 2	6-24	1415	✓		W		✓	✓									3	
10	GWC-14A	6-24	1525	✓		GW	✓		✓									3	
11	PHI-GWB-2	6-24	1600	✓		GW		✓										2	
12	AMW-9	6-24	1625	✓		GW	✓											2	
13	PHI-GWA-4	6-24	1705	✓		GW		✓										2	
14	PHI-GWB-1	6-25	0905	✓		GW			✓									1	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT	
1. <u>[Signature]</u>		6-26-20/1105		1. <u>[Signature]</u>		6/26 11:05		PROJECT NAME: Forsyth County - Hightower Road Landfill										Total # of Containers	
2.				2.				PROJECT #:										Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS:										<input type="checkbox"/> Standard	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		OUT: / / VIA:		SEND REPORT TO: Charles Adams										<input type="checkbox"/> 2 Business Day Rush	
				IN: / / VIA:		Client FedEx UPS US mail courier		INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Next Business Day Rush	
				other: _____				QUOTE #: _____ PO#: _____										<input type="checkbox"/> Same-Day Rush (auth req.)	
																		<input type="checkbox"/> Other _____	
																		STATE PROGRAM (if any): _____	
																		E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
																		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	

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**CHAIN OF CUSTODY**

COMPANY: Atlantic Coast Consulting, Inc.		ADDRESS: 1150 Northmeadow Pkwy, Ste 100 Roswell, GA 30076				ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.		Number of Containers																		
PHONE: Charles Adams 770-712-9785		EMAIL: charles.adams@atlcc.net				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Appendix I VOC</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">App. I VOC</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">App. I Metals</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Appendix II BNA</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Cyanide</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">COD</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TOC</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Surface Water Metals</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													Appendix I VOC	App. I VOC	App. I Metals	Appendix II BNA	Cyanide	COD	TOC	Surface Water Metals										
Appendix I VOC	App. I VOC	App. I Metals	Appendix II BNA	Cyanide	COD	TOC	Surface Water Metals																													
SAMPLED BY:		SIGNATURE:				PRESERVATION (see codes)										REMARKS																				
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	H	H	N	I	O	S	H	N																						
1	GWC-18	6-24-20	0930	X		GW			✓																											
2	GWC-22	6-24-20	0940	X		GW			✓																											
3	GWC-19R	6-24-20	0945	X		GW			✓																											
4	GWC-8	6-24-20	0950	X		GW			✓																											
5	GWC-8A	6-24-20	0955	X		GW			✓																											
6	GWC-5	6-24-20	1005	X		GW			✓																											
7	GWC-6	6-24-20	1050	X		GW	✓																													
8	GWC-7	6-24-20	1110	X		GW	✓																													
9	GWC-12	6-24-20	1230	Y		GW	✓																													
10	GWC-12A	6-24-20	1210	X		GW	✓																													
11	Field Blank-1	6-24-20	1235	X		W	✓	✓																												
12	GWC-10	6-24-20	1255	X		GW	✓																													
13	GWC-10A	6-24-20	1325	X		GW	✓																													
14	GWC-11	6-24-20	1350	X		GW	✓																													
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT																		
1.		6-26-20/1105		1.		6/24 11:05		PROJECT NAME: Forsyth County - Hightower Road Landfill										Total # of Containers																		
2.				2.				PROJECT #:										Turnaround Time (TAT) Request																		
3.				3.				SITE ADDRESS:										<input checked="" type="checkbox"/> Standard																		
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Charles Adams										<input type="checkbox"/> 2 Business Day Rush																		
				OUT: / / VIA:				INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Next Business Day Rush																		
				IN: / / VIA:														<input type="checkbox"/> Same-Day Rush (auth req.)																		
				Client FedEx UPS US mail courier		other: _____												<input type="checkbox"/> Other _____																		
								QUOTE #: _____ PO#: _____										STATE PROGRAM (if any): _____																		
																		E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																		
																		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																		

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.







**Client:** Atlantic Coast Consulting, Inc.  
**Project:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09

**Case Narrative**

Sample Receiving Non-conformance:

Sample SWC-3 was received with one of two vials broken for TOC analysis. The laboratory proceeded by using the remaining vial intact. Furthermore, sample PH1-GWC-1 was listed as collected at 9:43AM, but on the label it was listed as collected at 9:45AM. Sample AMW-9 was listed as collected at 16:20PM, but on the label it was listed as collected at 16:25PM. Both samples were logged in using the information on the labels.

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 11:40:00 AM
<b>Lab ID:</b> 2006U09-001	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/27/2020 22:48	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/27/2020 22:48	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
2-Butanone	BRL	100		ug/L	299223	1	06/27/2020 22:48	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/27/2020 22:48	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/27/2020 22:48	JT
Acetone	BRL	100		ug/L	299223	1	06/27/2020 22:48	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/27/2020 22:48	JT
Benzene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Bromoform	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Bromomethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/27/2020 22:48	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Chloromethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Iodomethane	BRL	100		ug/L	299223	1	06/27/2020 22:48	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/27/2020 22:48	JT
Styrene	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Toluene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/27/2020 22:48	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/27/2020 22:48	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/27/2020 22:48	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 11:40:00 AM
<b>Lab ID:</b> 2006U09-001	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/27/2020 22:48	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/27/2020 22:48	JT
Surr: 4-Bromofluorobenzene	104	64-125		%REC	299223	1	06/27/2020 22:48	JT
Surr: Dibromofluoromethane	101	76.4-125		%REC	299223	1	06/27/2020 22:48	JT
Surr: Toluene-d8	100	78.3-116		%REC	299223	1	06/27/2020 22:48	JT

**Qualifiers:**

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 12:15:00 PM
<b>Lab ID:</b> 2006U09-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/27/2020 23:11	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/27/2020 23:11	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
2-Butanone	BRL	100		ug/L	299223	1	06/27/2020 23:11	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/27/2020 23:11	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/27/2020 23:11	JT
Acetone	BRL	100		ug/L	299223	1	06/27/2020 23:11	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/27/2020 23:11	JT
Benzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Bromoform	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Bromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/27/2020 23:11	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Chloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Iodomethane	BRL	100		ug/L	299223	1	06/27/2020 23:11	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/27/2020 23:11	JT
Styrene	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Toluene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/27/2020 23:11	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/27/2020 23:11	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/27/2020 23:11	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 12:15:00 PM
<b>Lab ID:</b> 2006U09-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:11	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/27/2020 23:11	JT
Surr: 4-Bromofluorobenzene	103	64-125		%REC	299223	1	06/27/2020 23:11	JT
Surr: Dibromofluoromethane	98.1	76.4-125		%REC	299223	1	06/27/2020 23:11	JT
Surr: Toluene-d8	100	78.3-116		%REC	299223	1	06/27/2020 23:11	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 12:50:00 PM
<b>Lab ID:</b> 2006U09-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/27/2020 23:34	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/27/2020 23:34	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
2-Butanone	BRL	100		ug/L	299223	1	06/27/2020 23:34	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/27/2020 23:34	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/27/2020 23:34	JT
Acetone	BRL	100		ug/L	299223	1	06/27/2020 23:34	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/27/2020 23:34	JT
Benzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Bromoform	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Bromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/27/2020 23:34	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Chloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Iodomethane	BRL	100		ug/L	299223	1	06/27/2020 23:34	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/27/2020 23:34	JT
Styrene	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Toluene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/27/2020 23:34	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/27/2020 23:34	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/27/2020 23:34	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 12:50:00 PM
<b>Lab ID:</b> 2006U09-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:34	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/27/2020 23:34	JT
Surr: 4-Bromofluorobenzene	104	64-125		%REC	299223	1	06/27/2020 23:34	JT
Surr: Dibromofluoromethane	100	76.4-125		%REC	299223	1	06/27/2020 23:34	JT
Surr: Toluene-d8	100	78.3-116		%REC	299223	1	06/27/2020 23:34	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-004

**Client Sample ID:** PH1-GWC-3  
**Collection Date:** 6/22/2020 1:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1-Dichloroethane	2.9	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 12:15	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 12:15	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 12:15	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 12:15	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 12:15	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 12:15	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 12:15	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 12:15	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 12:15	JT
cis-1,2-Dichloroethene	20	2.0		ug/L	299303	1	06/30/2020 12:15	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 1:15:00 PM
<b>Lab ID:</b> 2006U09-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 12:15	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 12:15	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 12:15	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Tetrachloroethene	9.0	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Trichloroethene	7.1	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 12:15	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 12:15	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 12:15	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 12:15	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 12:15	JT
Surr: Dibromofluoromethane	97.6	76.4-125		%REC	299303	1	06/30/2020 12:15	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 12:15	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-005

**Client Sample ID:** PH1-GWC-3A  
**Collection Date:** 6/26/2020 1:45:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 12:38	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 12:38	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 12:38	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 12:38	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 12:38	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 12:38	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 12:38	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 12:38	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 12:38	JT
cis-1,2-Dichloroethene	14	2.0		ug/L	299303	1	06/30/2020 12:38	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/26/2020 1:45:00 PM
<b>Lab ID:</b> 2006U09-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 12:38	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 12:38	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 12:38	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Trichloroethene	2.8	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 12:38	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 12:38	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 12:38	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 12:38	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 12:38	JT
Surr: Dibromofluoromethane	98.3	76.4-125		%REC	299303	1	06/30/2020 12:38	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 12:38	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-006

**Client Sample ID:** PH1-GWC-1  
**Collection Date:** 6/22/2020 2:05:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/27/2020 23:58	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/27/2020 23:58	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
2-Butanone	BRL	100		ug/L	299223	1	06/27/2020 23:58	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/27/2020 23:58	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/27/2020 23:58	JT
Acetone	BRL	100		ug/L	299223	1	06/27/2020 23:58	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/27/2020 23:58	JT
Benzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Bromoform	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Bromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/27/2020 23:58	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Chloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Iodomethane	BRL	100		ug/L	299223	1	06/27/2020 23:58	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/27/2020 23:58	JT
Styrene	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Toluene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/27/2020 23:58	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/27/2020 23:58	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/27/2020 23:58	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/27/2020 23:58	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/27/2020 23:58	JT
Surr: 4-Bromofluorobenzene	103	64-125		%REC	299223	1	06/27/2020 23:58	JT
Surr: Dibromofluoromethane	97.4	76.4-125		%REC	299223	1	06/27/2020 23:58	JT
Surr: Toluene-d8	99.8	78.3-116		%REC	299223	1	06/27/2020 23:58	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 2:45:00 PM
<b>Lab ID:</b> 2006U09-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/28/2020 00:21	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/28/2020 00:21	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
2-Butanone	BRL	100		ug/L	299223	1	06/28/2020 00:21	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/28/2020 00:21	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/28/2020 00:21	JT
Acetone	BRL	100		ug/L	299223	1	06/28/2020 00:21	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/28/2020 00:21	JT
Benzene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Bromoform	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Bromomethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/28/2020 00:21	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Chloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Iodomethane	BRL	100		ug/L	299223	1	06/28/2020 00:21	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/28/2020 00:21	JT
Styrene	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Toluene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/28/2020 00:21	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/28/2020 00:21	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/28/2020 00:21	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 2:45:00 PM
<b>Lab ID:</b> 2006U09-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/28/2020 00:21	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/28/2020 00:21	JT
Surr: 4-Bromofluorobenzene	103	64-125		%REC	299223	1	06/28/2020 00:21	JT
Surr: Dibromofluoromethane	100	76.4-125		%REC	299223	1	06/28/2020 00:21	JT
Surr: Toluene-d8	101	78.3-116		%REC	299223	1	06/28/2020 00:21	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-008

**Client Sample ID:** GWC-1  
**Collection Date:** 6/22/2020 3:10:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/28/2020 00:44	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/28/2020 00:44	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
2-Butanone	BRL	100		ug/L	299223	1	06/28/2020 00:44	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/28/2020 00:44	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/28/2020 00:44	JT
Acetone	BRL	100		ug/L	299223	1	06/28/2020 00:44	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/28/2020 00:44	JT
Benzene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Bromoform	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Bromomethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/28/2020 00:44	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Chloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Iodomethane	BRL	100		ug/L	299223	1	06/28/2020 00:44	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/28/2020 00:44	JT
Styrene	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Toluene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/28/2020 00:44	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/28/2020 00:44	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/28/2020 00:44	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 3:10:00 PM
<b>Lab ID:</b> 2006U09-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>		<b>(SW5030B)</b>						
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/28/2020 00:44	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/28/2020 00:44	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299223	1	06/28/2020 00:44	JT
Surr: Dibromofluoromethane	97.4	76.4-125		%REC	299223	1	06/28/2020 00:44	JT
Surr: Toluene-d8	100	78.3-116		%REC	299223	1	06/28/2020 00:44	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:05:00 AM
<b>Lab ID:</b> 2006U09-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 13:40	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 13:40	DK
Barium	0.0200	0.0200		mg/L	299232	1	06/30/2020 13:40	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 13:40	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 13:40	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 13:40	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 13:40	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 13:40	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 13:40	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 13:40	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 13:40	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 13:40	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 13:40	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 13:40	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 13:40	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:15:00 AM
<b>Lab ID:</b> 2006U09-010	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:12	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:12	DK
Barium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:12	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:12	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:12	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:12	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:12	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:12	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:12	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:12	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:12	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:12	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:12	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:12	DK
Zinc	0.0203	0.0200		mg/L	299232	1	06/30/2020 14:12	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:25:00 AM
<b>Lab ID:</b> 2006U09-011	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:16	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:16	DK
Barium	0.0252	0.0200		mg/L	299232	1	06/30/2020 14:16	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:16	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:16	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:16	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:16	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:16	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:16	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:16	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:16	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:16	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:16	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:16	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 14:16	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:35:00 AM
<b>Lab ID:</b> 2006U09-012	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:19	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:19	DK
Barium	0.0236	0.0200		mg/L	299232	1	06/30/2020 14:19	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:19	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:19	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:19	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:19	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:19	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:19	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:19	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:19	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:19	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:19	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:19	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 14:19	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWC-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:40:00 AM
<b>Lab ID:</b> 2006U09-013	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:23	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:23	DK
Barium	0.0239	0.0200		mg/L	299232	1	06/30/2020 14:23	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:23	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:23	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:23	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:23	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:23	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:23	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:23	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:23	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:23	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:23	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:23	DK
Zinc	0.0369	0.0200		mg/L	299232	1	06/30/2020 14:23	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit





**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-015

**Client Sample ID:** PH1-GWC-2  
**Collection Date:** 6/22/2020 1:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1-Dichloroethane	3.1	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 13:01	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 13:01	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 13:01	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 13:01	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 13:01	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 13:01	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 13:01	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 13:01	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 13:01	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 13:01	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 13:01	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 13:01	JT
cis-1,2-Dichloroethene	6.0	2.0		ug/L	299303	1	06/30/2020 13:01	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 13:01	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:01	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 3:05:00 PM
<b>Lab ID:</b> 2006U09-016	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 13:25	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 13:25	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 13:25	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 13:25	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 13:25	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 13:25	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 13:25	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 13:25	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 13:25	JT
cis-1,2-Dichloroethene	4.0	2.0		ug/L	299303	1	06/30/2020 13:25	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 3:05:00 PM
<b>Lab ID:</b> 2006U09-016	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 13:25	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 13:25	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 13:25	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 13:25	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 13:25	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 13:25	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 13:25	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299303	1	06/30/2020 13:25	JT
Surr: Dibromofluoromethane	98.3	76.4-125		%REC	299303	1	06/30/2020 13:25	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 13:25	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-017

**Client Sample ID:** PH1-GWA-1A  
**Collection Date:** 6/22/2020 3:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,2,3-Trichloropropane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299223	1	06/28/2020 01:07	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299223	1	06/28/2020 01:07	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
2-Butanone	BRL	100		ug/L	299223	1	06/28/2020 01:07	JT
2-Hexanone	BRL	50		ug/L	299223	1	06/28/2020 01:07	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299223	1	06/28/2020 01:07	JT
Acetone	BRL	100		ug/L	299223	1	06/28/2020 01:07	JT
Acrylonitrile	BRL	50		ug/L	299223	1	06/28/2020 01:07	JT
Benzene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Bromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Bromodichloromethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Bromoform	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Bromomethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Carbon disulfide	BRL	5.0		ug/L	299223	1	06/28/2020 01:07	JT
Carbon tetrachloride	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Chlorobenzene	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Chloroethane	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Chloroform	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Chloromethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Dibromochloromethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Dibromomethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Ethylbenzene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Iodomethane	BRL	100		ug/L	299223	1	06/28/2020 01:07	JT
Methylene chloride	BRL	5.0		ug/L	299223	1	06/28/2020 01:07	JT
Styrene	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Tetrachloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Toluene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299223	1	06/28/2020 01:07	JT
Trichloroethene	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Trichlorofluoromethane	BRL	10		ug/L	299223	1	06/28/2020 01:07	JT
Vinyl acetate	BRL	100		ug/L	299223	1	06/28/2020 01:07	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-1A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/22/2020 3:15:00 PM
<b>Lab ID:</b> 2006U09-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299223	1	06/28/2020 01:07	JT
Xylenes, Total	BRL	5.0		ug/L	299223	1	06/28/2020 01:07	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299223	1	06/28/2020 01:07	JT
Surr: Dibromofluoromethane	98.3	76.4-125		%REC	299223	1	06/28/2020 01:07	JT
Surr: Toluene-d8	99.5	78.3-116		%REC	299223	1	06/28/2020 01:07	JT
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:34	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:34	DK
Barium	0.0217	0.0200		mg/L	299232	1	06/30/2020 14:34	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:34	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:34	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:34	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:34	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:34	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:34	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:34	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:34	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:34	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:34	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:34	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 14:34	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-018

**Client Sample ID:** GWA-1  
**Collection Date:** 6/23/2020 9:30:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 15:45	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 15:45	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 15:45	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 15:45	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 15:45	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 15:45	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 15:45	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 15:45	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 15:45	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 15:45	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 15:45	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:30:00 AM
<b>Lab ID:</b> 2006U09-018	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 15:45	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 15:45	ZH
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299305	1	06/29/2020 15:45	ZH
Surr: Dibromofluoromethane	105	76.4-125		%REC	299305	1	06/29/2020 15:45	ZH
Surr: Toluene-d8	101	78.3-116		%REC	299305	1	06/29/2020 15:45	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-019

**Client Sample ID:** GWA-1A  
**Collection Date:** 6/23/2020 10:05:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 16:07	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 16:07	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 16:07	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 16:07	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 16:07	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 16:07	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 16:07	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 16:07	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 16:07	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 16:07	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 16:07	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-1A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-019	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:07	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 16:07	ZH
Surr: 4-Bromofluorobenzene	99.5	64-125		%REC	299305	1	06/29/2020 16:07	ZH
Surr: Dibromofluoromethane	99.9	76.4-125		%REC	299305	1	06/29/2020 16:07	ZH
Surr: Toluene-d8	104	78.3-116		%REC	299305	1	06/29/2020 16:07	ZH
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 14:37	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 14:37	DK
Barium	0.0303	0.0200		mg/L	299232	1	06/30/2020 14:37	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 14:37	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 14:37	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:37	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 14:37	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 14:37	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 14:37	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 14:37	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 14:37	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 14:37	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 14:37	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 14:37	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 14:37	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-020

**Client Sample ID:** GWC-4  
**Collection Date:** 6/23/2020 11:05:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/29/2020 19:52	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/29/2020 19:52	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
2-Butanone	BRL	100		ug/L	299324	1	06/29/2020 19:52	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/29/2020 19:52	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/29/2020 19:52	JE
Acetone	BRL	100		ug/L	299324	1	06/29/2020 19:52	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/29/2020 19:52	JE
Benzene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Bromoform	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Bromomethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/29/2020 19:52	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Chloromethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Iodomethane	BRL	100		ug/L	299324	1	06/29/2020 19:52	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/29/2020 19:52	JE
Styrene	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Toluene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/29/2020 19:52	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/29/2020 19:52	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/29/2020 19:52	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 11:05:00 AM
<b>Lab ID:</b> 2006U09-020	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/29/2020 19:52	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/29/2020 19:52	JE
Surr: 4-Bromofluorobenzene	98.1	64-125		%REC	299324	1	06/29/2020 19:52	JE
Surr: Dibromofluoromethane	105	76.4-125		%REC	299324	1	06/29/2020 19:52	JE
Surr: Toluene-d8	96.3	78.3-116		%REC	299324	1	06/29/2020 19:52	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:20:00 PM
<b>Lab ID:</b> 2006U09-021	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 16:30	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 16:30	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 16:30	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 16:30	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 16:30	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 16:30	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 16:30	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 16:30	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 16:30	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 16:30	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 16:30	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:20:00 PM
<b>Lab ID:</b> 2006U09-021	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:30	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 16:30	ZH
Surr: 4-Bromofluorobenzene	99	64-125		%REC	299305	1	06/29/2020 16:30	ZH
Surr: Dibromofluoromethane	99.1	76.4-125		%REC	299305	1	06/29/2020 16:30	ZH
Surr: Toluene-d8	104	78.3-116		%REC	299305	1	06/29/2020 16:30	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1-Dichloroethane	18	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 13:48	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 13:48	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 13:48	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 13:48	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 13:48	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 13:48	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 13:48	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 13:48	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 13:48	JT
cis-1,2-Dichloroethene	26	2.0		ug/L	299303	1	06/30/2020 13:48	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>			<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 13:48	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 13:48	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 13:48	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Trichloroethene	4.3	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 13:48	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 13:48	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 13:48	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 13:48	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 13:48	JT
Surr: Dibromofluoromethane	97.2	76.4-125		%REC	299303	1	06/30/2020 13:48	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 13:48	JT

<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>		<b>SW8270E</b>			<b>(SW3510C)</b>			
1,2,4,5-Tetrachlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
1,3-Dinitrobenzene	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
1,4-Napthoquinone	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
1-Naphthylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,3,4,6-Tetrachlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,4,5-Trichlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,4,6-Trichlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,4-Dichlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,4-Dimethylphenol	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
2,4-Dinitrophenol	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
2,4-Dinitrotoluene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,6-Dichlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2,6-Dinitrotoluene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Acetylaminofluorene	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
2-Chloronaphthalene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Chlorophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Methylnaphthalene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Methylphenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Naphthylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
2-Nitroaniline	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
2-Nitrophenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
3,3'-Dichlorobenzidine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
3,3'-Dimethylbenzidine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
3,4-Methylphenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
3-Methylcholanthrene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
3-Nitroaniline	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
4-Aminobiphenyl	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
4-Bromophenyl phenyl ether	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
4-Chloroaniline	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
4-Chlorophenyl phenyl ether	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
4-Nitroaniline	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
4-Nitrophenol	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
5-Nitro-o-toluidine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
7,12-Dimethylbenz(a)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Acenaphthene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Acenaphthylene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Acetophenone	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benz(a)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benzo(a)pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benzo(b)fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benzo(g,h,i)perylene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benzo(k)fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Benzyl alcohol	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Bis(2-chloroethoxy)methane	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Bis(2-chloroethyl)ether	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Bis(2-chloroisopropyl)ether	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Bis(2-ethylhexyl)phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Butyl benzyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Chlorobenzilate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Chrysene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Di-n-butyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Di-n-octyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Diallylate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Dibenz(a,h)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Dibenzofuran	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Diethyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Dimethoate	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Dimethyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Diphenylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Disulfoton	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Ethyl methanesulfonate	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Famphur	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Fluorene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Hexachlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Hexachlorobutadiene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Hexachlorocyclopentadiene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Hexachloroethane	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Hexachloropropene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Indeno(1,2,3-cd)pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Isodrin	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Isophorone	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Isosafrole	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Kepone	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
Methapyrilene	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Methyl methanesulfonate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Methyl parathion	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitroso-di-n-butylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosodi-n-propylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosodiethylamine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosodimethylamine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosodiphenylamine	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosomethylethylamine	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosopiperidine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
N-Nitrosopyrrolidine	BRL	20		ug/L	299201	1	06/29/2020 18:35	YH
Naphthalene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Nitrobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
O,O,O-Triethylphosphorothioate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
o-Toluidine	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
p-Dimethylaminoazobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
p-Phenylenediamine	BRL	250		ug/L	299201	1	06/29/2020 18:35	YH
Parathion	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Pentachlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Pentachloronitrobenzene	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Pentachlorophenol	BRL	25		ug/L	299201	1	06/29/2020 18:35	YH
Phenacetin	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Phenanthrene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Phenol	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Phorate	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Pronamide	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Safrole	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Sym-Trinitrobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 18:35	YH
Thionazin	BRL	10		ug/L	299201	1	06/29/2020 18:35	YH
Surr: 2,4,6-Tribromophenol	89.9	47-127		%REC	299201	1	06/29/2020 18:35	YH
Surr: 2-Fluorobiphenyl	80.7	47.4-119		%REC	299201	1	06/29/2020 18:35	YH
Surr: 2-Fluorophenol	18.6	26.2-120	S	%REC	299201	1	06/29/2020 18:35	YH
Surr: 4-Terphenyl-d14	52.1	45-133		%REC	299201	1	06/29/2020 18:35	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:05:00 PM
<b>Lab ID:</b> 2006U09-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>		<b>SW8270E</b>			<b>(SW3510C)</b>			
Surr: Nitrobenzene-d5	64.5	41.9-121		%REC	299201	1	06/29/2020 18:35	YH
Surr: Phenol-d5	11.8	17.8-120	S	%REC	299201	1	06/29/2020 18:35	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
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	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-023

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/23/2020 3:35:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1-Dichloroethane	13	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 14:12	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 14:12	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 14:12	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 14:12	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 14:12	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 14:12	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 14:12	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 14:12	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 14:12	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 14:12	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 14:12	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 14:12	JT
cis-1,2-Dichloroethene	27	2.0		ug/L	299303	1	06/30/2020 14:12	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 14:12	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:12	JT

**Qualifiers:**

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- E Estimated (value above quantitation range)
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**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-023

**Client Sample ID:** GWC-8R  
**Collection Date:** 6/23/2020 3:35:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
3,3'-Dichlorobenzidine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
3,3'-Dimethylbenzidine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
3,4-Methylphenol	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
3-Methylcholanthrene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
3-Nitroaniline	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
4-Aminobiphenyl	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
4-Bromophenyl phenyl ether	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
4-Chloroaniline	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
4-Chlorophenyl phenyl ether	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
4-Nitroaniline	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
4-Nitrophenol	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
5-Nitro-o-toluidine	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
7,12-Dimethylbenz(a)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Acenaphthene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Acenaphthylene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Acetophenone	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benz(a)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benzo(a)pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benzo(b)fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benzo(g,h,i)perylene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benzo(k)fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Benzyl alcohol	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Bis(2-chloroethoxy)methane	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Bis(2-chloroethyl)ether	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Bis(2-chloroisopropyl)ether	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Bis(2-ethylhexyl)phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Butyl benzyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Chlorobenzilate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Chrysene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Di-n-butyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Di-n-octyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Diallylate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Dibenz(a,h)anthracene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Dibenzofuran	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Diethyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Dimethoate	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Dimethyl phthalate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Diphenylamine	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Disulfoton	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Ethyl methanesulfonate	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Famphur	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Fluoranthene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:35:00 PM
<b>Lab ID:</b> 2006U09-023	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Fluorene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Hexachlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Hexachlorobutadiene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Hexachlorocyclopentadiene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Hexachloroethane	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Hexachloropropene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Indeno(1,2,3-cd)pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Isodrin	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Isophorone	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Isosafrole	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Kepone	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
Methapyrilene	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Methyl methanesulfonate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Methyl parathion	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitroso-di-n-butylamine	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosodi-n-propylamine	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosodiethylamine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosodimethylamine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosodiphenylamine	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosomethylethylamine	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosopiperidine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
N-Nitrosopyrrolidine	BRL	20		ug/L	299201	1	06/29/2020 19:02	YH
Naphthalene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Nitrobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
O,O,O-Triethylphosphorothioate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
o-Toluidine	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
p-Dimethylaminoazobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
p-Phenylenediamine	BRL	250		ug/L	299201	1	06/29/2020 19:02	YH
Parathion	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Pentachlorobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Pentachloronitrobenzene	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Pentachlorophenol	BRL	25		ug/L	299201	1	06/29/2020 19:02	YH
Phenacetin	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Phenanthrene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Phenol	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Phorate	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Pronamide	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Pyrene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Safrole	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Sym-Trinitrobenzene	BRL	5.0		ug/L	299201	1	06/29/2020 19:02	YH
Thionazin	BRL	10		ug/L	299201	1	06/29/2020 19:02	YH
Surr: 2,4,6-Tribromophenol	92.6	47-127		%REC	299201	1	06/29/2020 19:02	YH
Surr: 2-Fluorobiphenyl	81.1	47.4-119		%REC	299201	1	06/29/2020 19:02	YH
Surr: 2-Fluorophenol	25	26.2-120	S	%REC	299201	1	06/29/2020 19:02	YH
Surr: 4-Terphenyl-d14	57.3	45-133		%REC	299201	1	06/29/2020 19:02	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:35:00 PM
<b>Lab ID:</b> 2006U09-023	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIXII-SEMIVOLATILE ORGANICS</b>	<b>SW8270E</b>				<b>(SW3510C)</b>			
Surr: Nitrobenzene-d5	66.8	41.9-121		%REC	299201	1	06/29/2020 19:02	YH
Surr: Phenol-d5	15.6	17.8-120	S	%REC	299201	1	06/29/2020 19:02	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-024

**Client Sample ID:** AMW-2  
**Collection Date:** 6/23/2020 5:00:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 14:35	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 14:35	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 14:35	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 14:35	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 14:35	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 14:35	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 14:35	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 14:35	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 14:35	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 14:35	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 14:35	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 14:35	JT
cis-1,2-Dichloroethene	2.2	2.0		ug/L	299303	1	06/30/2020 14:35	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 14:35	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:35	JT

**Qualifiers:**

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWA-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:15:00 AM
<b>Lab ID:</b> 2006U09-026	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:02	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:02	DK
Barium	0.0223	0.0200		mg/L	299232	1	06/30/2020 15:02	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:02	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:02	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:02	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:02	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:02	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:02	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:02	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:02	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:02	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:02	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:02	DK
Zinc	0.0307	0.0200		mg/L	299232	1	06/30/2020 15:02	DK

**Qualifiers:**

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- Narr See case narrative
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- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:25:00 AM
<b>Lab ID:</b> 2006U09-027	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:06	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:06	DK
Barium	0.0256	0.0200		mg/L	299232	1	06/30/2020 15:06	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:06	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:06	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:06	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:06	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:06	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:06	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:06	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:06	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:06	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:06	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:06	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:06	DK

**Qualifiers:**

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- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-4A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:30:00 AM
<b>Lab ID:</b> 2006U09-028	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:09	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:09	DK
Barium	0.0299	0.0200		mg/L	299232	1	06/30/2020 15:09	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:09	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:09	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:09	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:09	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:09	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:09	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:09	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:09	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:09	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:09	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:09	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:09	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 9:55:00 AM
<b>Lab ID:</b> 2006U09-029	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:13	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:13	DK
Barium	0.0953	0.0200		mg/L	299232	1	06/30/2020 15:13	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:13	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:13	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:13	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:13	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:13	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:13	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:13	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:13	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:13	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:13	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:13	DK
Zinc	0.0554	0.0200		mg/L	299232	1	06/30/2020 15:13	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 10:00:00 AM
<b>Lab ID:</b> 2006U09-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:16	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:16	DK
Barium	0.0275	0.0200		mg/L	299232	1	06/30/2020 15:16	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:16	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:16	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:16	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:16	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:16	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:16	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:16	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:16	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:16	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:16	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:16	DK
Zinc	0.0278	0.0200		mg/L	299232	1	06/30/2020 15:16	DK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 11:10:00 AM
<b>Lab ID:</b> 2006U09-031	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 16:52	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 16:52	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 16:52	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 16:52	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 16:52	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 16:52	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 16:52	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 16:52	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 16:52	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 16:52	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 16:52	ZH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 11:10:00 AM
<b>Lab ID:</b> 2006U09-031	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 16:52	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 16:52	ZH
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299305	1	06/29/2020 16:52	ZH
Surr: Dibromofluoromethane	106	76.4-125		%REC	299305	1	06/29/2020 16:52	ZH
Surr: Toluene-d8	102	78.3-116		%REC	299305	1	06/29/2020 16:52	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:00:00 PM
<b>Lab ID:</b> 2006U09-032	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 14:59	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 14:59	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 14:59	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 14:59	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 14:59	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 14:59	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 14:59	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 14:59	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 14:59	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:00:00 PM
<b>Lab ID:</b> 2006U09-032	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 14:59	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 14:59	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 14:59	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 14:59	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 14:59	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 14:59	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 14:59	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 14:59	JT
Surr: Dibromofluoromethane	99	76.4-125		%REC	299303	1	06/30/2020 14:59	JT
Surr: Toluene-d8	102	78.3-116		%REC	299303	1	06/30/2020 14:59	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-17
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:15:00 PM
<b>Lab ID:</b> 2006U09-033	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 15:22	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 15:22	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 15:22	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 15:22	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 15:22	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 15:22	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 15:22	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 15:22	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 15:22	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-17
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 12:15:00 PM
<b>Lab ID:</b> 2006U09-033	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 15:22	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 15:22	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 15:22	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 15:22	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 15:22	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 15:22	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 15:22	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299303	1	06/30/2020 15:22	JT
Surr: Dibromofluoromethane	97.8	76.4-125		%REC	299303	1	06/30/2020 15:22	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 15:22	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-034

**Client Sample ID:** GWC-18  
**Collection Date:** 6/23/2020 1:00:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 15:45	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 15:45	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 15:45	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 15:45	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 15:45	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 15:45	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 15:45	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 15:45	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 15:45	JT
cis-1,2-Dichloroethene	10	2.0		ug/L	299303	1	06/30/2020 15:45	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-18
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 1:00:00 PM
<b>Lab ID:</b> 2006U09-034	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 15:45	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 15:45	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 15:45	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Tetrachloroethene	5.7	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 15:45	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 15:45	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 15:45	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 15:45	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299303	1	06/30/2020 15:45	JT
Surr: Dibromofluoromethane	98.4	76.4-125		%REC	299303	1	06/30/2020 15:45	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 15:45	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-035

**Client Sample ID:** GWC-22  
**Collection Date:** 6/23/2020 1:40:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 17:14	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 17:14	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 17:14	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 17:14	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 17:14	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 17:14	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 17:14	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 17:14	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 17:14	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 17:14	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 17:14	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-22
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 1:40:00 PM
<b>Lab ID:</b> 2006U09-035	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:14	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 17:14	ZH
Surr: 4-Bromofluorobenzene	99.5	64-125		%REC	299305	1	06/29/2020 17:14	ZH
Surr: Dibromofluoromethane	100	76.4-125		%REC	299305	1	06/29/2020 17:14	ZH
Surr: Toluene-d8	104	78.3-116		%REC	299305	1	06/29/2020 17:14	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-19R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:15:00 PM
<b>Lab ID:</b> 2006U09-036	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 16:09	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 16:09	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 16:09	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 16:09	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 16:09	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 16:09	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 16:09	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 16:09	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 16:09	JT
cis-1,2-Dichloroethene	7.2	2.0		ug/L	299303	1	06/30/2020 16:09	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-19R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:15:00 PM
<b>Lab ID:</b> 2006U09-036	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 16:09	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 16:09	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 16:09	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 16:09	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 16:09	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 16:09	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 16:09	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 16:09	JT
Surr: Dibromofluoromethane	97.4	76.4-125		%REC	299303	1	06/30/2020 16:09	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 16:09	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:55:00 PM
<b>Lab ID:</b> 2006U09-037	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1-Dichloroethane	2.4	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 16:32	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 16:32	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 16:32	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 16:32	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 16:32	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 16:32	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 16:32	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 16:32	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 16:32	JT
cis-1,2-Dichloroethene	23	2.0		ug/L	299303	1	06/30/2020 16:32	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 2:55:00 PM
<b>Lab ID:</b> 2006U09-037	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 16:32	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 16:32	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 16:32	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 16:32	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 16:32	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 16:32	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 16:32	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 16:32	JT
Surr: Dibromofluoromethane	97.4	76.4-125		%REC	299303	1	06/30/2020 16:32	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 16:32	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:20:00 PM
<b>Lab ID:</b> 2006U09-038	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 17:37	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 17:37	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 17:37	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 17:37	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 17:37	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 17:37	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 17:37	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 17:37	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 17:37	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 17:37	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 17:37	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:20:00 PM
<b>Lab ID:</b> 2006U09-038	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:37	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 17:37	ZH
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299305	1	06/29/2020 17:37	ZH
Surr: Dibromofluoromethane	100	76.4-125		%REC	299305	1	06/29/2020 17:37	ZH
Surr: Toluene-d8	104	78.3-116		%REC	299305	1	06/29/2020 17:37	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-5
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:40:00 PM
<b>Lab ID:</b> 2006U09-039	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 17:59	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 17:59	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 17:59	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 17:59	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 17:59	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 17:59	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 17:59	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 17:59	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 17:59	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 17:59	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 17:59	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-5
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/23/2020 3:40:00 PM
<b>Lab ID:</b> 2006U09-039	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 17:59	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 17:59	ZH
Surr: 4-Bromofluorobenzene	99.6	64-125		%REC	299305	1	06/29/2020 17:59	ZH
Surr: Dibromofluoromethane	99.3	76.4-125		%REC	299305	1	06/29/2020 17:59	ZH
Surr: Toluene-d8	103	78.3-116		%REC	299305	1	06/29/2020 17:59	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:05:00 AM
<b>Lab ID:</b> 2006U09-040	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:20	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:20	DK
Barium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:20	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:20	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:20	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:20	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:20	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:20	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:20	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:20	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:20	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:20	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:20	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:20	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:20	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-17
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:15:00 AM
<b>Lab ID:</b> 2006U09-041	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:24	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:24	DK
Barium	0.0309	0.0200		mg/L	299232	1	06/30/2020 15:24	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:24	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:24	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:24	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:24	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:24	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:24	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:24	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:24	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:24	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:24	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:24	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:24	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-13
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:10:00 AM
<b>Lab ID:</b> 2006U09-042	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:27	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:27	DK
Barium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:27	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:27	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:27	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:27	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:27	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:27	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:27	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:27	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:27	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:27	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:27	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:27	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:27	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-043

**Client Sample ID:** PH1-GWB-1  
**Collection Date:** 6/24/2020 10:05:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 18:22	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 18:22	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 18:22	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 18:22	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 18:22	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 18:22	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 18:22	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 18:22	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 18:22	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 18:22	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 18:22	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-043	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 18:22	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 18:22	ZH
Surr: 4-Bromofluorobenzene	99.6	64-125		%REC	299305	1	06/29/2020 18:22	ZH
Surr: Dibromofluoromethane	99.9	76.4-125		%REC	299305	1	06/29/2020 18:22	ZH
Surr: Toluene-d8	103	78.3-116		%REC	299305	1	06/29/2020 18:22	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-044

**Client Sample ID:** GWC-3  
**Collection Date:** 6/24/2020 10:30:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
2-Butanone	BRL	100		ug/L	299305	1	06/29/2020 18:44	ZH
2-Hexanone	BRL	50		ug/L	299305	1	06/29/2020 18:44	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	299305	1	06/29/2020 18:44	ZH
Acetone	BRL	100		ug/L	299305	1	06/29/2020 18:44	ZH
Acrylonitrile	BRL	50		ug/L	299305	1	06/29/2020 18:44	ZH
Benzene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Bromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Bromodichloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Bromoform	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Bromomethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Carbon disulfide	BRL	5.0		ug/L	299305	1	06/29/2020 18:44	ZH
Carbon tetrachloride	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Chlorobenzene	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Chloroethane	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Chloroform	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Chloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Dibromochloromethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Dibromomethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Ethylbenzene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Iodomethane	BRL	100		ug/L	299305	1	06/29/2020 18:44	ZH
Methylene chloride	BRL	5.0		ug/L	299305	1	06/29/2020 18:44	ZH
Styrene	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Tetrachloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Toluene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299305	1	06/29/2020 18:44	ZH
Trichloroethene	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Trichlorofluoromethane	BRL	10		ug/L	299305	1	06/29/2020 18:44	ZH
Vinyl acetate	BRL	100		ug/L	299305	1	06/29/2020 18:44	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 10:30:00 AM
<b>Lab ID:</b> 2006U09-044	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299305	1	06/29/2020 18:44	ZH
Xylenes, Total	BRL	5.0		ug/L	299305	1	06/29/2020 18:44	ZH
Surr: 4-Bromofluorobenzene	99.7	64-125		%REC	299305	1	06/29/2020 18:44	ZH
Surr: Dibromofluoromethane	99.2	76.4-125		%REC	299305	1	06/29/2020 18:44	ZH
Surr: Toluene-d8	102	78.3-116		%REC	299305	1	06/29/2020 18:44	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-24
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 11:30:00 AM
<b>Lab ID:</b> 2006U09-045	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 16:55	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 16:55	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 16:55	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 16:55	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 16:55	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 16:55	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 16:55	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 16:55	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 16:55	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 16:55	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 16:55	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 16:55	JT
cis-1,2-Dichloroethene	3.0	2.0		ug/L	299303	1	06/30/2020 16:55	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 16:55	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 16:55	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-046

**Client Sample ID:** GWC-14  
**Collection Date:** 6/24/2020 11:50:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 17:14	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 17:14	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 17:14	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 17:14	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 17:14	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 17:14	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 17:14	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 17:14	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 17:14	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 17:14	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 17:14	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 17:14	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 17:14	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 11:50:00 AM
<b>Lab ID:</b> 2006U09-046	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 17:14	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 17:14	OM
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299366	1	06/30/2020 17:14	OM
Surr: Dibromofluoromethane	102	76.4-125		%REC	299366	1	06/30/2020 17:14	OM
Surr: Toluene-d8	97.9	78.3-116		%REC	299366	1	06/30/2020 17:14	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:20:00 PM
<b>Lab ID:</b> 2006U09-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 17:39	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 17:39	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 17:39	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 17:39	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 17:39	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 17:39	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 17:39	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 17:39	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 17:39	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 17:39	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 17:39	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 17:39	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 17:39	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:20:00 PM
<b>Lab ID:</b> 2006U09-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 17:39	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 17:39	OM
Surr: 4-Bromofluorobenzene	99.8	64-125		%REC	299366	1	06/30/2020 17:39	OM
Surr: Dibromofluoromethane	100	76.4-125		%REC	299366	1	06/30/2020 17:39	OM
Surr: Toluene-d8	98	78.3-116		%REC	299366	1	06/30/2020 17:39	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:10:00 PM
<b>Lab ID:</b> 2006U09-048	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 18:04	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 18:04	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 18:04	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 18:04	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 18:04	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 18:04	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 18:04	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 18:04	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 18:04	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 18:04	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 18:04	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 18:04	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 18:04	OM

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:10:00 PM
<b>Lab ID:</b> 2006U09-048	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:04	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 18:04	OM
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299366	1	06/30/2020 18:04	OM
Surr: Dibromofluoromethane	99.8	76.4-125		%REC	299366	1	06/30/2020 18:04	OM
Surr: Toluene-d8	98	78.3-116		%REC	299366	1	06/30/2020 18:04	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299232	1	06/30/2020 15:31	DK
Arsenic	BRL	0.0100		mg/L	299232	1	06/30/2020 15:31	DK
Barium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:31	DK
Beryllium	BRL	0.00300		mg/L	299232	1	06/30/2020 15:31	DK
Cadmium	BRL	0.00500		mg/L	299232	1	06/30/2020 15:31	DK
Chromium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:31	DK
Cobalt	BRL	0.0400		mg/L	299232	1	06/30/2020 15:31	DK
Copper	BRL	0.0200		mg/L	299232	1	06/30/2020 15:31	DK
Lead	BRL	0.0150		mg/L	299232	1	06/30/2020 15:31	DK
Nickel	BRL	0.0200		mg/L	299232	1	06/30/2020 15:31	DK
Selenium	BRL	0.0100		mg/L	299232	1	06/30/2020 15:31	DK
Silver	BRL	0.0100		mg/L	299232	1	06/30/2020 15:31	DK
Thallium	BRL	0.00200		mg/L	299232	1	06/30/2020 15:31	DK
Vanadium	BRL	0.0200		mg/L	299232	1	06/30/2020 15:31	DK
Zinc	BRL	0.0200		mg/L	299232	1	06/30/2020 15:31	DK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:35:00 PM
<b>Lab ID:</b> 2006U09-049	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 18:28	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 18:28	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 18:28	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 18:28	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 18:28	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 18:28	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 18:28	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 18:28	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 18:28	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 18:28	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 18:28	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 18:28	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 18:28	OM

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-23
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:35:00 PM
<b>Lab ID:</b> 2006U09-049	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:28	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 18:28	OM
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299366	1	06/30/2020 18:28	OM
Surr: Dibromofluoromethane	101	76.4-125		%REC	299366	1	06/30/2020 18:28	OM
Surr: Toluene-d8	99.6	78.3-116		%REC	299366	1	06/30/2020 18:28	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 17:43	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 17:43	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 17:43	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 17:43	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 17:43	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 17:43	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 17:43	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 17:43	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 17:43	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 17:43	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 17:43	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 17:43	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 17:43	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 17:43	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 17:43	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 2:10:00 PM
<b>Lab ID:</b> 2006U09-050	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 17:19	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 17:19	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 17:19	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 17:19	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 17:19	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 17:19	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 17:19	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 17:19	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 17:19	JT
cis-1,2-Dichloroethene	42	2.0		ug/L	299303	1	06/30/2020 17:19	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 2:10:00 PM
<b>Lab ID:</b> 2006U09-050	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 17:19	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 17:19	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 17:19	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Trichloroethene	2.4	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 17:19	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 17:19	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 17:19	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 17:19	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299303	1	06/30/2020 17:19	JT
Surr: Dibromofluoromethane	97.2	76.4-125		%REC	299303	1	06/30/2020 17:19	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 17:19	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-051

**Client Sample ID:** FIELD BLANK 2  
**Collection Date:** 6/24/2020 2:15:00 PM  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 19:17	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 19:17	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 19:17	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 19:17	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 19:17	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 19:17	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 19:17	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 19:17	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 19:17	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 19:17	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 19:17	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 19:17	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 19:17	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> FIELD BLANK 2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 2:15:00 PM
<b>Lab ID:</b> 2006U09-051	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 19:17	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 19:17	OM
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299366	1	06/30/2020 19:17	OM
Surr: Dibromofluoromethane	100	76.4-125		%REC	299366	1	06/30/2020 19:17	OM
Surr: Toluene-d8	100	78.3-116		%REC	299366	1	06/30/2020 19:17	OM
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:16	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:16	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:16	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:16	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:16	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:16	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:16	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:16	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:16	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:16	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:16	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:16	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:16	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:16	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:16	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 3:25:00 PM
<b>Lab ID:</b> 2006U09-052	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1-Dichloroethane	10	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 17:42	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 17:42	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 17:42	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 17:42	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 17:42	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 17:42	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 17:42	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Benzene	2.5	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 17:42	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Chlorobenzene	12	10		ug/L	299303	1	06/30/2020 17:42	JT
Chloroethane	3.3	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 17:42	JT
cis-1,2-Dichloroethene	62	2.0		ug/L	299303	1	06/30/2020 17:42	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 3:25:00 PM
<b>Lab ID:</b> 2006U09-052	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260D</b>		<b>(SW5030B)</b>						
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 17:42	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 17:42	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 17:42	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 17:42	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 17:42	JT
Vinyl chloride	7.5	2.0		ug/L	299303	1	06/30/2020 17:42	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 17:42	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299303	1	06/30/2020 17:42	JT
Surr: Dibromofluoromethane	96.6	76.4-125		%REC	299303	1	06/30/2020 17:42	JT
Surr: Toluene-d8	99.5	78.3-116		%REC	299303	1	06/30/2020 17:42	JT

<b>APPENDIX I METALS SW6020B</b>		<b>(SW3005A)</b>						
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:19	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:19	AS
Barium	0.171	0.0200		mg/L	299233	1	06/30/2020 18:19	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:19	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:19	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:19	AS
Cobalt	0.301	0.0400		mg/L	299233	1	06/30/2020 18:19	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:19	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:19	AS
Nickel	0.0222	0.0200		mg/L	299233	1	06/30/2020 18:19	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:19	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:19	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:19	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:19	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:19	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 4:00:00 PM
<b>Lab ID:</b> 2006U09-053	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 18:52	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 18:52	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 18:52	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 18:52	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 18:52	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 18:52	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 18:52	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 18:52	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 18:52	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 18:52	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 18:52	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 18:52	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 18:52	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 4:00:00 PM
<b>Lab ID:</b> 2006U09-053	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 18:52	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 18:52	OM
Surr: 4-Bromofluorobenzene	99	64-125		%REC	299366	1	06/30/2020 18:52	OM
Surr: Dibromofluoromethane	103	76.4-125		%REC	299366	1	06/30/2020 18:52	OM
Surr: Toluene-d8	101	78.3-116		%REC	299366	1	06/30/2020 18:52	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-054

**Client Sample ID:** AMW-9  
**Collection Date:** 6/24/2020 4:25:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299303	1	06/30/2020 18:06	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299303	1	06/30/2020 18:06	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
2-Butanone	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
2-Hexanone	BRL	50		ug/L	299303	1	06/30/2020 18:06	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299303	1	06/30/2020 18:06	JT
Acetone	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Acetonitrile	BRL	200		ug/L	299303	1	06/30/2020 18:06	JT
Acrolein	BRL	50		ug/L	299303	1	06/30/2020 18:06	JT
Acrylonitrile	BRL	50		ug/L	299303	1	06/30/2020 18:06	JT
Allyl Chloride	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Benzene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Bromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Bromodichloromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Bromoform	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Bromomethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Carbon disulfide	BRL	5.0		ug/L	299303	1	06/30/2020 18:06	JT
Carbon tetrachloride	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Chlorobenzene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Chloroethane	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Chloroform	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Chloromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Chloroprene	BRL	20		ug/L	299303	1	06/30/2020 18:06	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Dibromochloromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Dibromomethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Dichlorodifluoromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Ethyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Ethylbenzene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-9
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 4:25:00 PM
<b>Lab ID:</b> 2006U09-054	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Isobutyl Alcohol	BRL	200		ug/L	299303	1	06/30/2020 18:06	JT
Methyl Methacrylate	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Methylacrylonitrile	BRL	200		ug/L	299303	1	06/30/2020 18:06	JT
Methylene chloride	BRL	5.0		ug/L	299303	1	06/30/2020 18:06	JT
Naphthalene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Propionitrile	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Styrene	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Tetrachloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Toluene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Trichloroethene	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Trichlorofluoromethane	BRL	10		ug/L	299303	1	06/30/2020 18:06	JT
Vinyl acetate	BRL	100		ug/L	299303	1	06/30/2020 18:06	JT
Vinyl chloride	BRL	2.0		ug/L	299303	1	06/30/2020 18:06	JT
Xylenes, Total	BRL	5.0		ug/L	299303	1	06/30/2020 18:06	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299303	1	06/30/2020 18:06	JT
Surr: Dibromofluoromethane	97.2	76.4-125		%REC	299303	1	06/30/2020 18:06	JT
Surr: Toluene-d8	101	78.3-116		%REC	299303	1	06/30/2020 18:06	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-055

**Client Sample ID:** PH1-GWA-4  
**Collection Date:** 6/24/2020 5:05:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 19:42	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 19:42	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 19:42	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 19:42	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 19:42	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 19:42	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 19:42	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 19:42	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 19:42	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 19:42	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 19:42	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 19:42	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 19:42	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 5:05:00 PM
<b>Lab ID:</b> 2006U09-055	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 19:42	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 19:42	OM
Surr: 4-Bromofluorobenzene	99.6	64-125		%REC	299366	1	06/30/2020 19:42	OM
Surr: Dibromofluoromethane	101	76.4-125		%REC	299366	1	06/30/2020 19:42	OM
Surr: Toluene-d8	99.1	78.3-116		%REC	299366	1	06/30/2020 19:42	OM

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:05:00 AM
<b>Lab ID:</b> 2006U09-056	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:23	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:23	AS
Barium	0.0793	0.0200		mg/L	299233	1	06/30/2020 18:23	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:23	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:23	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:23	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:23	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:23	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:23	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:23	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:23	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:23	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:23	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:23	AS
Zinc	0.0268	0.0200		mg/L	299233	1	06/30/2020 18:23	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:12:00 AM
<b>Lab ID:</b> 2006U09-057	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:26	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:26	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:26	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:26	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:26	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:26	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:26	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:26	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:26	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:26	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:26	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:26	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:26	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:26	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:26	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:15:00 AM
<b>Lab ID:</b> 2006U09-058	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:30	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:30	AS
Barium	0.0371	0.0200		mg/L	299233	1	06/30/2020 18:30	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:30	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:30	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:30	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:30	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:30	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:30	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:30	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:30	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:30	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:30	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:30	AS
Zinc	0.0331	0.0200		mg/L	299233	1	06/30/2020 18:30	AS

**Qualifiers:**

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- H Holding times for preparation or analysis exceeded
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-24
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:25:00 AM
<b>Lab ID:</b> 2006U09-059	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:33	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:33	AS
Barium	0.0258	0.0200		mg/L	299233	1	06/30/2020 18:33	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:33	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:33	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:33	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:33	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:33	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:33	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:33	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:33	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:33	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:33	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:33	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:33	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-14
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:32:00 AM
<b>Lab ID:</b> 2006U09-060	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:37	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:37	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:37	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:37	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:37	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:37	AS
Cobalt	0.0951	0.0400		mg/L	299233	1	06/30/2020 18:37	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:37	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:37	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:37	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:37	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:37	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:37	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:37	AS
Zinc	0.0253	0.0200		mg/L	299233	1	06/30/2020 18:37	AS

**Qualifiers:**

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- B Analyte detected in the associated method blank
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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:42:00 AM
<b>Lab ID:</b> 2006U09-061	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:40	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:40	AS
Barium	0.0646	0.0200		mg/L	299233	1	06/30/2020 18:40	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:40	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:40	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:40	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:40	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:40	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:40	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:40	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:40	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:40	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:40	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:40	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:40	AS

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:50:00 AM
<b>Lab ID:</b> 2006U09-062	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:44	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:44	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:44	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:44	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:44	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:44	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:44	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:44	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:44	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:44	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:44	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:44	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:44	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:44	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 18:44	AS

**Qualifiers:**

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- Narr See case narrative
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- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWB-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:00:00 AM
<b>Lab ID:</b> 2006U09-063	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 18:48	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 18:48	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:48	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 18:48	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 18:48	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:48	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 18:48	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 18:48	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 18:48	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 18:48	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 18:48	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 18:48	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 18:48	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 18:48	AS
Zinc	0.0254	0.0200		mg/L	299233	1	06/30/2020 18:48	AS

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-9
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-064	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:05	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:05	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:05	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:05	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:05	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:05	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:05	AS
Copper	0.0209	0.0200		mg/L	299233	1	06/30/2020 19:05	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:05	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:05	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:05	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:05	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:05	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:05	AS
Zinc	0.0490	0.0200		mg/L	299233	1	06/30/2020 19:05	AS

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-7
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:50:00 AM
<b>Lab ID:</b> 2006U09-065	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	4.86	1.00		mg/L	R429121	1	06/30/2020 15:34	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 11:38	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 21:42	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	3.11	0.500		mg/L	R429290	1	06/29/2020 22:12	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	11.7	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:19	KB
Barium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:19	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:19	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:19	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:19	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:19	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:19	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:19	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:19	KB

**Qualifiers:**

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- Narr See case narrative
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- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:10:00 AM
<b>Lab ID:</b> 2006U09-066	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	5.30	1.00		mg/L	R429121	1	06/30/2020 16:47	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 11:41	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:10	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	4.81	0.500		mg/L	R429290	1	06/29/2020 22:28	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	11.7	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:37	KB
Barium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:37	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:37	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:37	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:37	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:37	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:37	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:37	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:37	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-067

**Client Sample ID:** SWC-6  
**Collection Date:** 6/25/2020 11:40:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	4.88	1.00		mg/L	R429121	1	06/30/2020 17:05	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 11:47	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:14	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	17.3	0.500		mg/L	R429199	1	06/30/2020 21:10	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	18.5	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,1-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,1-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,2,3-Trichloropropane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299366	1	06/30/2020 20:06	OM
1,2-Dibromoethane	BRL	1.0		ug/L	299366	1	06/30/2020 20:06	OM
1,2-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
1,2-Dichloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,2-Dichloropropane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
1,4-Dichlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
2-Butanone	BRL	100		ug/L	299366	1	06/30/2020 20:06	OM
2-Hexanone	BRL	50		ug/L	299366	1	06/30/2020 20:06	OM
4-Methyl-2-pentanone	BRL	50		ug/L	299366	1	06/30/2020 20:06	OM
Acetone	BRL	100		ug/L	299366	1	06/30/2020 20:06	OM
Acrylonitrile	BRL	50		ug/L	299366	1	06/30/2020 20:06	OM
Benzene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Bromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Bromodichloromethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Bromoform	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Bromomethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Carbon disulfide	BRL	5.0		ug/L	299366	1	06/30/2020 20:06	OM
Carbon tetrachloride	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Chlorobenzene	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Chloroethane	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Chloroform	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Chloromethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
cis-1,2-Dichloroethene	3.5	2.0		ug/L	299366	1	06/30/2020 20:06	OM

**Qualifiers:**

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- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-6
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:40:00 AM
<b>Lab ID:</b> 2006U09-067	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Dibromochloromethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Dibromomethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Ethylbenzene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Iodomethane	BRL	100		ug/L	299366	1	06/30/2020 20:06	OM
Methylene chloride	BRL	5.0		ug/L	299366	1	06/30/2020 20:06	OM
Styrene	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Tetrachloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Toluene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299366	1	06/30/2020 20:06	OM
Trichloroethene	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Trichlorofluoromethane	BRL	10		ug/L	299366	1	06/30/2020 20:06	OM
Vinyl acetate	BRL	100		ug/L	299366	1	06/30/2020 20:06	OM
Vinyl chloride	BRL	2.0		ug/L	299366	1	06/30/2020 20:06	OM
Xylenes, Total	BRL	5.0		ug/L	299366	1	06/30/2020 20:06	OM
Surr: 4-Bromofluorobenzene	99.3	64-125		%REC	299366	1	06/30/2020 20:06	OM
Surr: Dibromofluoromethane	104	76.4-125		%REC	299366	1	06/30/2020 20:06	OM
Surr: Toluene-d8	99.9	78.3-116		%REC	299366	1	06/30/2020 20:06	OM
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>				
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:40	KB
Barium	0.0325	0.0200		mg/L	299293	1	07/02/2020 15:40	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:40	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:40	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:40	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:40	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:40	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:40	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:40	KB

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-5
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:55:00 AM
<b>Lab ID:</b> 2006U09-068	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	5.21	1.00		mg/L	R429121	1	06/30/2020 17:23	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 11:51	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:18	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	12.0	0.500		mg/L	R429199	1	06/30/2020 21:26	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	20.8	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:42	KB
Barium	0.0418	0.0200		mg/L	299293	1	07/02/2020 15:42	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:42	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:42	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:42	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:42	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:42	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:42	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:42	KB

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWA-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 12:20:00 PM
<b>Lab ID:</b> 2006U09-069	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	1.40	1.00		mg/L	R429121	1	06/30/2020 17:41	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 11:53	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:22	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.15	0.500		mg/L	R429199	1	06/30/2020 21:42	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:44	KB
Barium	0.0336	0.0200		mg/L	299293	1	07/02/2020 15:44	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:44	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:44	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:44	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:44	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:44	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:44	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:44	KB

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-18
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:30:00 AM
<b>Lab ID:</b> 2006U09-070	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:09	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:09	AS
Barium	0.168	0.0200		mg/L	299233	1	06/30/2020 19:09	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:09	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:09	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:09	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:09	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:09	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:09	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:09	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:09	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:09	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:09	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:09	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:09	AS

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-22
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:40:00 AM
<b>Lab ID:</b> 2006U09-071	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:13	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:13	AS
Barium	0.0221	0.0200		mg/L	299233	1	06/30/2020 19:13	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:13	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:13	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:13	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:13	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:13	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:13	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:13	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:13	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:13	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:13	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:13	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:13	AS

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-19R
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:45:00 AM
<b>Lab ID:</b> 2006U09-072	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:16	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:16	AS
Barium	0.0830	0.0200		mg/L	299233	1	06/30/2020 19:16	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:16	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:16	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:16	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:16	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:16	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:16	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:16	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:16	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:16	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:16	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:16	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:16	AS

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:50:00 AM
<b>Lab ID:</b> 2006U09-073	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:20	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:20	AS
Barium	0.0524	0.0200		mg/L	299233	1	06/30/2020 19:20	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:20	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:20	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:20	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:20	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:20	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:20	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:20	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:20	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:20	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:20	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:20	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:20	AS

**Qualifiers:**

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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-8A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 9:55:00 AM
<b>Lab ID:</b> 2006U09-074	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:23	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:23	AS
Barium	0.0439	0.0200		mg/L	299233	1	06/30/2020 19:23	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:23	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:23	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:23	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:23	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:23	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:23	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:23	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:23	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:23	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:23	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:23	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:23	AS

**Qualifiers:**

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- Narr See case narrative
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<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-5
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-075	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:27	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:27	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:27	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:27	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:27	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:27	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:27	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:27	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:27	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:27	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:27	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:27	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:27	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:27	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:27	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-6
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 10:50:00 AM
<b>Lab ID:</b> 2006U09-076	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 00:57	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 00:57	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 00:57	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 00:57	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 00:57	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 00:57	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 00:57	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 00:57	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 00:57	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 00:57	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 00:57	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 00:57	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 00:57	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-6
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 10:50:00 AM
<b>Lab ID:</b> 2006U09-076	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 00:57	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 00:57	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299324	1	06/30/2020 00:57	JE
Surr: Dibromofluoromethane	100	76.4-125		%REC	299324	1	06/30/2020 00:57	JE
Surr: Toluene-d8	99.5	78.3-116		%REC	299324	1	06/30/2020 00:57	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-077

**Client Sample ID:** GWC-7  
**Collection Date:** 6/24/2020 11:10:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 01:17	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 01:17	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 01:17	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 01:17	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 01:17	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 01:17	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 01:17	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 01:17	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 01:17	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 01:17	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 01:17	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 01:17	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 01:17	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-7
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 11:10:00 AM
<b>Lab ID:</b> 2006U09-077	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:17	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 01:17	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299324	1	06/30/2020 01:17	JE
Surr: Dibromofluoromethane	107	76.4-125		%REC	299324	1	06/30/2020 01:17	JE
Surr: Toluene-d8	96.7	78.3-116		%REC	299324	1	06/30/2020 01:17	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-078

**Client Sample ID:** GWC-12  
**Collection Date:** 6/24/2020 12:30:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 01:38	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 01:38	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 01:38	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 01:38	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 01:38	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 01:38	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 01:38	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 01:38	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 01:38	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 01:38	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 01:38	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 01:38	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 01:38	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:30:00 PM
<b>Lab ID:</b> 2006U09-078	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:38	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 01:38	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299324	1	06/30/2020 01:38	JE
Surr: Dibromofluoromethane	105	76.4-125		%REC	299324	1	06/30/2020 01:38	JE
Surr: Toluene-d8	97.6	78.3-116		%REC	299324	1	06/30/2020 01:38	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-079

**Client Sample ID:** GWC-12A  
**Collection Date:** 6/24/2020 12:10:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 01:58	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 01:58	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 01:58	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 01:58	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 01:58	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 01:58	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 01:58	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 01:58	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 01:58	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 01:58	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 01:58	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 01:58	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 01:58	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:10:00 PM
<b>Lab ID:</b> 2006U09-079	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 01:58	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 01:58	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299324	1	06/30/2020 01:58	JE
Surr: Dibromofluoromethane	109	76.4-125		%REC	299324	1	06/30/2020 01:58	JE
Surr: Toluene-d8	96.6	78.3-116		%REC	299324	1	06/30/2020 01:58	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-080

**Client Sample ID:** FIELD BLANK-1  
**Collection Date:** 6/24/2020 12:35:00 PM  
**Matrix:** Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 02:18	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 02:18	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 02:18	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 02:18	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 02:18	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 02:18	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 02:18	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 02:18	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 02:18	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 02:18	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 02:18	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 02:18	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 02:18	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> FIELD BLANK-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:35:00 PM
<b>Lab ID:</b> 2006U09-080	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:18	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 02:18	JE
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299324	1	06/30/2020 02:18	JE
Surr: Dibromofluoromethane	108	76.4-125		%REC	299324	1	06/30/2020 02:18	JE
Surr: Toluene-d8	96	78.3-116		%REC	299324	1	06/30/2020 02:18	JE
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:30	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:30	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:30	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:30	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:30	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:30	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:30	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:30	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:30	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:30	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:30	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:30	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:30	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:30	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:30	AS

**Qualifiers:**

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:55:00 PM
<b>Lab ID:</b> 2006U09-081	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 02:38	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 02:38	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 02:38	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 02:38	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 02:38	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 02:38	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 02:38	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 02:38	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 02:38	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 02:38	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 02:38	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 02:38	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 02:38	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 12:55:00 PM
<b>Lab ID:</b> 2006U09-081	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:38	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 02:38	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299324	1	06/30/2020 02:38	JE
Surr: Dibromofluoromethane	109	76.4-125		%REC	299324	1	06/30/2020 02:38	JE
Surr: Toluene-d8	97.2	78.3-116		%REC	299324	1	06/30/2020 02:38	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-082

**Client Sample ID:** GWC-10A  
**Collection Date:** 6/24/2020 1:25:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/30/2020 02:58	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/30/2020 02:58	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
2-Butanone	BRL	100		ug/L	299324	1	06/30/2020 02:58	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/30/2020 02:58	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/30/2020 02:58	JE
Acetone	BRL	100		ug/L	299324	1	06/30/2020 02:58	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/30/2020 02:58	JE
Benzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Bromoform	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Bromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/30/2020 02:58	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Chloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Iodomethane	BRL	100		ug/L	299324	1	06/30/2020 02:58	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/30/2020 02:58	JE
Styrene	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Toluene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/30/2020 02:58	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/30/2020 02:58	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/30/2020 02:58	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:25:00 PM
<b>Lab ID:</b> 2006U09-082	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/30/2020 02:58	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/30/2020 02:58	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299324	1	06/30/2020 02:58	JE
Surr: Dibromofluoromethane	106	76.4-125		%REC	299324	1	06/30/2020 02:58	JE
Surr: Toluene-d8	96.6	78.3-116		%REC	299324	1	06/30/2020 02:58	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-11
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:50:00 PM
<b>Lab ID:</b> 2006U09-083	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/29/2020 22:13	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/29/2020 22:13	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
2-Butanone	BRL	100		ug/L	299324	1	06/29/2020 22:13	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/29/2020 22:13	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/29/2020 22:13	JE
Acetone	BRL	100		ug/L	299324	1	06/29/2020 22:13	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/29/2020 22:13	JE
Benzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Bromoform	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Bromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/29/2020 22:13	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Chloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Iodomethane	BRL	100		ug/L	299324	1	06/29/2020 22:13	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/29/2020 22:13	JE
Styrene	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Toluene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/29/2020 22:13	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/29/2020 22:13	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/29/2020 22:13	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-11
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 1:50:00 PM
<b>Lab ID:</b> 2006U09-083	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:13	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/29/2020 22:13	JE
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299324	1	06/29/2020 22:13	JE
Surr: Dibromofluoromethane	110	76.4-125		%REC	299324	1	06/29/2020 22:13	JE
Surr: Toluene-d8	95.8	78.3-116		%REC	299324	1	06/29/2020 22:13	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-084

**Client Sample ID:** GWC-9  
**Collection Date:** 6/24/2020 2:25:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/29/2020 22:34	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/29/2020 22:34	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
2-Butanone	BRL	100		ug/L	299324	1	06/29/2020 22:34	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/29/2020 22:34	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/29/2020 22:34	JE
Acetone	BRL	100		ug/L	299324	1	06/29/2020 22:34	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/29/2020 22:34	JE
Benzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Bromoform	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Bromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/29/2020 22:34	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Chloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Iodomethane	BRL	100		ug/L	299324	1	06/29/2020 22:34	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/29/2020 22:34	JE
Styrene	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Toluene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/29/2020 22:34	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/29/2020 22:34	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/29/2020 22:34	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-9
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 2:25:00 PM
<b>Lab ID:</b> 2006U09-084	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:34	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/29/2020 22:34	JE
Surr: 4-Bromofluorobenzene	100	64-125		%REC	299324	1	06/29/2020 22:34	JE
Surr: Dibromofluoromethane	111	76.4-125		%REC	299324	1	06/29/2020 22:34	JE
Surr: Toluene-d8	96.8	78.3-116		%REC	299324	1	06/29/2020 22:34	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-085

**Client Sample ID:** AMW-4  
**Collection Date:** 6/24/2020 3:15:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 22:46	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 22:46	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 22:46	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 22:46	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:46	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 22:46	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 22:46	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 22:46	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 22:46	JT
cis-1,2-Dichloroethene	16	2.0		ug/L	299372	1	06/30/2020 22:46	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 3:15:00 PM
<b>Lab ID:</b> 2006U09-085	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 22:46	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:46	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 22:46	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Tetrachloroethene	4.3	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Trichloroethene	2.5	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:46	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 22:46	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:46	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 22:46	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299372	1	06/30/2020 22:46	JT
Surr: Dibromofluoromethane	98.9	76.4-125		%REC	299372	1	06/30/2020 22:46	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	06/30/2020 22:46	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-086

**Client Sample ID:** AMW-5  
**Collection Date:** 6/24/2020 3:35:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 23:10	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 23:10	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 23:10	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 23:10	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:10	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 23:10	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 23:10	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 23:10	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 23:10	JT
cis-1,2-Dichloroethene	2.1	2.0		ug/L	299372	1	06/30/2020 23:10	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-5
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 3:35:00 PM
<b>Lab ID:</b> 2006U09-086	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>							
					<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 23:10	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:10	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 23:10	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Tetrachloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:10	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 23:10	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:10	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 23:10	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299372	1	06/30/2020 23:10	JT
Surr: Dibromofluoromethane	97	76.4-125		%REC	299372	1	06/30/2020 23:10	JT
Surr: Toluene-d8	99.6	78.3-116		%REC	299372	1	06/30/2020 23:10	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-087

**Client Sample ID:** AMW-14  
**Collection Date:** 6/24/2020 3:55:00 PM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 23:33	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 23:33	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 23:33	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 23:33	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:33	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 23:33	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 23:33	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 23:33	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 23:33	JT
cis-1,2-Dichloroethene	2.7	2.0		ug/L	299372	1	06/30/2020 23:33	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-14
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/24/2020 3:55:00 PM
<b>Lab ID:</b> 2006U09-087	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 23:33	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:33	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 23:33	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Tetrachloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:33	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 23:33	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:33	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 23:33	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299372	1	06/30/2020 23:33	JT
Surr: Dibromofluoromethane	98.6	76.4-125		%REC	299372	1	06/30/2020 23:33	JT
Surr: Toluene-d8	102	78.3-116		%REC	299372	1	06/30/2020 23:33	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-6
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 8:10:00 AM
<b>Lab ID:</b> 2006U09-088	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299233	1	06/30/2020 19:34	AS
Arsenic	BRL	0.0100		mg/L	299233	1	06/30/2020 19:34	AS
Barium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:34	AS
Beryllium	BRL	0.00300		mg/L	299233	1	06/30/2020 19:34	AS
Cadmium	BRL	0.00500		mg/L	299233	1	06/30/2020 19:34	AS
Chromium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:34	AS
Cobalt	BRL	0.0400		mg/L	299233	1	06/30/2020 19:34	AS
Copper	BRL	0.0200		mg/L	299233	1	06/30/2020 19:34	AS
Lead	BRL	0.0150		mg/L	299233	1	06/30/2020 19:34	AS
Nickel	BRL	0.0200		mg/L	299233	1	06/30/2020 19:34	AS
Selenium	BRL	0.0100		mg/L	299233	1	06/30/2020 19:34	AS
Silver	BRL	0.0100		mg/L	299233	1	06/30/2020 19:34	AS
Thallium	BRL	0.00200		mg/L	299233	1	06/30/2020 19:34	AS
Vanadium	BRL	0.0200		mg/L	299233	1	06/30/2020 19:34	AS
Zinc	BRL	0.0200		mg/L	299233	1	06/30/2020 19:34	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-7
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 8:15:00 AM
<b>Lab ID:</b> 2006U09-089	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 19:59	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 19:59	AS
Barium	0.0364	0.0200		mg/L	299234	1	06/30/2020 19:59	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 19:59	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 19:59	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 19:59	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 19:59	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 19:59	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 19:59	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 19:59	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 19:59	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 19:59	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 19:59	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 19:59	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 19:59	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 8:20:00 AM
<b>Lab ID:</b> 2006U09-090	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:31	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:31	AS
Barium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:31	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:31	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:31	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:31	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:31	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:31	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:31	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:31	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:31	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:31	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:31	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:31	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 20:31	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-12A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 8:25:00 AM
<b>Lab ID:</b> 2006U09-091	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:35	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:35	AS
Barium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:35	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:35	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:35	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:35	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:35	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:35	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:35	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:35	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:35	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:35	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:35	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:35	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 20:35	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-11
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:00:00 AM
<b>Lab ID:</b> 2006U09-092	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:38	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:38	AS
Barium	0.0259	0.0200		mg/L	299234	1	06/30/2020 20:38	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:38	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:38	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:38	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:38	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:38	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:38	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:38	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:38	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:38	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:38	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:38	AS
Zinc	0.0400	0.0200		mg/L	299234	1	06/30/2020 20:38	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:05:00 AM
<b>Lab ID:</b> 2006U09-093	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:42	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:42	AS
Barium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:42	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:42	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:42	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:42	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:42	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:42	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:42	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:42	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:42	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:42	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:42	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:42	AS
Zinc	0.0279	0.0200		mg/L	299234	1	06/30/2020 20:42	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-10A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:10:00 AM
<b>Lab ID:</b> 2006U09-094	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:46	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:46	AS
Barium	0.0296	0.0200		mg/L	299234	1	06/30/2020 20:46	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:46	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:46	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:46	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:46	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:46	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:46	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:46	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:46	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:46	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:46	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:46	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 20:46	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> GWC-9
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 9:15:00 AM
<b>Lab ID:</b> 2006U09-095	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I METALS</b>								
	<b>SW6020B</b>				<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:49	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:49	AS
Barium	0.0785	0.0200		mg/L	299234	1	06/30/2020 20:49	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:49	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:49	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:49	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:49	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:49	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:49	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:49	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:49	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:49	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:49	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:49	AS
Zinc	0.0459	0.0200		mg/L	299234	1	06/30/2020 20:49	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-12
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-096	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 23:57	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 23:57	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 23:57	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 23:57	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:57	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 23:57	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 23:57	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 23:57	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 23:57	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-12
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:05:00 AM
<b>Lab ID:</b> 2006U09-096	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 23:57	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 23:57	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 23:57	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Tetrachloroethene	3.3	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 23:57	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 23:57	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 23:57	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 23:57	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299372	1	06/30/2020 23:57	JT
Surr: Dibromofluoromethane	97.1	76.4-125		%REC	299372	1	06/30/2020 23:57	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	06/30/2020 23:57	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-097

**Client Sample ID:** AMW-12R  
**Collection Date:** 6/25/2020 9:50:00 AM  
**Matrix:** Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1-Dichloroethane	3.2	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	07/01/2020 00:20	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	07/01/2020 00:20	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
2-Butanone	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
2-Hexanone	BRL	50		ug/L	299372	1	07/01/2020 00:20	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	07/01/2020 00:20	JT
Acetone	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Acetonitrile	BRL	200		ug/L	299372	1	07/01/2020 00:20	JT
Acrolein	BRL	50		ug/L	299372	1	07/01/2020 00:20	JT
Acrylonitrile	BRL	50		ug/L	299372	1	07/01/2020 00:20	JT
Allyl Chloride	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Benzene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Bromochloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Bromoform	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Bromomethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	07/01/2020 00:20	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Chlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Chloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Chloroform	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Chloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Chloroprene	BRL	20		ug/L	299372	1	07/01/2020 00:20	JT
cis-1,2-Dichloroethene	2.5	2.0		ug/L	299372	1	07/01/2020 00:20	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Dibromomethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b>	AMW-12R
<b>Project Name:</b>	Forsyth County- Hightower Road Landfill	<b>Collection Date:</b>	6/25/2020 9:50:00 AM
<b>Lab ID:</b>	2006U09-097	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	07/01/2020 00:20	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	07/01/2020 00:20	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	07/01/2020 00:20	JT
Naphthalene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Propionitrile	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Styrene	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Tetrachloroethene	13	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Toluene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Trichloroethene	2.8	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	07/01/2020 00:20	JT
Vinyl acetate	BRL	100		ug/L	299372	1	07/01/2020 00:20	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	07/01/2020 00:20	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	07/01/2020 00:20	JT
Surr: 4-Bromofluorobenzene	101	64-125		%REC	299372	1	07/01/2020 00:20	JT
Surr: Dibromofluoromethane	97	76.4-125		%REC	299372	1	07/01/2020 00:20	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	07/01/2020 00:20	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-8
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:40:00 AM
<b>Lab ID:</b> 2006U09-098	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	10.8	1.00		mg/L	R429121	1	06/30/2020 17:59	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 12:00	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:26	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	1.25	0.500		mg/L	R429199	1	06/30/2020 21:58	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	36.7	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:47	KB
Barium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:47	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:47	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:47	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:47	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:47	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:47	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:47	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:47	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWA-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 10:55:00 AM
<b>Lab ID:</b> 2006U09-099	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	1.33	1.00		mg/L	R429121	1	06/30/2020 18:35	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 12:03	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:29	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.19	0.500		mg/L	R429199	1	06/30/2020 22:14	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:49	KB
Barium	0.0309	0.0200		mg/L	299293	1	07/02/2020 15:49	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:49	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:49	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:49	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:49	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:49	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:49	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:49	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:25:00 AM
<b>Lab ID:</b> 2006U09-100	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	1.44	1.00		mg/L	R429121	1	06/30/2020 18:53	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 12:05	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:33	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.13	0.500		mg/L	R429199	1	06/30/2020 22:30	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:52	KB
Barium	0.0376	0.0200		mg/L	299293	1	07/02/2020 15:52	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:52	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:52	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:52	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:52	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:52	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:52	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:52	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:15:00 AM
<b>Lab ID:</b> 2006U09-101	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	1.35	1.00		mg/L	R429121	1	06/30/2020 19:11	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 12:08	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:45	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	2.12	0.500		mg/L	R429199	1	06/30/2020 22:46	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	11.7	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 15:59	KB
Barium	0.0449	0.0200		mg/L	299293	1	07/02/2020 15:59	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 15:59	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 15:59	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 15:59	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 15:59	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 15:59	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 15:59	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 15:59	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2006U09-102

**Client Sample ID:** SWC-4  
**Collection Date:** 6/25/2020 11:40:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) by SM5310B</b>								
Organic Carbon, Total	1.13	1.00		mg/L	R429121	1	06/30/2020 19:29	SK
<b>Total Cyanide (SM4500 CN-C, E) (SM4500-CN-E)</b>								
Cyanide, Total	BRL	0.010		mg/L	299397	1	07/02/2020 12:11	AA
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00050		mg/L	299405	1	07/01/2020 22:49	MM
<b>Inorganic Anions by IC E300.0</b>								
Chloride	1.94	0.500		mg/L	R429201	1	06/30/2020 23:02	IP
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R429038	1	06/30/2020 12:30	EM
<b>APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/29/2020 22:54	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/29/2020 22:54	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
2-Butanone	BRL	100		ug/L	299324	1	06/29/2020 22:54	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/29/2020 22:54	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/29/2020 22:54	JE
Acetone	BRL	100		ug/L	299324	1	06/29/2020 22:54	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/29/2020 22:54	JE
Benzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Bromoform	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Bromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/29/2020 22:54	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Chloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 11:40:00 AM
<b>Lab ID:</b> 2006U09-102	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Iodomethane	BRL	100		ug/L	299324	1	06/29/2020 22:54	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/29/2020 22:54	JE
Styrene	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Toluene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/29/2020 22:54	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/29/2020 22:54	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/29/2020 22:54	JE
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/29/2020 22:54	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/29/2020 22:54	JE
Surr: 4-Bromofluorobenzene	98.7	64-125		%REC	299324	1	06/29/2020 22:54	JE
Surr: Dibromofluoromethane	105	76.4-125		%REC	299324	1	06/29/2020 22:54	JE
Surr: Toluene-d8	95.8	78.3-116		%REC	299324	1	06/29/2020 22:54	JE
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>				
Arsenic	BRL	0.0500		mg/L	299293	1	07/02/2020 16:01	KB
Barium	0.0277	0.0200		mg/L	299293	1	07/02/2020 16:01	KB
Cadmium	BRL	0.0050		mg/L	299293	1	07/02/2020 16:01	KB
Chromium	BRL	0.0100		mg/L	299293	1	07/02/2020 16:01	KB
Lead	BRL	0.0100		mg/L	299293	1	07/02/2020 16:01	KB
Nickel	BRL	0.0200		mg/L	299293	1	07/02/2020 16:01	KB
Selenium	BRL	0.0200		mg/L	299293	1	07/02/2020 16:01	KB
Silver	BRL	0.0100		mg/L	299293	1	07/02/2020 16:01	KB
Zinc	BRL	0.0200		mg/L	299293	1	07/02/2020 16:01	KB

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-103	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 21:37	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 21:37	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 21:37	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 21:37	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 21:37	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 21:37	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 21:37	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 21:37	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 21:37	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-103	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 21:37	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 21:37	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 21:37	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Tetrachloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 21:37	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 21:37	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 21:37	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 21:37	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299372	1	06/30/2020 21:37	JT
Surr: Dibromofluoromethane	98	76.4-125		%REC	299372	1	06/30/2020 21:37	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	06/30/2020 21:37	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 1:33:00 PM
<b>Lab ID:</b> 2006U09-104	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,1,1-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,1,2-Trichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,1-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,1-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,2,3-Trichloropropane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	299324	1	06/29/2020 23:14	JE
1,2-Dibromoethane	BRL	1.0		ug/L	299324	1	06/29/2020 23:14	JE
1,2-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
1,2-Dichloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,2-Dichloropropane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
1,4-Dichlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
2-Butanone	BRL	100		ug/L	299324	1	06/29/2020 23:14	JE
2-Hexanone	BRL	50		ug/L	299324	1	06/29/2020 23:14	JE
4-Methyl-2-pentanone	BRL	50		ug/L	299324	1	06/29/2020 23:14	JE
Acetone	BRL	100		ug/L	299324	1	06/29/2020 23:14	JE
Acrylonitrile	BRL	50		ug/L	299324	1	06/29/2020 23:14	JE
Benzene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Bromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Bromodichloromethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Bromoform	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Bromomethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Carbon disulfide	BRL	5.0		ug/L	299324	1	06/29/2020 23:14	JE
Carbon tetrachloride	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Chlorobenzene	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Chloroethane	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Chloroform	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Chloromethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Dibromochloromethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Dibromomethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Ethylbenzene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Iodomethane	BRL	100		ug/L	299324	1	06/29/2020 23:14	JE
Methylene chloride	BRL	5.0		ug/L	299324	1	06/29/2020 23:14	JE
Styrene	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Tetrachloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Toluene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299324	1	06/29/2020 23:14	JE
Trichloroethene	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Trichlorofluoromethane	BRL	10		ug/L	299324	1	06/29/2020 23:14	JE
Vinyl acetate	BRL	100		ug/L	299324	1	06/29/2020 23:14	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> PH1-GWA-3A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 1:33:00 PM
<b>Lab ID:</b> 2006U09-104	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	299324	1	06/29/2020 23:14	JE
Xylenes, Total	BRL	5.0		ug/L	299324	1	06/29/2020 23:14	JE
Surr: 4-Bromofluorobenzene	99.9	64-125		%REC	299324	1	06/29/2020 23:14	JE
Surr: Dibromofluoromethane	101	76.4-125		%REC	299324	1	06/29/2020 23:14	JE
Surr: Toluene-d8	98.8	78.3-116		%REC	299324	1	06/29/2020 23:14	JE
<b>APPENDIX I METALS SW6020B</b>					<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:53	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:53	AS
Barium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:53	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:53	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:53	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:53	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:53	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:53	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:53	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:53	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:53	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:53	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:53	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:53	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 20:53	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 5:45:00 PM
<b>Lab ID:</b> 2006U09-105	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1-Dichloroethane	39	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	07/01/2020 00:43	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	07/01/2020 00:43	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
2-Butanone	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
2-Hexanone	BRL	50		ug/L	299372	1	07/01/2020 00:43	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	07/01/2020 00:43	JT
Acetone	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Acetonitrile	BRL	200		ug/L	299372	1	07/01/2020 00:43	JT
Acrolein	BRL	50		ug/L	299372	1	07/01/2020 00:43	JT
Acrylonitrile	BRL	50		ug/L	299372	1	07/01/2020 00:43	JT
Allyl Chloride	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Benzene	3.6	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Bromochloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Bromoform	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Bromomethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	07/01/2020 00:43	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Chlorobenzene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Chloroethane	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Chloroform	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Chloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Chloroprene	BRL	20		ug/L	299372	1	07/01/2020 00:43	JT
cis-1,2-Dichloroethene	110	2.0		ug/L	299372	1	07/01/2020 00:43	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Dibromomethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> AMW-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020 5:45:00 PM
<b>Lab ID:</b> 2006U09-105	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260D</b>			<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	07/01/2020 00:43	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	07/01/2020 00:43	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	07/01/2020 00:43	JT
Naphthalene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Propionitrile	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Styrene	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Tetrachloroethene	48	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Toluene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Trichloroethene	90	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	07/01/2020 00:43	JT
Vinyl acetate	BRL	100		ug/L	299372	1	07/01/2020 00:43	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	07/01/2020 00:43	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	07/01/2020 00:43	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299372	1	07/01/2020 00:43	JT
Surr: Dibromofluoromethane	97.8	76.4-125		%REC	299372	1	07/01/2020 00:43	JT
Surr: Toluene-d8	100	78.3-116		%REC	299372	1	07/01/2020 00:43	JT

<b>APPENDIX I METALS</b>		<b>SW6020B</b>			<b>(SW3005A)</b>			
Antimony	BRL	0.00600		mg/L	299234	1	06/30/2020 20:56	AS
Arsenic	BRL	0.0100		mg/L	299234	1	06/30/2020 20:56	AS
Barium	0.0627	0.0200		mg/L	299234	1	06/30/2020 20:56	AS
Beryllium	BRL	0.00300		mg/L	299234	1	06/30/2020 20:56	AS
Cadmium	BRL	0.00500		mg/L	299234	1	06/30/2020 20:56	AS
Chromium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:56	AS
Cobalt	BRL	0.0400		mg/L	299234	1	06/30/2020 20:56	AS
Copper	BRL	0.0200		mg/L	299234	1	06/30/2020 20:56	AS
Lead	BRL	0.0150		mg/L	299234	1	06/30/2020 20:56	AS
Nickel	BRL	0.0200		mg/L	299234	1	06/30/2020 20:56	AS
Selenium	BRL	0.0100		mg/L	299234	1	06/30/2020 20:56	AS
Silver	BRL	0.0100		mg/L	299234	1	06/30/2020 20:56	AS
Thallium	BRL	0.00200		mg/L	299234	1	06/30/2020 20:56	AS
Vanadium	BRL	0.0200		mg/L	299234	1	06/30/2020 20:56	AS
Zinc	BRL	0.0200		mg/L	299234	1	06/30/2020 20:56	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK 2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-106	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 22:00	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 22:00	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 22:00	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 22:00	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:00	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 22:00	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 22:00	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 22:00	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 22:00	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK 2
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-106	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 22:00	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:00	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 22:00	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Tetrachloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:00	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 22:00	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:00	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 22:00	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299372	1	06/30/2020 22:00	JT
Surr: Dibromofluoromethane	97.3	76.4-125		%REC	299372	1	06/30/2020 22:00	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	06/30/2020 22:00	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK 3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-107	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1,1-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1,2-Trichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,1-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,2,3-Trichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,2,4-Trichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	299372	1	06/30/2020 22:23	JT
1,2-Dibromoethane	BRL	1.0		ug/L	299372	1	06/30/2020 22:23	JT
1,2-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
1,2-Dichloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,3-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
1,3-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
1,4-Dichlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
2,2-Dichloropropane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
2-Butanone	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
2-Hexanone	BRL	50		ug/L	299372	1	06/30/2020 22:23	JT
4-Methyl-2-pentanone	BRL	50		ug/L	299372	1	06/30/2020 22:23	JT
Acetone	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Acetonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:23	JT
Acrolein	BRL	50		ug/L	299372	1	06/30/2020 22:23	JT
Acrylonitrile	BRL	50		ug/L	299372	1	06/30/2020 22:23	JT
Allyl Chloride	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Benzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Bromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Bromodichloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Bromoform	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Bromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Carbon disulfide	BRL	5.0		ug/L	299372	1	06/30/2020 22:23	JT
Carbon tetrachloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Chlorobenzene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Chloroethane	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Chloroform	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Chloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Chloroprene	BRL	20		ug/L	299372	1	06/30/2020 22:23	JT
cis-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
cis-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Dibromochloromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Dibromomethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Dichlorodifluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Ethyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Ethylbenzene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	F Analyzed in the lab which is a deviation from the method
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK 3
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 6/25/2020
<b>Lab ID:</b> 2006U09-107	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260D</b>				<b>(SW5030B)</b>			
Iodomethane	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Isobutyl Alcohol	BRL	200		ug/L	299372	1	06/30/2020 22:23	JT
Methyl Methacrylate	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Methylacrylonitrile	BRL	200		ug/L	299372	1	06/30/2020 22:23	JT
Methylene chloride	BRL	5.0		ug/L	299372	1	06/30/2020 22:23	JT
Naphthalene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Propionitrile	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Styrene	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Tetrachloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Toluene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
trans-1,2-Dichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
trans-1,3-Dichloropropene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Trichloroethene	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Trichlorofluoromethane	BRL	10		ug/L	299372	1	06/30/2020 22:23	JT
Vinyl acetate	BRL	100		ug/L	299372	1	06/30/2020 22:23	JT
Vinyl chloride	BRL	2.0		ug/L	299372	1	06/30/2020 22:23	JT
Xylenes, Total	BRL	5.0		ug/L	299372	1	06/30/2020 22:23	JT
Surr: 4-Bromofluorobenzene	102	64-125		%REC	299372	1	06/30/2020 22:23	JT
Surr: Dibromofluoromethane	98.3	76.4-125		%REC	299372	1	06/30/2020 22:23	JT
Surr: Toluene-d8	101	78.3-116		%REC	299372	1	06/30/2020 22:23	JT

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



**SAMPLE/COOLER RECEIPT CHECKLIST**

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 2006U09

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.2 °C    Cooler 2 Temperature 2.1 °C    Cooler 3 Temperature 1.6 °C    Cooler 4 Temperature 1.1 °C  
 14. Cooler 5 Temperature 2.3 °C    Cooler 6 Temperature \_\_\_\_\_ °C    Cooler 7 Temperature \_\_\_\_\_ °C    Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_

I certify that I have completed sections 1-15 (dated initials). BH 6/26/2020

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input checked="" type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). BH 6/26/2020

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BH 6/26/2020

# pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
20060209-013A	6020-A1-W	3	2	HNO <sub>3</sub>	MET-9AS-088	0.5 mL Pellets	1	BH	6-26	5:44
20060209-100A	SM4500	6	12	NaOH		mL 10 Pellets	12	BH	6-26	5:47
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				

\* Number of Pellets when adding NAOH

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>MB-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725346</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2,4,5-Tetrachlorobenzene	BRL	10									
1,2,4-Trichlorobenzene	BRL	10									
1,3-Dinitrobenzene	BRL	20									
1,4-Napthoquinone	BRL	10									
1-Naphthylamine	BRL	10									
2,3,4,6-Tetrachlorophenol	BRL	10									
2,4,5-Trichlorophenol	BRL	10									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	50									
2,4-Dinitrophenol	BRL	50									
2,4-Dinitrotoluene	BRL	10									
2,6-Dichlorophenol	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Acetylaminofluorene	BRL	20									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Methylnaphthalene	BRL	10									
2-Methylphenol	BRL	10									
2-Naphthylamine	BRL	10									
2-Nitroaniline	BRL	50									
2-Nitrophenol	BRL	10									
3,3'-Dichlorobenzidine	BRL	20									
3,3'-Dimethylbenzidine	BRL	20									
3,4-Methylphenol	BRL	10									
3-Methylcholanthrene	BRL	10									
3-Nitroaniline	BRL	50									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>MB-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725346</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,6-Dinitro-2-methylphenol	BRL	50									
4-Aminobiphenyl	BRL	20									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	20									
4-Chloroaniline	BRL	20									
4-Chlorophenyl phenyl ether	BRL	10									
4-Nitroaniline	BRL	20									
4-Nitrophenol	BRL	50									
5-Nitro-o-toluidine	BRL	10									
7,12-Dimethylbenz(a)anthracene	BRL	10									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Acetophenone	BRL	10									
Anthracene	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Benzyl alcohol	BRL	20									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	20									
Butyl benzyl phthalate	BRL	10									
Chlorobenzilate	BRL	10									
Chrysene	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>MB-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725346</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Diallate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Dibenzofuran	BRL	10									
Diethyl phthalate	BRL	10									
Dimethoate	BRL	20									
Dimethyl phthalate	BRL	10									
Diphenylamine	BRL	10									
Disulfoton	BRL	10									
Ethyl methanesulfonate	BRL	20									
Famphur	BRL	20									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									
Hexachloroethane	BRL	10									
Hexachloropropene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isodrin	BRL	20									
Isophorone	BRL	10									
Isosafrole	BRL	10									
Kepone	BRL	50									
Methapyrilene	BRL	20									
Methyl methanesulfonate	BRL	10									
Methyl parathion	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>MB-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725346</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

N-Nitroso-di-n-butylamine	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiethylamine	BRL	20									
N-Nitrosodimethylamine	BRL	20									
N-Nitrosodiphenylamine	BRL	50									
N-Nitrosomethylethylamine	BRL	10									
N-Nitrosopiperidine	BRL	20									
N-Nitrosopyrrolidine	BRL	40									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
O,O,O-Triethylphosphorothioate	BRL	10									
o-Toluidine	BRL	20									
p-Dimethylaminoazobenzene	BRL	10									
p-Phenylenediamine	BRL	500									
Parathion	BRL	10									
Pentachlorobenzene	BRL	10									
Pentachloronitrobenzene	BRL	20									
Pentachlorophenol	BRL	50									
Phenacetin	BRL	20									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Phorate	BRL	10									
Pronamide	BRL	10									
Pyrene	BRL	10									
Saffrole	BRL	20									
Sym-Trinitrobenzene	BRL	10									
Thionazin	BRL	20									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>MB-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725346</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2,4,6-Tribromophenol	115.9	0	100.0		116	47	127				
Surr: 2-Fluorobiphenyl	45.76	0	50.00		91.5	47.4	119				
Surr: 2-Fluorophenol	38.43	0	100.0		38.4	26.2	120				
Surr: 4-Terphenyl-d14	35.92	0	50.00		71.8	45	133				
Surr: Nitrobenzene-d5	40.15	0	50.00		80.3	41.9	121				
Surr: Phenol-d5	27.29	0	100.0		27.3	17.8	120				

Sample ID: <b>LCS-299201</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725347</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2,4-Trichlorobenzene	104.3	10	100.0		104	49.9	116				
2,4-Dinitrotoluene	89.30	10	100.0		89.3	60.1	123				
2-Chlorophenol	89.81	10	100.0		89.8	50.6	120				
4-Chloro-3-methylphenol	95.73	20	100.0		95.7	59.5	122				
4-Nitrophenol	BRL	50	100.0		28.9	20	120				
Acenaphthene	94.00	10	100.0		94.0	60.5	119				
N-Nitrosodi-n-propylamine	91.57	10	100.0		91.6	62.3	127				
Pentachlorophenol	87.89	50	100.0		87.9	50.9	120				
Phenol	34.57	10	100.0		34.6	20.1	120				
Pyrene	90.57	10	100.0		90.6	68.8	139				
Surr: 2,4,6-Tribromophenol	123.4	0	100.0		123	47	127				
Surr: 2-Fluorobiphenyl	50.10	0	50.00		100	47.4	119				
Surr: 2-Fluorophenol	52.43	0	100.0		52.4	26.2	120				
Surr: 4-Terphenyl-d14	40.99	0	50.00		82.0	45	133				
Surr: Nitrobenzene-d5	43.31	0	50.00		86.6	41.9	121				
Surr: Phenol-d5	38.13	0	100.0		38.1	17.8	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>2006V06-008DMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725727</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2,4-Trichlorobenzene	90.70	10	100.0		90.7	46	120				
2,4-Dinitrotoluene	81.69	10	100.0		81.7	48.9	120				
2-Chlorophenol	79.77	10	100.0		79.8	46.5	120				
4-Chloro-3-methylphenol	89.22	20	100.0		89.2	47.8	119				
4-Nitrophenol	BRL	50	100.0		32.3	24.1	120				
Acenaphthene	85.25	10	100.0		85.2	48.2	120				
N-Nitrosodi-n-propylamine	83.06	10	100.0		83.1	52.1	120				
Pentachlorophenol	81.27	50	100.0		81.3	42.4	120				
Phenol	35.10	10	100.0		35.1	24.7	120				
Pyrene	85.76	10	100.0		85.8	55.5	120				
Surr: 2,4,6-Tribromophenol	115.6	0	100.0		116	47	127				
Surr: 2-Fluorobiphenyl	43.61	0	50.00		87.2	47.4	119				
Surr: 2-Fluorophenol	48.32	0	100.0		48.3	26.2	120				
Surr: 4-Terphenyl-d14	41.46	0	50.00		82.9	45	133				
Surr: Nitrobenzene-d5	38.80	0	50.00		77.6	41.9	121				
Surr: Phenol-d5	38.00	0	100.0		38.0	17.8	120				

Sample ID: <b>2006V06-008DMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725728</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2,4-Trichlorobenzene	78.76	10	100.0		78.8	46	120	90.70	14.1	30.9	
2,4-Dinitrotoluene	67.48	10	100.0		67.5	48.9	120	81.69	19.1	28.3	
2-Chlorophenol	68.57	10	100.0		68.6	46.5	120	79.77	15.1	26.3	
4-Chloro-3-methylphenol	75.32	20	100.0		75.3	47.8	119	89.22	16.9	29.2	
4-Nitrophenol	BRL	50	100.0		25.2	24.1	120	32.27	0	39.1	
Acenaphthene	72.41	10	100.0		72.4	48.2	120	85.25	16.3	28.3	
N-Nitrosodi-n-propylamine	69.88	10	100.0		69.9	52.1	120	83.06	17.2	29.2	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299201**

Sample ID: <b>2006V06-008DMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>428999</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIXII-SEMIVOLATILE ORGANICS SW8270E</b>	BatchID: <b>299201</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9725728</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Pentachlorophenol	68.15	50	100.0		68.2	42.4	120	81.27	17.6	20	
Phenol	32.18	10	100.0		32.2	24.7	120	35.10	8.68	33.4	
Pyrene	72.22	10	100.0		72.2	55.5	120	85.76	17.1	25.1	
Surr: 2,4,6-Tribromophenol	94.23	0	100.0		94.2	47	127	115.6	0	0	
Surr: 2-Fluorobiphenyl	36.50	0	50.00		73.0	47.4	119	43.61	0	0	
Surr: 2-Fluorophenol	42.93	0	100.0		42.9	26.2	120	48.32	0	0	
Surr: 4-Terphenyl-d14	34.94	0	50.00		69.9	45	133	41.46	0	0	
Surr: Nitrobenzene-d5	32.38	0	50.00		64.8	41.9	121	38.80	0	0	
Surr: Phenol-d5	33.99	0	100.0		34.0	17.8	120	38.00	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299223**

Sample ID: <b>MB-299223</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/27/2020</b>	Seq No: <b>9723159</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299223**

Sample ID: <b>MB-299223</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/27/2020</b>	Seq No: <b>9723159</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	51.84	0	50.00		104	64	125				
Surr: Dibromofluoromethane	48.70	0	50.00		97.4	76.4	125				
Surr: Toluene-d8	50.54	0	50.00		101	78.3	116				

Sample ID: <b>LCS-299223</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/27/2020</b>	Seq No: <b>9723213</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299223**

Sample ID: <b>LCS-299223</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/27/2020</b>	Seq No: <b>9723213</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.78	5.0	50.00		106	69.2	141				
Benzene	52.61	5.0	50.00		105	72.3	126				
Chlorobenzene	53.11	5.0	50.00		106	73.3	135				
Toluene	54.28	5.0	50.00		109	70.5	128				
Trichloroethene	53.95	5.0	50.00		108	70.3	133				
Surr: 4-Bromofluorobenzene	51.01	0	50.00		102	64	125				
Surr: Dibromofluoromethane	51.11	0	50.00		102	76.4	125				
Surr: Toluene-d8	50.99	0	50.00		102	78.3	116				

Sample ID: <b>2006R90-001AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/28/2020</b>	Seq No: <b>9723181</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.85	5.0	50.00		102	63.8	146				
Benzene	53.39	5.0	50.00		107	70.2	137				
Chlorobenzene	52.34	5.0	50.00		105	72.7	141				
Toluene	54.90	5.0	50.00		110	67	141				
Trichloroethene	54.08	5.0	50.00		108	69.3	141				
Surr: 4-Bromofluorobenzene	51.38	0	50.00		103	64	125				
Surr: Dibromofluoromethane	50.99	0	50.00		102	76.4	125				
Surr: Toluene-d8	51.92	0	50.00		104	78.3	116				

Sample ID: <b>2006R90-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/28/2020</b>	Seq No: <b>9723182</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.72	5.0	50.00		93.4	63.8	146	50.85	8.47	20.8	
Benzene	50.60	5.0	50.00		101	70.2	137	53.39	5.37	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299223**

Sample ID: <b>2006R90-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/27/2020</b>	Run No: <b>428917</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299223</b>	Analysis Date: <b>06/28/2020</b>	Seq No: <b>9723182</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	50.06	5.0	50.00		100	72.7	141	52.34	4.45	20	
Toluene	51.27	5.0	50.00		103	67	141	54.90	6.84	20	
Trichloroethene	50.53	5.0	50.00		101	69.3	141	54.08	6.79	17.9	
Surr: 4-Bromofluorobenzene	50.91	0	50.00		102	64	125	51.38	0	0	
Surr: Dibromofluoromethane	51.15	0	50.00		102	76.4	125	50.99	0	0	
Surr: Toluene-d8	51.36	0	50.00		103	78.3	116	51.92	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299232**

Sample ID: <b>MB-299232</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429095</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299232</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9727850</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00300									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0400									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-299232</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429095</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299232</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9727851</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1010	0.00600	0.1000		101	80	120				
Arsenic	0.1086	0.0100	0.1000		109	80	120				
Barium	0.1031	0.0200	0.1000		103	80	120				
Beryllium	0.1083	0.00400	0.1000		108	80	120				
Cadmium	0.1030	0.00500	0.1000		103	80	120				
Chromium	0.1105	0.0200	0.1000		110	80	120				
Cobalt	0.1111	0.0500	0.1000		111	80	120				
Copper	0.1060	0.0200	0.1000		106	80	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299232**

Sample ID: <b>LCS-299232</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429095</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299232</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9727851</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.1087	0.0100	0.1000		109	80	120				
Nickel	0.1133	0.0400	0.1000		113	80	120				
Selenium	0.09866	0.0500	0.1000		98.7	80	120				
Silver	0.01126	0.00500	0.0100		113	80	120				
Thallium	0.1144	0.00200	0.1000		114	80	120				
Vanadium	0.1078	0.0500	0.1000		108	80	120				
Zinc	0.1009	0.0200	0.1000		101	80	120				

Sample ID: <b>2006U09-009AMS</b>	Client ID: <b>GWA-2</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429095</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299232</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9727853</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09590	0.00600	0.1000		95.9	75	125				
Arsenic	0.1011	0.0100	0.1000		101	75	125				
Barium	0.1163	0.0200	0.1000	0.02001	96.3	75	125				
Beryllium	0.1020	0.00400	0.1000		102	75	125				
Cadmium	0.09743	0.00500	0.1000		97.4	75	125				
Chromium	0.1061	0.0200	0.1000		106	75	125				
Cobalt	0.1066	0.0500	0.1000	0.0002936	106	75	125				
Copper	0.1041	0.0200	0.1000	0.002520	102	75	125				
Lead	0.1050	0.0100	0.1000		105	75	125				
Nickel	0.1092	0.0400	0.1000	0.0002632	109	75	125				
Selenium	0.09546	0.0500	0.1000		95.5	75	125				
Silver	0.01052	0.00500	0.0100		105	75	125				
Thallium	0.1098	0.00200	0.1000	0.0005090	109	75	125				
Vanadium	0.1049	0.0500	0.1000		105	75	125				
Zinc	0.1093	0.0200	0.1000	0.01456	94.7	75	125				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299232**

Sample ID: <b>2006U09-009AMSD</b>	Client ID: <b>GWA-2</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429095</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299232</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9727854</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09635	0.00600	0.1000		96.4	75	125	0.09590	0.475	20	
Arsenic	0.1027	0.0100	0.1000		103	75	125	0.1011	1.56	20	
Barium	0.1157	0.0200	0.1000	0.02001	95.7	75	125	0.1163	0.541	20	
Beryllium	0.1048	0.00400	0.1000		105	75	125	0.1020	2.72	20	
Cadmium	0.09554	0.00500	0.1000		95.5	75	125	0.09743	1.96	20	
Chromium	0.1056	0.0200	0.1000		106	75	125	0.1061	0.507	20	
Cobalt	0.1056	0.0500	0.1000	0.0002936	105	75	125	0.1066	0.882	20	
Copper	0.1056	0.0200	0.1000	0.002520	103	75	125	0.1041	1.43	20	
Lead	0.1060	0.0100	0.1000		106	75	125	0.1050	1.01	20	
Nickel	0.1090	0.0400	0.1000	0.0002632	109	75	125	0.1092	0.256	20	
Selenium	0.09524	0.0500	0.1000		95.2	75	125	0.09546	0.232	20	
Silver	0.01065	0.00500	0.0100		107	75	125	0.01052	1.25	20	
Thallium	0.1099	0.00200	0.1000	0.0005090	109	75	125	0.1098	0.093	20	
Vanadium	0.1036	0.0500	0.1000		104	75	125	0.1049	1.26	20	
Zinc	0.1102	0.0200	0.1000	0.01456	95.6	75	125	0.1093	0.828	20	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299233**

Sample ID: <b>MB-299233</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429143</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299233</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729222</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00300									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0400									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-299233</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429143</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299233</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729223</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.08754	0.00600	0.1000		87.5	80	120				
Arsenic	0.09131	0.0100	0.1000		91.3	80	120				
Barium	0.08835	0.0200	0.1000		88.3	80	120				
Beryllium	0.09930	0.00400	0.1000		99.3	80	120				
Cadmium	0.08468	0.00500	0.1000		84.7	80	120				
Chromium	0.09162	0.0200	0.1000		91.6	80	120				
Cobalt	0.09335	0.0500	0.1000		93.3	80	120				
Copper	0.09558	0.0200	0.1000		95.6	80	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299233**

Sample ID: <b>LCS-299233</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429143</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299233</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729223</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.08555	0.0100	0.1000		85.5	80	120				
Nickel	0.09391	0.0400	0.1000		93.9	80	120				
Selenium	0.09563	0.0500	0.1000		95.6	80	120				
Silver	0.009116	0.00500	0.0100		91.2	80	120				
Thallium	0.08483	0.00200	0.1000		84.8	80	120				
Vanadium	0.09324	0.0500	0.1000		93.2	80	120				
Zinc	0.09347	0.0200	0.1000		93.5	80	120				

Sample ID: <b>2006U09-049BMS</b>	Client ID: <b>GWC-23</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429143</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299233</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729225</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1030	0.00600	0.1000		103	75	125				
Arsenic	0.1067	0.0100	0.1000		107	75	125				
Barium	0.1162	0.0200	0.1000	0.01584	100	75	125				
Beryllium	0.1156	0.00400	0.1000		116	75	125				
Cadmium	0.09722	0.00500	0.1000		97.2	75	125				
Chromium	0.1102	0.0200	0.1000		110	75	125				
Cobalt	0.1086	0.0500	0.1000		109	75	125				
Copper	0.1137	0.0200	0.1000	0.001955	112	75	125				
Lead	0.1014	0.0100	0.1000		101	75	125				
Nickel	0.1111	0.0400	0.1000	0.0002421	111	75	125				
Selenium	0.1015	0.0500	0.1000		101	75	125				
Silver	0.01082	0.00500	0.0100		108	75	125				
Thallium	0.09813	0.00200	0.1000		98.1	75	125				
Vanadium	0.1086	0.0500	0.1000		109	75	125				
Zinc	0.1181	0.0200	0.1000	0.009607	109	75	125				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299233**

Sample ID: <b>2006U09-049BMSD</b>	Client ID: <b>GWC-23</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429143</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299233</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729226</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1026	0.00600	0.1000		103	75	125	0.1030	0.390	20	
Arsenic	0.1048	0.0100	0.1000		105	75	125	0.1067	1.83	20	
Barium	0.1155	0.0200	0.1000	0.01584	99.7	75	125	0.1162	0.563	20	
Beryllium	0.1147	0.00400	0.1000		115	75	125	0.1156	0.794	20	
Cadmium	0.09519	0.00500	0.1000		95.2	75	125	0.09722	2.11	20	
Chromium	0.1067	0.0200	0.1000		107	75	125	0.1102	3.28	20	
Cobalt	0.1079	0.0500	0.1000		108	75	125	0.1086	0.694	20	
Copper	0.1127	0.0200	0.1000	0.001955	111	75	125	0.1137	0.883	20	
Lead	0.1001	0.0100	0.1000		100	75	125	0.1014	1.33	20	
Nickel	0.1079	0.0400	0.1000	0.0002421	108	75	125	0.1111	2.93	20	
Selenium	0.1061	0.0500	0.1000		106	75	125	0.1015	4.46	20	
Silver	0.01026	0.00500	0.0100		103	75	125	0.01082	5.34	20	
Thallium	0.09473	0.00200	0.1000		94.7	75	125	0.09813	3.52	20	
Vanadium	0.1076	0.0500	0.1000		108	75	125	0.1086	0.933	20	
Zinc	0.1142	0.0200	0.1000	0.009607	105	75	125	0.1181	3.43	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299234**

Sample ID: <b>MB-299234</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429144</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299234</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729270</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00300									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0400									
Copper	BRL	0.0200									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.00500									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-299234</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429144</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299234</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729271</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09880	0.00600	0.1000		98.8	80	120				
Arsenic	0.1016	0.0100	0.1000		102	80	120				
Barium	0.10000	0.0200	0.1000		100.0	80	120				
Beryllium	0.1065	0.00400	0.1000		107	80	120				
Cadmium	0.09553	0.00500	0.1000		95.5	80	120				
Chromium	0.1027	0.0200	0.1000		103	80	120				
Cobalt	0.1036	0.0500	0.1000		104	80	120				
Copper	0.1075	0.0200	0.1000		108	80	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299234**

Sample ID: <b>LCS-299234</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429144</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299234</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729271</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	0.09858	0.0100	0.1000		98.6	80	120				
Nickel	0.1044	0.0400	0.1000	0.0004369	104	80	120				
Selenium	0.1023	0.0500	0.1000		102	80	120				
Silver	0.01008	0.00500	0.0100		101	80	120				
Thallium	0.09520	0.00200	0.1000		95.2	80	120				
Vanadium	0.1031	0.0500	0.1000		103	80	120				
Zinc	0.1039	0.0200	0.1000		104	80	120				

Sample ID: <b>2006U09-089AMS</b>	Client ID: <b>GWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429144</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299234</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729277</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.09937	0.00600	0.1000		99.4	75	125				
Arsenic	0.1024	0.0100	0.1000		102	75	125				
Barium	0.1421	0.0200	0.1000	0.03640	106	75	125				
Beryllium	0.1124	0.00400	0.1000	0.0003048	112	75	125				
Cadmium	0.09718	0.00500	0.1000	0.0001504	97.0	75	125				
Chromium	0.1070	0.0200	0.1000		107	75	125				
Cobalt	0.1094	0.0500	0.1000	0.0005467	109	75	125				
Copper	0.1069	0.0200	0.1000		107	75	125				
Lead	0.1012	0.0100	0.1000		101	75	125				
Nickel	0.1100	0.0400	0.1000	0.001731	108	75	125				
Selenium	0.1006	0.0500	0.1000		101	75	125				
Silver	0.01050	0.00500	0.0100		105	75	125				
Thallium	0.1009	0.00200	0.1000	0.0006232	100	75	125				
Vanadium	0.1057	0.0500	0.1000		106	75	125				
Zinc	0.1176	0.0200	0.1000	0.01592	102	75	125				

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299234**

Sample ID: <b>2006U09-089AMSD</b>	Client ID: <b>GWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429144</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I METALS SW6020B</b>	BatchID: <b>299234</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729280</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09793	0.00600	0.1000		97.9	75	125	0.09937	1.47	20	
Arsenic	0.1023	0.0100	0.1000		102	75	125	0.1024	0.034	20	
Barium	0.1407	0.0200	0.1000	0.03640	104	75	125	0.1421	0.995	20	
Beryllium	0.1110	0.00400	0.1000	0.0003048	111	75	125	0.1124	1.21	20	
Cadmium	0.09465	0.00500	0.1000	0.0001504	94.5	75	125	0.09718	2.64	20	
Chromium	0.1038	0.0200	0.1000		104	75	125	0.1070	3.04	20	
Cobalt	0.1061	0.0500	0.1000	0.0005467	106	75	125	0.1094	3.12	20	
Copper	0.1037	0.0200	0.1000		104	75	125	0.1069	3.00	20	
Lead	0.1001	0.0100	0.1000		100	75	125	0.1012	1.17	20	
Nickel	0.1089	0.0400	0.1000	0.001731	107	75	125	0.1100	1.03	20	
Selenium	0.09982	0.0500	0.1000		99.8	75	125	0.1006	0.731	20	
Silver	0.01028	0.00500	0.0100		103	75	125	0.01050	2.12	20	
Thallium	0.1003	0.00200	0.1000	0.0006232	99.7	75	125	0.1009	0.581	20	
Vanadium	0.1033	0.0500	0.1000		103	75	125	0.1057	2.34	20	
Zinc	0.1155	0.0200	0.1000	0.01592	99.5	75	125	0.1176	1.87	20	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299293**

Sample ID: <b>MB-299293</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429315</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>299293</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9733624</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-299293</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429315</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>299293</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9733625</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.028	0.0500	1.000		103	80	120				
Barium	1.012	0.0200	1.000		101	80	120				
Cadmium	1.011	0.0050	1.000		101	80	120				
Chromium	0.9919	0.0100	1.000		99.2	80	120				
Lead	0.9875	0.0100	1.000		98.8	80	120				
Nickel	1.038	0.0200	1.000		104	80	120				
Selenium	0.9933	0.0200	1.000		99.3	80	120				
Silver	0.1024	0.0100	0.1000		102	80	120				
Zinc	1.018	0.0200	1.000		102	80	120				

Sample ID: <b>2006U09-065DMS</b>	Client ID: <b>SWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429315</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>299293</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9733627</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299293**

Sample ID: <b>2006U09-065DMS</b>	Client ID: <b>SWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429315</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>299293</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9733627</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.012	0.0500	1.000		101	75	125				
Barium	1.009	0.0200	1.000	0.01540	99.4	75	125				
Cadmium	0.9947	0.0050	1.000		99.5	75	125				
Chromium	0.9762	0.0100	1.000		97.6	75	125				
Lead	0.9763	0.0100	1.000	0.007960	96.8	75	125				
Nickel	1.019	0.0200	1.000	0.003570	102	75	125				
Selenium	0.9813	0.0200	1.000		98.1	75	125				
Silver	0.1004	0.0100	0.1000		100	75	125				
Zinc	1.000	0.0200	1.000		100	75	125				

Sample ID: <b>2006U09-065DMSD</b>	Client ID: <b>SWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429315</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>299293</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9733630</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.007	0.0500	1.000		101	75	125	1.012	0.543	20	
Barium	1.011	0.0200	1.000	0.01540	99.6	75	125	1.009	0.189	20	
Cadmium	0.9958	0.0050	1.000		99.6	75	125	0.9947	0.109	20	
Chromium	0.9771	0.0100	1.000		97.7	75	125	0.9762	0.084	20	
Lead	0.9756	0.0100	1.000	0.007960	96.8	75	125	0.9763	0.071	20	
Nickel	1.021	0.0200	1.000	0.003570	102	75	125	1.019	0.258	20	
Selenium	0.9852	0.0200	1.000		98.5	75	125	0.9813	0.393	20	
Silver	0.1007	0.0100	0.1000		101	75	125	0.1004	0.269	20	
Zinc	1.007	0.0200	1.000		101	75	125	1.000	0.703	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299303**

Sample ID: <b>MB-299303</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726460</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acetonitrile	BRL	100									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Allyl Chloride	BRL	10									
Benzene	BRL	1.0									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299303**

Sample ID: <b>MB-299303</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726460</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
Chloroprene	BRL	20									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethyl Methacrylate	BRL	10									
Ethylbenzene	BRL	1.0									
Iodomethane	BRL	2.0									
Isobutyl Alcohol	BRL	200									
Methyl Methacrylate	BRL	10									
Methylacrylonitrile	BRL	200									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
Propionitrile	BRL	100									
Styrene	BRL	1.0									
Tetrachloroethene	BRL	1.0									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299303**

Sample ID: <b>MB-299303</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726460</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	51.14	0	50.00		102	64	125				
Surr: Dibromofluoromethane	48.23	0	50.00		96.5	76.4	125				
Surr: Toluene-d8	50.13	0	50.00		100	78.3	116				

Sample ID: <b>LCS-299303</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726458</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.42	2.0	50.00		94.8	69	136				
Benzene	50.75	1.0	50.00		102	73.7	126				
Chlorobenzene	49.45	1.0	50.00		98.9	73.5	124				
Toluene	51.12	1.0	50.00		102	76.8	125				
Trichloroethene	49.89	1.0	50.00		99.8	70.9	124				
Surr: 4-Bromofluorobenzene	50.61	0	50.00		101	64	125				
Surr: Dibromofluoromethane	50.47	0	50.00		101	76.4	125				
Surr: Toluene-d8	51.16	0	50.00		102	78.3	116				

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299303**

Sample ID: <b>2006U09-024AMS</b>	Client ID: <b>AMW-2</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>MS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728739</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.21	2.0	50.00		108	63.8	146				
Benzene	53.96	1.0	50.00		108	70.2	137				
Chlorobenzene	53.13	1.0	50.00		106	72.7	141				
Toluene	54.95	1.0	50.00		110	67	141				
Trichloroethene	54.33	1.0	50.00		109	69.3	141				
Surr: 4-Bromofluorobenzene	50.11	0	50.00		100	64	125				
Surr: Dibromofluoromethane	50.41	0	50.00		101	76.4	125				
Surr: Toluene-d8	50.92	0	50.00		102	78.3	116				

Sample ID: <b>2006U09-024AMSD</b>	Client ID: <b>AMW-2</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429050</b>							
SampleType: <b>MSD</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299303</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728740</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.26	2.0	50.00		103	63.8	146	54.21	5.59	20.8	
Benzene	52.68	1.0	50.00		105	70.2	137	53.96	2.40	20	
Chlorobenzene	50.70	1.0	50.00		101	72.7	141	53.13	4.68	20	
Toluene	53.26	1.0	50.00		107	67	141	54.95	3.12	20	
Trichloroethene	52.59	1.0	50.00		105	69.3	141	54.33	3.25	17.9	
Surr: 4-Bromofluorobenzene	50.70	0	50.00		101	64	125	50.11	0	0	
Surr: Dibromofluoromethane	51.08	0	50.00		102	76.4	125	50.41	0	0	
Surr: Toluene-d8	51.20	0	50.00		102	78.3	116	50.92	0	0	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299305**

Sample ID: <b>MB-299305</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9726805</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299305**

Sample ID: <b>MB-299305</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9726805</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	49.99	0	50.00		100.0	64	125				
Surr: Dibromofluoromethane	49.59	0	50.00		99.2	76.4	125				
Surr: Toluene-d8	51.58	0	50.00		103	78.3	116				

Sample ID: <b>LCS-299305</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9726827</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299305**

Sample ID: <b>LCS-299305</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9726827</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	18.57	5.0	20.00		92.8	69.2	141				
Benzene	18.22	5.0	20.00		91.1	72.3	126				
Chlorobenzene	18.73	5.0	20.00		93.6	73.3	135				
Toluene	19.04	5.0	20.00		95.2	70.5	128				
Trichloroethene	18.67	5.0	20.00		93.4	70.3	133				
Surr: 4-Bromofluorobenzene	49.29	0	50.00		98.6	64	125				
Surr: Dibromofluoromethane	49.58	0	50.00		99.2	76.4	125				
Surr: Toluene-d8	51.31	0	50.00		103	78.3	116				

Sample ID: <b>2006U09-019AMS</b>	Client ID: <b>GWA-1A</b>	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729134</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.08	5.0	20.00		115	63.8	146				
Benzene	19.76	5.0	20.00		98.8	70.2	137				
Chlorobenzene	19.18	5.0	20.00		95.9	72.7	141				
Toluene	20.23	5.0	20.00		101	67	141				
Trichloroethene	19.59	5.0	20.00		98.0	69.3	141				
Surr: 4-Bromofluorobenzene	49.43	0	50.00		98.9	64	125				
Surr: Dibromofluoromethane	50.02	0	50.00		100	76.4	125				
Surr: Toluene-d8	52.31	0	50.00		105	78.3	116				

Sample ID: <b>2006U09-019AMSD</b>	Client ID: <b>GWA-1A</b>	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729135</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	22.89	5.0	20.00		114	63.8	146	23.08	0.827	20.8	
Benzene	20.23	5.0	20.00		101	70.2	137	19.76	2.35	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299305**

Sample ID: <b>2006U09-019AMSD</b>	Client ID: <b>GWA-1A</b>	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429053</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299305</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729135</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	19.36	5.0	20.00		96.8	72.7	141	19.18	0.934	20	
Toluene	20.35	5.0	20.00		102	67	141	20.23	0.591	20	
Trichloroethene	20.02	5.0	20.00		100	69.3	141	19.59	2.17	17.9	
Surr: 4-Bromofluorobenzene	50.06	0	50.00		100	64	125	49.43	0	0	
Surr: Dibromofluoromethane	50.80	0	50.00		102	76.4	125	50.02	0	0	
Surr: Toluene-d8	51.89	0	50.00		104	78.3	116	52.31	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299324**

Sample ID: <b>MB-299324</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727657</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299324**

Sample ID: <b>MB-299324</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727657</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	49.68	0	50.00		99.4	64	125				
Surr: Dibromofluoromethane	53.32	0	50.00		107	76.4	125				
Surr: Toluene-d8	48.04	0	50.00		96.1	78.3	116				

Sample ID: <b>LCS-299324</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727658</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.74	5.0	50.00		95.5	69.2	141				
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**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299324**

Sample ID: <b>LCS-299324</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727658</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	47.49	5.0	50.00		95.0	72.3	126				
Chlorobenzene	52.46	5.0	50.00		105	73.3	135				
Toluene	50.78	5.0	50.00		102	70.5	128				
Trichloroethene	55.93	5.0	50.00		112	70.3	133				
Surr: 4-Bromofluorobenzene	48.06	0	50.00		96.1	64	125				
Surr: Dibromofluoromethane	50.98	0	50.00		102	76.4	125				
Surr: Toluene-d8	50.44	0	50.00		101	78.3	116				

Sample ID: <b>2006U77-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727660</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	49.58	5.0	50.00		99.2	63.8	146				
Benzene	48.68	5.0	50.00		97.4	70.2	137				
Chlorobenzene	52.45	5.0	50.00		105	72.7	141				
Toluene	50.16	5.0	50.00		100	67	141				
Trichloroethene	57.36	5.0	50.00		115	69.3	141				
Surr: 4-Bromofluorobenzene	47.96	0	50.00		95.9	64	125				
Surr: Dibromofluoromethane	53.38	0	50.00		107	76.4	125				
Surr: Toluene-d8	49.46	0	50.00		98.9	78.3	116				

Sample ID: <b>2006U77-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727661</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.13	5.0	50.00		94.3	63.8	146	49.58	5.07	20.8	
Benzene	46.90	5.0	50.00		93.8	70.2	137	48.68	3.72	20	
Chlorobenzene	51.12	5.0	50.00		102	72.7	141	52.45	2.57	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299324**

Sample ID: <b>2006U77-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/29/2020</b>	Run No: <b>429091</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299324</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9727661</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	48.90	5.0	50.00		97.8	67	141	50.16	2.54	20	
Trichloroethene	55.44	5.0	50.00		111	69.3	141	57.36	3.40	17.9	
Surr: 4-Bromofluorobenzene	48.50	0	50.00		97.0	64	125	47.96	0	0	
Surr: Dibromofluoromethane	52.84	0	50.00		106	76.4	125	53.38	0	0	
Surr: Toluene-d8	49.42	0	50.00		98.8	78.3	116	49.46	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299366**

Sample ID: <b>MB-299366</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728822</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299366**

Sample ID: <b>MB-299366</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728822</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	50.37	0	50.00		101	64	125				
Surr: Dibromofluoromethane	50.36	0	50.00		101	76.4	125				
Surr: Toluene-d8	49.64	0	50.00		99.3	78.3	116				

Sample ID: <b>LCS-299366</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728865</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299366**

Sample ID: <b>LCS-299366</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728865</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	19.87	5.0	20.00		99.4	69.2	141				
Benzene	20.54	5.0	20.00		103	72.3	126				
Chlorobenzene	20.27	5.0	20.00		101	73.3	135				
Toluene	20.18	5.0	20.00		101	70.5	128				
Trichloroethene	21.69	5.0	20.00		108	70.3	133				
Surr: 4-Bromofluorobenzene	49.97	0	50.00		99.9	64	125				
Surr: Dibromofluoromethane	51.05	0	50.00		102	76.4	125				
Surr: Toluene-d8	49.35	0	50.00		98.7	78.3	116				

Sample ID: <b>2006V98-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732318</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1982	500	5000		39.6	63.8	146				S
Benzene	2013	500	5000		40.3	70.2	137				S
Chlorobenzene	1979	500	5000		39.6	72.7	141				S
Toluene	1947	500	5000		38.9	67	141				S
Trichloroethene	2060	500	5000		41.2	69.3	141				S
Surr: 4-Bromofluorobenzene	4931	0	5000		98.6	64	125				
Surr: Dibromofluoromethane	5124	0	5000		102	76.4	125				
Surr: Toluene-d8	4934	0	5000		98.7	78.3	116				

Sample ID: <b>2006V98-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732319</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1876	500	5000		37.5	63.8	146	1982	5.50	20.8	S
Benzene	1961	500	5000		39.2	70.2	137	2013	2.62	20	S

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299366**

Sample ID: <b>2006V98-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429130</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>299366</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732319</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	1927	500	5000		38.5	72.7	141	1979	2.66	20	S
Toluene	1893	500	5000		37.9	67	141	1947	2.81	20	S
Trichloroethene	1983	500	5000		39.7	69.3	141	2060	3.81	17.9	S
Surr: 4-Bromofluorobenzene	4954	0	5000		99.1	64	125	4931	0	0	
Surr: Dibromofluoromethane	5097	0	5000		102	76.4	125	5124	0	0	
Surr: Toluene-d8	4891	0	5000		97.8	78.3	116	4934	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299372**

Sample ID: <b>MB-299372</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729015</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acetonitrile	BRL	100									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Allyl Chloride	BRL	10									
Benzene	BRL	1.0									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299372**

Sample ID: <b>MB-299372</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729015</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
Chloroprene	BRL	20									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethyl Methacrylate	BRL	10									
Ethylbenzene	BRL	1.0									
Iodomethane	BRL	2.0									
Isobutyl Alcohol	BRL	200									
Methyl Methacrylate	BRL	10									
Methylacrylonitrile	BRL	200									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
Propionitrile	BRL	100									
Styrene	BRL	1.0									
Tetrachloroethene	BRL	1.0									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299372**

Sample ID: <b>MB-299372</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729015</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	51.25	0	50.00		102	64	125				
Surr: Dibromofluoromethane	48.26	0	50.00		96.5	76.4	125				
Surr: Toluene-d8	50.30	0	50.00		101	78.3	116				

Sample ID: <b>LCS-299372</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9729112</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.75	2.0	50.00		104	69	136				
Benzene	53.19	1.0	50.00		106	73.7	126				
Chlorobenzene	52.50	1.0	50.00		105	73.5	124				
Toluene	53.45	1.0	50.00		107	76.8	125				
Trichloroethene	53.39	1.0	50.00		107	70.9	124				
Surr: 4-Bromofluorobenzene	50.95	0	50.00		102	64	125				
Surr: Dibromofluoromethane	50.92	0	50.00		102	76.4	125				
Surr: Toluene-d8	50.81	0	50.00		102	78.3	116				

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299372**

Sample ID: <b>2006U09-085AMS</b>	Client ID: <b>AMW-4</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>MS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9731686</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.91	2.0	50.00		110	63.8	146				
Benzene	55.24	1.0	50.00		110	70.2	137				
Chlorobenzene	54.86	1.0	50.00		110	72.7	141				
Toluene	56.05	1.0	50.00		112	67	141				
Trichloroethene	58.58	1.0	50.00	2.470	112	69.3	141				
Surr: 4-Bromofluorobenzene	50.92	0	50.00		102	64	125				
Surr: Dibromofluoromethane	50.54	0	50.00		101	76.4	125				
Surr: Toluene-d8	50.39	0	50.00		101	78.3	116				

Sample ID: <b>2006U09-085AMSD</b>	Client ID: <b>AMW-4</b>	Units: <b>ug/L</b>	Prep Date: <b>06/30/2020</b>	Run No: <b>429137</b>							
SampleType: <b>MSD</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260D</b>	BatchID: <b>299372</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9731687</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.07	2.0	50.00		94.1	63.8	146	54.91	15.4	20.8	
Benzene	51.43	1.0	50.00		103	70.2	137	55.24	7.14	20	
Chlorobenzene	49.57	1.0	50.00		99.1	72.7	141	54.86	10.1	20	
Toluene	51.88	1.0	50.00		104	67	141	56.05	7.73	20	
Trichloroethene	52.84	1.0	50.00	2.470	101	69.3	141	58.58	10.3	17.9	
Surr: 4-Bromofluorobenzene	50.87	0	50.00		102	64	125	50.92	0	0	
Surr: Dibromofluoromethane	50.18	0	50.00		100	76.4	125	50.54	0	0	
Surr: Toluene-d8	51.23	0	50.00		102	78.3	116	50.39	0	0	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 299405**

Sample ID: <b>MB-299405</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>07/01/2020</b>	Run No: <b>429277</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>299405</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732500</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: <b>LCS-299405</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>07/01/2020</b>	Run No: <b>429277</b>							
SampleType: <b>LCS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>299405</b>	Analysis Date: <b>07/02/2020</b>	Seq No: <b>9732533</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.003785 0.00020 0.0040 94.6 80 120

Sample ID: <b>2006U09-065DMS</b>	Client ID: <b>SWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>07/01/2020</b>	Run No: <b>429277</b>							
SampleType: <b>MS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>299405</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732507</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004563 0.00020 0.0040 114 75 125

Sample ID: <b>2006U09-065DMSD</b>	Client ID: <b>SWC-7</b>	Units: <b>mg/L</b>	Prep Date: <b>07/01/2020</b>	Run No: <b>429277</b>							
SampleType: <b>MSD</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>299405</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9732512</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004552 0.00020 0.0040 114 75 125 0.004563 0.241 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R429038**

Sample ID: <b>MB-R429038</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429038</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R429038</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726866</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      BRL                      10.0

Sample ID: <b>LCS-R429038</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429038</b>							
SampleType: <b>LCS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R429038</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726867</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      497.8                      10.0                      500.0                      99.6                      90                      110

Sample ID: <b>2006R91-001EMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429038</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R429038</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726869</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      463.2                      12.5                      375.0                      84.36                      101                      90                      110

Sample ID: <b>2006U15-001AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429038</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R429038</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726882</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      434.8                      12.5                      375.0                      57.10                      101                      90                      110

Sample ID: <b>2006R91-001EMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429038</b>							
SampleType: <b>MSD</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R429038</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9726870</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      466.1                      12.5                      375.0                      84.36                      102                      90                      110                      463.2                      0.611                      30

**Qualifiers:**      >      Greater than Result value                      <      Less than Result value                      B      Analyte detected in the associated method blank  
 BRL      Below reporting limit                      E      Estimated (value above quantitation range)                      H      Holding times for preparation or analysis exceeded  
 J      Estimated value detected below Reporting Limit                      N      Analyte not NELAC certified                      R      RPD outside limits due to matrix  
 Rpt Lim      Reporting Limit                      S      Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R429121**

Sample ID: <b>MB-R429121</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429121</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B</b>	BatchID: <b>R429121</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728634</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: <b>LCS-R429121</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429121</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B</b>	BatchID: <b>R429121</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728632</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.80 1.00 25.00 103 90 110

Sample ID: <b>2006U91-003AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429121</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B</b>	BatchID: <b>R429121</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728637</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.31 1.00 25.00 97.2 80 120

Sample ID: <b>2006U91-003AMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429121</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Organic Carbon (TOC) by SM5310B</b>	BatchID: <b>R429121</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9728638</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.11 1.00 25.00 96.4 80 120 24.31 0.826 20

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R429199**

Sample ID: <b>MB-R429199</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429199</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429199</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730744</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 0.500

Sample ID: <b>LCS-R429199</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429199</b>							
SampleType: <b>LCS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429199</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730743</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.181 1.00 10.00 91.8 90 110

Sample ID: <b>2006W08-002AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429199</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429199</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730746</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 18.84 1.00 10.00 9.701 91.4 90 110

Sample ID: <b>2006X05-001CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429199</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429199</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730753</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 14.12 1.00 10.00 5.631 84.8 90 110 S

Sample ID: <b>2006W08-002AMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429199</b>							
SampleType: <b>MSD</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429199</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730747</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 18.84 1.00 10.00 9.701 91.4 90 110 18.84 0.029 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R429201**

Sample ID: <b>MB-R429201</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429201</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429201</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730765</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 0.500

Sample ID: <b>LCS-R429201</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429201</b>							
SampleType: <b>LCS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429201</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9730764</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.181 1.00 10.00 91.8 90 110

Sample ID: <b>2006U17-017CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429201</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429201</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9730782</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 13.40 1.00 10.00 4.519 88.8 90 110 S

Sample ID: <b>2006U17-017CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429201</b>							
SampleType: <b>MSD</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429201</b>	Analysis Date: <b>07/01/2020</b>	Seq No: <b>9730783</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 13.45 1.00 10.00 4.519 89.3 90 110 13.40 0.359 20 S

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2006U09

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R429290**

Sample ID: <b>MB-R429290</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429290</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429290</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9733023</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride BRL 1.00

Sample ID: <b>LCS-R429290</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429290</b>							
SampleType: <b>LCS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429290</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9733021</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 9.143 1.00 10.00 91.4 90 110

Sample ID: <b>2006V88-001AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429290</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429290</b>	Analysis Date: <b>06/29/2020</b>	Seq No: <b>9733043</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 17.77 1.00 10.00 8.148 96.2 90 110

Sample ID: <b>2006V88-004AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429290</b>							
SampleType: <b>MS</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429290</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9733046</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 18.10 1.00 10.00 8.340 97.6 90 110

Sample ID: <b>2006V88-001AMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>429290</b>							
SampleType: <b>MSD</b>	TestCode: <b>Inorganic Anions by IC E300.0</b>	BatchID: <b>R429290</b>	Analysis Date: <b>06/30/2020</b>	Seq No: <b>9733044</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride 17.75 1.00 10.00 8.148 96.0 90 110 17.77 0.121 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

September 02, 2020

Charles Adams  
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy  
Roswell GA 30076

RE: Forsyth County- Hightower Road Landfill

Dear Charles Adams:

Order No: 2008P98

Analytical Environmental Services, Inc. received 4 samples on 8/26/2020 12:24:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/20-06/30/21.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/21 and Total Coliforms/ E. coli, effective 04/20/20-04/24/23.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling  
Project Manager

**CHAIN OF CUSTODY**

COMPANY: <u>Atlantic Coast Consulting</u>		ADDRESS: <u>1150 Northmeadow Pkwy Suite 100, Roswell, GA 30076</u>			ANALYSIS REQUESTED								Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> for downloadable COCs and to log in to your AESAccess account.	Number of Containers													
PHONE: <u>770-712-9785</u>		EMAIL: <u>Charles.adams@atlcc.net</u>			<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">#</td> <td style="width: 200px;">SAMPLE ID</td> <td colspan="2">SAMPLED:</td> <td rowspan="2">GRAB</td> <td rowspan="2">COMPOSITE</td> <td rowspan="2">MATRIX (see codes)</td> <td rowspan="2">PRESERVATION (see codes)</td> <td rowspan="2">REMARKS</td> </tr> <tr> <td>DATE</td> <td>TIME</td> <td></td> <td></td> </tr> </table>										#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS	DATE	TIME		
#	SAMPLE ID	SAMPLED:		GRAB											COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	REMARKS									
DATE	TIME																										
SAMPLED BY: <u>Zack Davis</u>		SIGNATURE: <u>[Signature]</u>																									
1	<u>SWC-4A</u>	<u>8/24/10</u>	<u>1025</u>	<u>G</u>		<u>SW</u>	<input checked="" type="checkbox"/>						<u>3</u>														
2	<u>SWC-4B</u>	<u>8/24/10</u>	<u>1040</u>	<u>G</u>		<u>SW</u>	<input checked="" type="checkbox"/>						<u>3</u>														
3	<u>SWC-1</u>	<u>8/24/10</u>	<u>1105</u>	<u>G</u>		<u>SW</u>	<input checked="" type="checkbox"/>						<u>3</u>														
4	<u>Trip Blank</u>	<u>-</u>	<u>-</u>	<u>G</u>		<u>W</u>	<input checked="" type="checkbox"/>						<u>2</u>														
5																											
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10																											
11																											
12																											
13																											
14																											

RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>8/24/10 1224</u>		RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>8/24/10 12:24pm</u>		PROJECT INFORMATION				RECEIPT	
1. <u>[Signature]</u>		1. <u>[Signature]</u>		PROJECT NAME: <u>Forsyth County - Hightower Road Landfill</u>				Total # of Containers: <u>11</u>	
2.		2.		PROJECT #:				Turnaround Time (TAT) Request	
3.		3.		SITE ADDRESS:				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO: <u>Charles Adams</u>				STATE PROGRAM (if any): _____	
		OUT: / / VIA: IN: / / VIA: <input checked="" type="checkbox"/> Client FedEx UPS US mail courier other: _____		INVOICE TO (IF DIFFERENT FROM ABOVE):				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
				QUOTE #: _____ PO#: _____				DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2008P98-001

**Client Sample ID:** SWC-4A  
**Collection Date:** 8/26/2020 10:25:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>			<b>(SW5030B)</b>					
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
2-Butanone	BRL	100		ug/L	301990	1	08/27/2020 18:43	ZH
2-Hexanone	BRL	50		ug/L	301990	1	08/27/2020 18:43	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	301990	1	08/27/2020 18:43	ZH
Acetone	BRL	100		ug/L	301990	1	08/27/2020 18:43	ZH
Acrylonitrile	BRL	50		ug/L	301990	1	08/27/2020 18:43	ZH
Benzene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Bromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Bromodichloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Bromoform	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Bromomethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Carbon disulfide	BRL	5.0		ug/L	301990	1	08/27/2020 18:43	ZH
Carbon tetrachloride	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Chlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Chloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Chloroform	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Chloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Dibromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Dibromomethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Ethylbenzene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Iodomethane	BRL	100		ug/L	301990	1	08/27/2020 18:43	ZH
Methylene chloride	BRL	5.0		ug/L	301990	1	08/27/2020 18:43	ZH
Styrene	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Tetrachloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Toluene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	301990	1	08/27/2020 18:43	ZH
Trichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Trichlorofluoromethane	BRL	10		ug/L	301990	1	08/27/2020 18:43	ZH
Vinyl acetate	BRL	100		ug/L	301990	1	08/27/2020 18:43	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4A
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 8/26/2020 10:25:00 AM
<b>Lab ID:</b> 2008P98-001	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	301990	1	08/27/2020 18:43	ZH
Xylenes, Total	BRL	5.0		ug/L	301990	1	08/27/2020 18:43	ZH
Surr: 4-Bromofluorobenzene	97.9	64-125		%REC	301990	1	08/27/2020 18:43	ZH
Surr: Dibromofluoromethane	98.2	76.4-125		%REC	301990	1	08/27/2020 18:43	ZH
Surr: Toluene-d8	98.7	78.3-116		%REC	301990	1	08/27/2020 18:43	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2008P98-002

**Client Sample ID:** SWC-4B  
**Collection Date:** 8/26/2020 10:40:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
2-Butanone	BRL	100		ug/L	301990	1	08/27/2020 19:03	ZH
2-Hexanone	BRL	50		ug/L	301990	1	08/27/2020 19:03	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	301990	1	08/27/2020 19:03	ZH
Acetone	BRL	100		ug/L	301990	1	08/27/2020 19:03	ZH
Acrylonitrile	BRL	50		ug/L	301990	1	08/27/2020 19:03	ZH
Benzene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Bromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Bromodichloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Bromoform	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Bromomethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Carbon disulfide	BRL	5.0		ug/L	301990	1	08/27/2020 19:03	ZH
Carbon tetrachloride	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Chlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Chloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Chloroform	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Chloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Dibromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Dibromomethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Ethylbenzene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Iodomethane	BRL	100		ug/L	301990	1	08/27/2020 19:03	ZH
Methylene chloride	BRL	5.0		ug/L	301990	1	08/27/2020 19:03	ZH
Styrene	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Tetrachloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Toluene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	301990	1	08/27/2020 19:03	ZH
Trichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Trichlorofluoromethane	BRL	10		ug/L	301990	1	08/27/2020 19:03	ZH
Vinyl acetate	BRL	100		ug/L	301990	1	08/27/2020 19:03	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-4B
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 8/26/2020 10:40:00 AM
<b>Lab ID:</b> 2008P98-002	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	301990	1	08/27/2020 19:03	ZH
Xylenes, Total	BRL	5.0		ug/L	301990	1	08/27/2020 19:03	ZH
Surr: 4-Bromofluorobenzene	99.6	64-125		%REC	301990	1	08/27/2020 19:03	ZH
Surr: Dibromofluoromethane	101	76.4-125		%REC	301990	1	08/27/2020 19:03	ZH
Surr: Toluene-d8	97.4	78.3-116		%REC	301990	1	08/27/2020 19:03	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2008P98-003

**Client Sample ID:** SWC-1  
**Collection Date:** 8/26/2020 11:05:00 AM  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
2-Butanone	BRL	100		ug/L	301990	1	08/27/2020 19:23	ZH
2-Hexanone	BRL	50		ug/L	301990	1	08/27/2020 19:23	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	301990	1	08/27/2020 19:23	ZH
Acetone	BRL	100		ug/L	301990	1	08/27/2020 19:23	ZH
Acrylonitrile	BRL	50		ug/L	301990	1	08/27/2020 19:23	ZH
Benzene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Bromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Bromodichloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Bromoform	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Bromomethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Carbon disulfide	BRL	5.0		ug/L	301990	1	08/27/2020 19:23	ZH
Carbon tetrachloride	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Chlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Chloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Chloroform	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Chloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Dibromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Dibromomethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Ethylbenzene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Iodomethane	BRL	100		ug/L	301990	1	08/27/2020 19:23	ZH
Methylene chloride	BRL	5.0		ug/L	301990	1	08/27/2020 19:23	ZH
Styrene	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Tetrachloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Toluene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	301990	1	08/27/2020 19:23	ZH
Trichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Trichlorofluoromethane	BRL	10		ug/L	301990	1	08/27/2020 19:23	ZH
Vinyl acetate	BRL	100		ug/L	301990	1	08/27/2020 19:23	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> SWC-1
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 8/26/2020 11:05:00 AM
<b>Lab ID:</b> 2008P98-003	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	301990	1	08/27/2020 19:23	ZH
Xylenes, Total	BRL	5.0		ug/L	301990	1	08/27/2020 19:23	ZH
Surr: 4-Bromofluorobenzene	99.4	64-125		%REC	301990	1	08/27/2020 19:23	ZH
Surr: Dibromofluoromethane	102	76.4-125		%REC	301990	1	08/27/2020 19:23	ZH
Surr: Toluene-d8	98.2	78.3-116		%REC	301990	1	08/27/2020 19:23	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Lab ID:** 2008P98-004

**Client Sample ID:** TRIP BLANK  
**Collection Date:** 8/26/2020  
**Matrix:** Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>				<b>(SW5030B)</b>				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,1,1-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,1,2-Trichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,1-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,1-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,2,3-Trichloropropane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,2-Dibromoethane	BRL	1.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,2-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
1,2-Dichloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,2-Dichloropropane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
1,4-Dichlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
2-Butanone	BRL	100		ug/L	301990	1	08/27/2020 18:22	ZH
2-Hexanone	BRL	50		ug/L	301990	1	08/27/2020 18:22	ZH
4-Methyl-2-pentanone	BRL	50		ug/L	301990	1	08/27/2020 18:22	ZH
Acetone	BRL	100		ug/L	301990	1	08/27/2020 18:22	ZH
Acrylonitrile	BRL	50		ug/L	301990	1	08/27/2020 18:22	ZH
Benzene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Bromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Bromodichloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Bromoform	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Bromomethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Carbon disulfide	BRL	5.0		ug/L	301990	1	08/27/2020 18:22	ZH
Carbon tetrachloride	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Chlorobenzene	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Chloroethane	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Chloroform	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Chloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
cis-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
cis-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Dibromochloromethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Dibromomethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Ethylbenzene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Iodomethane	BRL	100		ug/L	301990	1	08/27/2020 18:22	ZH
Methylene chloride	BRL	5.0		ug/L	301990	1	08/27/2020 18:22	ZH
Styrene	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Tetrachloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Toluene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
trans-1,2-Dichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
trans-1,3-Dichloropropene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	301990	1	08/27/2020 18:22	ZH
Trichloroethene	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Trichlorofluoromethane	BRL	10		ug/L	301990	1	08/27/2020 18:22	ZH
Vinyl acetate	BRL	100		ug/L	301990	1	08/27/2020 18:22	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlantic Coast Consulting, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Forsyth County- Hightower Road Landfill	<b>Collection Date:</b> 8/26/2020
<b>Lab ID:</b> 2008P98-004	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX I VOLATILE ORGANICS SW8260D</b>					<b>(SW5030B)</b>			
Vinyl chloride	BRL	2.0		ug/L	301990	1	08/27/2020 18:22	ZH
Xylenes, Total	BRL	5.0		ug/L	301990	1	08/27/2020 18:22	ZH
Surr: 4-Bromofluorobenzene	98.1	64-125		%REC	301990	1	08/27/2020 18:22	ZH
Surr: Dibromofluoromethane	92.9	76.4-125		%REC	301990	1	08/27/2020 18:22	ZH
Surr: Toluene-d8	97.1	78.3-116		%REC	301990	1	08/27/2020 18:22	ZH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

**SAMPLE/COOLER RECEIPT CHECKLIST**

1. Client Name: Atlantic Coast Consulting, Inc.

AES Work Order Number: 2008P98

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 0.1 °C    Cooler 2 Temperature \_\_\_\_\_ °C    Cooler 3 Temperature \_\_\_\_\_ °C    Cooler 4 Temperature \_\_\_\_\_ °C  
 14. Cooler 5 Temperature \_\_\_\_\_ °C    Cooler 6 Temperature \_\_\_\_\_ °C    Cooler 7 Temperature \_\_\_\_\_ °C    Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_

I certify that I have completed sections 1-15 (dated initials). ARS 8/26/20

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). LM 8/27/20

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials). LM 8/27/20

Locked

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2008P98

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 301990**

Sample ID: <b>MB-301990</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9841484</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2008P98

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 301990**

Sample ID: <b>MB-301990</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
SampleType: <b>MBLK</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9841484</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	10									
Surr: 4-Bromofluorobenzene	48.07	0	50.00		96.1	64	125				
Surr: Dibromofluoromethane	44.23	0	50.00		88.5	76.4	125				
Surr: Toluene-d8	48.14	0	50.00		96.3	78.3	116				

Sample ID: <b>LCS-301990</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9841483</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2008P98

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 301990**

Sample ID: <b>LCS-301990</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
SampleType: <b>LCS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9841483</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	21.38	5.0	20.00		107	69.2	141				
Benzene	21.62	5.0	20.00		108	72.3	126				
Chlorobenzene	21.29	5.0	20.00		106	73.3	135				
Toluene	21.82	5.0	20.00		109	70.5	128				
Trichloroethene	21.69	5.0	20.00		108	70.3	133				
Surr: 4-Bromofluorobenzene	49.16	0	50.00		98.3	64	125				
Surr: Dibromofluoromethane	48.30	0	50.00		96.6	76.4	125				
Surr: Toluene-d8	50.17	0	50.00		100	78.3	116				

Sample ID: <b>2008P98-001AMS</b>	Client ID: <b>SWC-4A</b>	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
SampleType: <b>MS</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9844021</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.37	5.0	20.00		117	63.8	146				
Benzene	22.34	5.0	20.00		112	70.2	137				
Chlorobenzene	21.48	5.0	20.00		107	72.7	141				
Toluene	22.49	5.0	20.00		112	67	141				
Trichloroethene	22.27	5.0	20.00		111	69.3	141				
Surr: 4-Bromofluorobenzene	49.99	0	50.00		100.0	64	125				
Surr: Dibromofluoromethane	48.85	0	50.00		97.7	76.4	125				
Surr: Toluene-d8	50.60	0	50.00		101	78.3	116				

Sample ID: <b>2008P98-001AMSD</b>	Client ID: <b>SWC-4A</b>	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>							
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9844022</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.64	5.0	20.00		118	63.8	146	23.37	1.15	20.8	
Benzene	22.34	5.0	20.00		112	70.2	137	22.34	0	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Atlantic Coast Consulting, Inc.  
**Project Name:** Forsyth County- Hightower Road Landfill  
**Workorder:** 2008P98

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 301990**

Sample ID: <b>2008P98-001AMSD</b>	Client ID: <b>SWC-4A</b>	Units: <b>ug/L</b>	Prep Date: <b>08/27/2020</b>	Run No: <b>433407</b>
SampleType: <b>MSD</b>	TestCode: <b>APPENDIX I VOLATILE ORGANICS SW8260D</b>	BatchID: <b>301990</b>	Analysis Date: <b>08/27/2020</b>	Seq No: <b>9844022</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	20.89	5.0	20.00		104	72.7	141	21.48	2.78	20	
Toluene	21.50	5.0	20.00		108	67	141	22.49	4.50	20	
Trichloroethene	21.97	5.0	20.00		110	69.3	141	22.27	1.36	17.9	
Surr: 4-Bromofluorobenzene	50.42	0	50.00		101	64	125	49.99	0	0	
Surr: Dibromofluoromethane	51.14	0	50.00		102	76.4	125	48.85	0	0	
Surr: Toluene-d8	49.82	0	50.00		99.6	78.3	116	50.60	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report

End of Report

**ATTACHMENT B**  
**STATISTICAL ANALYSIS**

**STATISTICAL ANALYSIS:  
Kruskal-Wallis Non-Parametric Test**

**Forsyth County - Hightower Road MSWLF - Phase I**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWB-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-3	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	1%
1,1-Dichloroethane	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	PH1-GWC-4	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-3	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	0.45%
1,1-Dichloroethane	GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-4	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	1%
cis-1,2-Dichloroethene	GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Total Barium	PH1-GWA-1A	TRUE	1%
Total Barium	PH1-GWB-1	TRUE	1%
Total Barium	PH1-GWA-1	FALSE	1%
Total Barium	PH1-GWA-2	TRUE	1%
Total Barium	PH1-GWC-2	FALSE	1%
Total Barium	PH1-GWC-3	TRUE	1%
Total Barium	PH1-GWC-3A	TRUE	1%
Total Barium	GWC-1	TRUE	1%
Total Barium	PH1-GWB-2	FALSE	1%
Total Barium	PH1-GWC-1	TRUE	1%
Total Barium	PH1-GWC-4	TRUE	1%
Total Barium	PH1-GWA-1A	TRUE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.



**Forsyth County - Hightower Road MSWLF - Phase I**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	PH1-GWB-1	TRUE	0.45%
Total Barium	PH1-GWA-1	FALSE	0.45%
Total Barium	PH1-GWA-2	TRUE	0.45%
Total Barium	PH1-GWC-2	FALSE	0.45%
Total Barium	PH1-GWC-3	TRUE	0.45%
Total Barium	PH1-GWC-3A	TRUE	0.45%
Total Barium	GWC-1	TRUE	0.45%
Total Barium	PH1-GWB-2	FALSE	0.45%
Total Barium	PH1-GWC-1	TRUE	0.45%
Total Barium	PH1-GWC-4	TRUE	0.45%
Total Chromium	PH1-GWA-1A	FALSE	1%
Total Chromium	PH1-GWB-1	FALSE	1%
Total Chromium	PH1-GWA-1	FALSE	1%
Total Chromium	PH1-GWA-2	FALSE	1%
Total Chromium	PH1-GWC-2	FALSE	1%
Total Chromium	PH1-GWC-3	FALSE	1%
Total Chromium	PH1-GWC-3A	FALSE	1%
Total Chromium	GWC-1	FALSE	1%
Total Chromium	PH1-GWB-2	FALSE	1%
Total Chromium	PH1-GWC-1	FALSE	1%
Total Chromium	PH1-GWC-4	FALSE	1%
Total Chromium	PH1-GWA-1A	FALSE	0.45%
Total Chromium	PH1-GWB-1	FALSE	0.45%
Total Chromium	PH1-GWA-1	FALSE	0.45%
Total Chromium	PH1-GWA-2	FALSE	0.45%
Total Chromium	PH1-GWC-2	FALSE	0.45%
Total Chromium	PH1-GWC-3	FALSE	0.45%
Total Chromium	PH1-GWC-3A	FALSE	0.45%
Total Chromium	GWC-1	FALSE	0.45%
Total Chromium	PH1-GWB-2	FALSE	0.45%
Total Chromium	PH1-GWC-1	FALSE	0.45%
Total Chromium	PH1-GWC-4	FALSE	0.45%
Total Cobalt	PH1-GWA-1A	FALSE	1%
Total Cobalt	PH1-GWB-1	FALSE	1%
Total Cobalt	PH1-GWA-1	TRUE	1%
Total Cobalt	PH1-GWA-2	FALSE	1%
Total Cobalt	PH1-GWC-2	FALSE	1%
Total Cobalt	PH1-GWC-3	FALSE	1%
Total Cobalt	PH1-GWC-3A	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-1	FALSE	1%
Total Cobalt	PH1-GWB-2	FALSE	1%
Total Cobalt	PH1-GWC-1	FALSE	1%
Total Cobalt	PH1-GWC-4	FALSE	1%
Total Cobalt	PH1-GWA-1A	FALSE	0.45%
Total Cobalt	PH1-GWB-1	FALSE	0.45%
Total Cobalt	PH1-GWA-1	TRUE	0.45%
Total Cobalt	PH1-GWA-2	FALSE	0.45%
Total Cobalt	PH1-GWC-2	FALSE	0.45%
Total Cobalt	PH1-GWC-3	FALSE	0.45%
Total Cobalt	PH1-GWC-3A	FALSE	0.45%
Total Cobalt	GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWB-2	FALSE	0.45%
Total Cobalt	PH1-GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWC-4	FALSE	0.45%
Total Zinc	PH1-GWA-1A	FALSE	1%
Total Zinc	PH1-GWB-1	FALSE	1%
Total Zinc	PH1-GWA-1	TRUE	1%
Total Zinc	PH1-GWA-2	FALSE	1%
Total Zinc	PH1-GWC-2	FALSE	1%
Total Zinc	PH1-GWC-3	FALSE	1%
Total Zinc	PH1-GWC-3A	FALSE	1%
Total Zinc	GWC-1	FALSE	1%
Total Zinc	PH1-GWB-2	TRUE	1%
Total Zinc	PH1-GWC-1	FALSE	1%
Total Zinc	PH1-GWC-4	FALSE	1%
Total Zinc	PH1-GWA-1A	FALSE	0.45%
Total Zinc	PH1-GWB-1	FALSE	0.45%
Total Zinc	PH1-GWA-1	TRUE	0.45%
Total Zinc	PH1-GWA-2	FALSE	0.45%
Total Zinc	PH1-GWC-2	FALSE	0.45%
Total Zinc	PH1-GWC-3	FALSE	0.45%
Total Zinc	PH1-GWC-3A	FALSE	0.45%
Total Zinc	GWC-1	FALSE	0.45%
Total Zinc	PH1-GWB-2	TRUE	0.45%
Total Zinc	PH1-GWC-1	FALSE	0.45%
Total Zinc	PH1-GWC-4	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phase I**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWC-3	TRUE	1%
Trichloroethene	PH1-GWC-3A	TRUE	1%
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-2	FALSE	1%
Trichloroethene	PH1-GWC-4	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-2	FALSE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Kruskal-Wallis Non-Parametric Test**

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks****Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<1	60.5
	6/22/2015	ND<1	60.5
	12/7/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/9/2016	ND<1	60.5
	6/14/2017	ND<1	60.5
	12/11/2017	ND<1	60.5
	6/18/2018	ND<1	60.5
	12/17/2018	ND<1	60.5
	6/13/2019	ND<1	60.5
	12/12/2019	ND<1	60.5
	6/25/2020	ND<1	60.5

Rank Sum = 726

Rank Mean = 60.5

PH1-GWA-4	12/11/2014	ND<1	60.5
	6/22/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/7/2016	ND<1	60.5
	6/15/2017	ND<1	60.5
	12/12/2017	ND<1	60.5
	6/18/2018	ND<1	60.5
	12/18/2018	ND<1	60.5
	6/11/2019	ND<1	60.5
	12/9/2019	ND<1	60.5
	6/24/2020	ND<1	60.5

Rank Sum = 726

Rank Mean = 60.5

Background Rank Sum = 1452

Background Rank Mean = 60.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<1	60.5
	6/23/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/14/2016	ND<1	60.5
	12/7/2016	ND<1	60.5
	6/12/2017	ND<1	60.5
	12/13/2017	ND<1	60.5
	6/19/2018	ND<1	60.5
	12/18/2018	ND<1	60.5
	6/10/2019	ND<1	60.5
	12/10/2019	ND<1	60.5

6/22/2020 ND&lt;1 60.5

Rank Sum = 726

Rank Mean = 60.5

PH1-GWB-1	12/9/2014	ND<1	60.5
	6/22/2015	ND<1	60.5
	12/7/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/7/2016	ND<1	60.5
	6/15/2017	ND<1	60.5
	12/12/2017	ND<1	60.5
	6/18/2018	ND<1	60.5
	12/17/2018	ND<1	60.5
	6/11/2019	ND<1	60.5
	12/10/2019	ND<1	60.5
	6/24/2020	ND<1	60.5

Rank Sum = 726

Rank Mean = 60.5

PH1-GWA-1	12/10/2014	ND<1	60.5
	6/23/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/14/2016	ND<1	60.5
	12/7/2016	ND<1	60.5
	6/13/2017	ND<1	60.5
	12/13/2017	ND<1	60.5
	6/19/2018	ND<1	60.5
	12/18/2018	ND<1	60.5
	6/10/2019	ND<1	60.5
	12/9/2019	ND<1	60.5
	6/22/2020	ND<1	60.5

Rank Sum = 726

Rank Mean = 60.5

PH1-GWA-2	12/10/2014	2	121
	6/22/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/7/2016	ND<1	60.5
	6/15/2017	ND<1	60.5
	12/13/2017	ND<1	60.5
	6/18/2018	ND<1	60.5
	12/18/2018	ND<1	60.5
	6/11/2019	ND<1	60.5
	12/9/2019	ND<1	60.5
	6/24/2020	ND<1	60.5

Rank Sum = 786.5

Rank Mean = 65.5417

PH1-GWC-3	12/10/2014	2.3	123
	6/24/2015	2.4	125
	12/9/2015	2.7	131
	6/16/2016	3.3	147
	12/8/2016	3.6	151
	6/13/2017	2.7	132
	12/12/2017	3.6	152
	6/19/2018	3.2	145

1,1-Dichloroethane

12/18/2018	2.7	133
6/10/2019	3.3	148
12/9/2019	4	155
6/22/2020	2.9	137

Rank Sum = 1679  
Rank Mean = 139.917

PH1-GWC-3A	12/10/2014	3	138
	6/24/2015	2.4	126
	12/9/2015	2.6	128
	6/16/2016	2.7	134
	12/8/2016	2.8	135
	6/13/2017	2	122
	12/12/2017	2.6	129
	6/19/2018	2.6	130
	12/18/2018	2.3	124
	6/10/2019	2.5	127
	12/9/2019	3.1	142
	6/26/2020	ND<1	60.5

Rank Sum = 1495.5  
Rank Mean = 124.625

GWC-1	12/11/2014	ND<1	60.5
	6/24/2015	ND<1	60.5
	12/9/2015	ND<1	60.5
	6/14/2016	ND<1	60.5
	12/8/2016	ND<1	60.5
	6/13/2017	ND<1	60.5
	12/13/2017	ND<1	60.5
	6/19/2018	ND<1	60.5
	12/17/2018	ND<1	60.5
	6/13/2019	ND<1	60.5
	12/10/2019	ND<1	60.5
	6/22/2020	ND<1	60.5

Rank Sum = 726  
Rank Mean = 60.5

PH1-GWB-2	12/11/2014	ND<1	60.5
	6/24/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/8/2016	ND<1	60.5
	6/15/2017	ND<1	60.5
	12/11/2017	ND<1	60.5
	6/19/2018	ND<1	60.5
	12/17/2018	ND<1	60.5
	6/12/2019	ND<1	60.5
	12/12/2019	ND<1	60.5
	6/24/2020	ND<1	60.5

Rank Sum = 726  
Rank Mean = 60.5

PH1-GWC-1	12/11/2014	ND<1	60.5
	6/24/2015	ND<1	60.5
	12/8/2015	ND<1	60.5
	6/15/2016	ND<1	60.5
	12/8/2016	ND<1	60.5

1,1-Dichloroethane

6/15/2017	ND<1	60.5
12/11/2017	ND<1	60.5
6/19/2018	ND<1	60.5
12/19/2018	ND<1	60.5
6/13/2019	ND<1	60.5
12/11/2019	ND<1	60.5
6/22/2020	ND<1	60.5

Rank Sum = 726  
Rank Mean = 60.5

PH1-GWC-2	12/11/2014	3.5	150
	6/23/2015	3	139
	12/8/2015	3.7	153
	6/14/2016	3.1	143
	12/7/2016	3.2	146
	6/13/2017	3	140
	12/13/2017	3.4	149
	6/19/2018	ND<1	60.5
	12/18/2018	2.8	136
	6/10/2019	3	141
	12/10/2019	3.7	154
	6/22/2020	3.1	144

Rank Sum = 1655.5  
Rank Mean = 137.958

PH1-GWC-4	12/11/2014	ND<1	60.5
	6/24/2015	ND<1	60.5
	12/7/2015	ND<1	60.5
	6/13/2016	ND<1	60.5
	12/8/2016	ND<1	60.5
	6/15/2017	ND<1	60.5
	12/11/2017	ND<1	60.5
	6/19/2018	ND<1	60.5
	12/19/2018	ND<1	60.5
	6/13/2019	ND<1	60.5
	6/22/2020	ND<1	60.5

Rank Sum = 665.5  
Rank Mean = 60.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 74.3732

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 138.761

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

**74.3732 > 19.6752 indicating a significant group difference at 5% significance level**

**138.761 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 60.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	60.5	0	36.9204
PH1-GWB-1	60.5	0	36.9204
PH1-GWA-1	60.5	0	36.9204
PH1-GWA-2	65.5417	5.04167	36.9204
PH1-GWC-3	139.917	79.4167	36.9204

1,1-Dichloroethane

<b>PH1-GWC-3A</b>	<b>124.625</b>	<b>64.125</b>	<b>36.9204</b>
GWC-1	60.5	0	36.9204
PH1-GWB-2	60.5	0	36.9204
PH1-GWC-1	60.5	0	36.9204
<b>PH1-GWC-2</b>	<b>137.958</b>	<b>77.4583</b>	<b>36.9204</b>
PH1-GWC-4	60.5	0	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 60.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	60.5	0	42.0901
PH1-GWB-1	60.5	0	42.0901
PH1-GWA-1	60.5	0	42.0901
PH1-GWA-2	65.5417	5.04167	42.0901
<b>PH1-GWC-3</b>	<b>139.917</b>	<b>79.4167</b>	<b>42.0901</b>
<b>PH1-GWC-3A</b>	<b>124.625</b>	<b>64.125</b>	<b>42.0901</b>
GWC-1	60.5	0	42.0901
PH1-GWB-2	60.5	0	42.0901
PH1-GWC-1	60.5	0	42.0901
<b>PH1-GWC-2</b>	<b>137.958</b>	<b>77.4583</b>	<b>42.0901</b>
PH1-GWC-4	60.5	0	43.3468

cis-1,2-Dichloroethene

**Kruskal-Wallis Non-Parametric Test**

**Parameter: cis-1,2-Dichloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<1	47.5
	6/22/2015	ND<1	47.5
	12/7/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/9/2016	ND<1	47.5
	6/14/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/18/2018	ND<1	47.5
	12/17/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
PH1-GWA-4	12/12/2019	ND<1	47.5
	6/25/2020	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

PH1-GWA-4	12/11/2014	ND<1	47.5
	6/22/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/7/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/12/2017	ND<1	47.5
	6/18/2018	ND<1	47.5
	12/18/2018	ND<1	47.5
	6/11/2019	ND<1	47.5
PH1-GWA-5	12/9/2019	ND<1	47.5
	6/24/2020	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

Background Rank Sum = 1140

Background Rank Mean = 47.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<1	47.5
	6/23/2015	ND<1	47.5
	12/8/2015	ND<1	47.5
	6/14/2016	ND<1	47.5
	12/7/2016	ND<1	47.5
	6/12/2017	ND<1	47.5
	12/13/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/18/2018	ND<1	47.5
	6/10/2019	ND<1	47.5
	12/10/2019	ND<1	47.5

cis-1,2-Dichloroethene

6/22/2020 ND<1 47.5

Rank Sum = 570

Rank Mean = 47.5

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PH1-GWB-1 12/9/2014 ND<1 47.5  
 6/22/2015 ND<1 47.5  
 12/7/2015 ND<1 47.5  
 6/13/2016 ND<1 47.5  
 12/7/2016 ND<1 47.5  
 6/15/2017 ND<1 47.5  
 12/12/2017 ND<1 47.5  
 6/18/2018 ND<1 47.5  
 12/17/2018 ND<1 47.5  
 6/11/2019 ND<1 47.5  
 12/10/2019 ND<1 47.5  
 6/24/2020 ND<1 47.5

Rank Sum = 570

Rank Mean = 47.5

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PH1-GWA-1 12/10/2014 9 119  
 6/23/2015 7.5 116  
 12/8/2015 8 117  
 6/14/2016 8.3 118  
 12/7/2016 5 110  
 6/13/2017 5.2 112  
 12/13/2017 3.5 106  
 6/19/2018 3.1 103  
 12/18/2018 2.4 100  
 6/10/2019 5.2 113  
 12/9/2019 3.7 107  
 6/22/2020 4 108

Rank Sum = 1329

Rank Mean = 110.75

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PH1-GWA-2 12/10/2014 73 154  
 6/22/2015 53 150  
 12/8/2015 21 143  
 6/13/2016 32 146  
 12/7/2016 70 153  
 6/15/2017 49 149  
 12/13/2017 64 152  
 6/18/2018 46 148  
 12/18/2018 55 151  
 6/11/2019 26 144  
 12/9/2019 120 155  
 6/24/2020 42 147

Rank Sum = 1792

Rank Mean = 149.333

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PH1-GWC-3 12/10/2014 9 120  
 6/24/2015 11 126  
 12/9/2015 13 132  
 6/16/2016 15 135  
 12/8/2016 15 136  
 6/13/2017 14 133  
 12/12/2017 15 137  
 6/19/2018 15 138

cis-1,2-Dichloroethene

12/18/2018 15 139

6/10/2019 19 141

12/9/2019 27 145

6/22/2020 20 142

Rank Sum = 1624

Rank Mean = 135.333

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PH1-GWC-3A 12/10/2014 11 127  
 6/24/2015 9.3 122  
 12/9/2015 10 124  
 6/16/2016 9.9 123  
 12/8/2016 11 128  
 6/13/2017 11 129  
 12/12/2017 10 125  
 6/19/2018 12 131  
 12/18/2018 9.2 121  
 6/10/2019 11 130  
 12/9/2019 16 140  
 6/26/2020 14 134

Rank Sum = 1534

Rank Mean = 127.833

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GWC-1 12/11/2014 ND<1 47.5  
 6/24/2015 ND<1 47.5  
 12/9/2015 ND<1 47.5  
 6/14/2016 ND<1 47.5  
 12/8/2016 ND<1 47.5  
 6/13/2017 ND<1 47.5  
 12/13/2017 ND<1 47.5  
 6/19/2018 ND<1 47.5  
 12/17/2018 ND<1 47.5  
 6/13/2019 ND<1 47.5  
 12/10/2019 ND<1 47.5  
 6/22/2020 ND<1 47.5

Rank Sum = 570

Rank Mean = 47.5

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PH1-GWB-2 12/11/2014 ND<1 47.5  
 6/24/2015 ND<1 47.5  
 12/8/2015 ND<1 47.5  
 6/13/2016 ND<1 47.5  
 12/8/2016 ND<1 47.5  
 6/15/2017 ND<1 47.5  
 12/11/2017 ND<1 47.5  
 6/19/2018 ND<1 47.5  
 12/17/2018 2.6 102  
 6/12/2019 ND<1 47.5  
 12/12/2019 ND<1 47.5  
 6/24/2020 ND<1 47.5

Rank Sum = 624.5

Rank Mean = 52.0417

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PH1-GWC-1 12/11/2014 ND<1 47.5  
 6/24/2015 ND<1 47.5  
 12/8/2015 ND<1 47.5  
 6/15/2016 ND<1 47.5  
 12/8/2016 ND<1 47.5

cis-1,2-Dichloroethene

6/15/2017	ND<1	47.5
12/11/2017	ND<1	47.5
6/19/2018	ND<1	47.5
12/19/2018	ND<1	47.5
6/13/2019	ND<1	47.5
12/11/2019	ND<1	47.5
6/22/2020	ND<1	47.5

Rank Sum = 570  
Rank Mean = 47.5

PH1-GWC-2	12/11/2014	2	95
	6/23/2015	2	96
	12/8/2015	2.5	101
	6/14/2016	2.2	97
	12/7/2016	2.3	99
	6/13/2017	4.4	109
	12/13/2017	3.1	104
	6/19/2018	2.2	98
	12/18/2018	3.3	105
	6/10/2019	5.1	111
	12/10/2019	5.7	114
	6/22/2020	6	115

Rank Sum = 1244  
Rank Mean = 103.667

PH1-GWC-4	12/11/2014	ND<1	47.5
	6/24/2015	ND<1	47.5
	12/7/2015	ND<1	47.5
	6/13/2016	ND<1	47.5
	12/8/2016	ND<1	47.5
	6/15/2017	ND<1	47.5
	12/11/2017	ND<1	47.5
	6/19/2018	ND<1	47.5
	12/19/2018	ND<1	47.5
	6/13/2019	ND<1	47.5
	6/22/2020	ND<1	47.5

Rank Sum = 522.5  
Rank Mean = 47.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 117.31  
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 150.983  
95% Confidence comparison value is 19.6752 at 11 degrees of freedom

117.31 > 19.6752 indicating a significant group difference at 5% significance level  
150.983 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 47.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	47.5	0	36.9204
PH1-GWB-1	47.5	0	36.9204
PH1-GWA-1	110.75	63.25	36.9204
PH1-GWA-2	149.333	101.833	36.9204
PH1-GWC-3	135.333	87.8333	36.9204

cis-1,2-Dichloroethene

PH1-GWC-3A	127.833	80.3333	36.9204
GWC-1	47.5	0	36.9204
PH1-GWB-2	52.0417	4.54167	36.9204
PH1-GWC-1	47.5	0	36.9204
PH1-GWC-2	103.667	56.1667	36.9204
PH1-GWC-4	47.5	0	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 47.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	47.5	0	42.0901
PH1-GWB-1	47.5	0	42.0901
PH1-GWA-1	110.75	63.25	42.0901
PH1-GWA-2	149.333	101.833	42.0901
PH1-GWC-3	135.333	87.8333	42.0901
PH1-GWC-3A	127.833	80.3333	42.0901
GWC-1	47.5	0	42.0901
PH1-GWB-2	52.0417	4.54167	42.0901
PH1-GWC-1	47.5	0	42.0901
PH1-GWC-2	103.667	56.1667	42.0901
PH1-GWC-4	47.5	0	43.3468



Tetrachloroethene

**Kruskal-Wallis Non-Parametric Test**

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<1	57.5
	6/22/2015	ND<1	57.5
	12/7/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/9/2016	ND<1	57.5
	6/14/2017	ND<1	57.5
	12/11/2017	ND<1	57.5
	6/18/2018	ND<1	57.5
	12/17/2018	ND<1	57.5
	6/13/2019	ND<1	57.5
	12/12/2019	ND<1	57.5
	6/25/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWA-4	12/11/2014	ND<1	57.5
	6/22/2015	ND<1	57.5
	12/8/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/7/2016	ND<1	57.5
	6/15/2017	ND<1	57.5
	12/12/2017	ND<1	57.5
	6/18/2018	ND<1	57.5
	12/18/2018	ND<1	57.5
	6/11/2019	ND<1	57.5
	12/9/2019	ND<1	57.5
	6/24/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

Background Rank Sum = 1380

Background Rank Mean = 57.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<1	57.5
	6/23/2015	ND<1	57.5
	12/8/2015	ND<1	57.5
	6/14/2016	ND<1	57.5
	12/7/2016	ND<1	57.5
	6/12/2017	ND<1	57.5
	12/13/2017	ND<1	57.5
	6/19/2018	ND<1	57.5
	12/18/2018	ND<1	57.5
	6/10/2019	ND<1	57.5
	12/10/2019	ND<1	57.5

Tetrachloroethene

6/22/2020 ND<1 57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWB-1	12/9/2014	ND<1	57.5
	6/22/2015	ND<1	57.5
	12/7/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/7/2016	ND<1	57.5
	6/15/2017	ND<1	57.5
	12/12/2017	ND<1	57.5
	6/18/2018	ND<1	57.5
	12/17/2018	ND<1	57.5
	6/11/2019	ND<1	57.5
	12/10/2019	ND<1	57.5
	6/24/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWA-1	12/10/2014	ND<1	57.5
	6/23/2015	ND<1	57.5
	12/8/2015	ND<1	57.5
	6/14/2016	ND<1	57.5
	12/7/2016	ND<1	57.5
	6/13/2017	ND<1	57.5
	12/13/2017	ND<1	57.5
	6/19/2018	2.1	115
	12/18/2018	ND<1	57.5
	6/10/2019	ND<1	57.5
	12/9/2019	ND<1	57.5
	6/22/2020	ND<1	57.5

Rank Sum = 747.5

Rank Mean = 62.2917

PH1-GWA-2	12/10/2014	4.8	126
	6/22/2015	3.5	119
	12/8/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/7/2016	3.7	120
	6/15/2017	2.1	116
	12/13/2017	2.3	117
	6/18/2018	ND<1	57.5
	12/18/2018	ND<1	57.5
	6/11/2019	ND<1	57.5
	12/9/2019	2.4	118
	6/24/2020	ND<1	57.5

Rank Sum = 1061

Rank Mean = 88.4167

PH1-GWC-3	12/10/2014	8.5	136
	6/24/2015	8.7	139
	12/9/2015	12	152
	6/16/2016	8.4	135
	12/8/2016	12	153
	6/13/2017	11	147
	12/12/2017	13	154
	6/19/2018	11	148

## Tetrachloroethene

12/18/2018	10	144
6/10/2019	11	149
12/9/2019	13	155
6/22/2020	9	143

Rank Sum = 1755

Rank Mean = 146.25

PH1-GWC-3A	12/10/2014	11	150
	6/24/2015	8.5	137
	12/9/2015	10	145
	6/16/2016	6.7	132
	12/8/2016	8.6	138
	6/13/2017	8.9	142
	12/12/2017	10	146
	6/19/2018	11	151
	12/18/2018	8.7	140
	6/10/2019	8.8	141
	12/9/2019	7.4	134
	6/26/2020	ND<1	57.5

Rank Sum = 1613.5

Rank Mean = 134.458

GWC-1	12/11/2014	ND<1	57.5
	6/24/2015	ND<1	57.5
	12/9/2015	ND<1	57.5
	6/14/2016	ND<1	57.5
	12/8/2016	ND<1	57.5
	6/13/2017	ND<1	57.5
	12/13/2017	ND<1	57.5
	6/19/2018	ND<1	57.5
	12/17/2018	ND<1	57.5
	6/13/2019	ND<1	57.5
	12/10/2019	ND<1	57.5
	6/22/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWB-2	12/11/2014	ND<1	57.5
	6/24/2015	ND<1	57.5
	12/8/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/8/2016	ND<1	57.5
	6/15/2017	ND<1	57.5
	12/11/2017	ND<1	57.5
	6/19/2018	ND<1	57.5
	12/17/2018	ND<1	57.5
	6/12/2019	ND<1	57.5
	12/12/2019	ND<1	57.5
	6/24/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWC-1	12/11/2014	ND<1	57.5
	6/24/2015	ND<1	57.5
	12/8/2015	ND<1	57.5
	6/15/2016	ND<1	57.5
	12/8/2016	ND<1	57.5

## Tetrachloroethene

6/15/2017	ND<1	57.5
12/11/2017	ND<1	57.5
6/19/2018	ND<1	57.5
12/19/2018	ND<1	57.5
6/13/2019	ND<1	57.5
12/11/2019	ND<1	57.5
6/22/2020	ND<1	57.5

Rank Sum = 690

Rank Mean = 57.5

PH1-GWC-2	12/11/2014	4.9	127
	6/23/2015	4.7	125
	12/8/2015	6.3	130
	6/14/2016	4	122
	12/7/2016	3.9	121
	6/13/2017	6.7	133
	12/13/2017	5.1	128
	6/19/2018	ND<1	57.5
	12/18/2018	5.1	129
	6/10/2019	4.2	123
	12/10/2019	6.3	131
	6/22/2020	4.6	124

Rank Sum = 1450.5

Rank Mean = 120.875

PH1-GWC-4	12/11/2014	ND<1	57.5
	6/24/2015	ND<1	57.5
	12/7/2015	ND<1	57.5
	6/13/2016	ND<1	57.5
	12/8/2016	ND<1	57.5
	6/15/2017	ND<1	57.5
	12/11/2017	ND<1	57.5
	6/19/2018	ND<1	57.5
	12/19/2018	ND<1	57.5
	6/13/2019	ND<1	57.5
	6/22/2020	ND<1	57.5

Rank Sum = 632.5

Rank Mean = 57.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 79.5997

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 132.189

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

**79.5997 > 19.6752 indicating a significant group difference at 5% significance level****132.189 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties****Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 57.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	57.5	0	36.9204
PH1-GWB-1	57.5	0	36.9204
PH1-GWA-1	62.2917	4.79167	36.9204
PH1-GWA-2	88.4167	30.9167	36.9204
PH1-GWC-3	146.25	88.75	36.9204

Tetrachloroethene

<b>PH1-GWC-3A</b>	<b>134.458</b>	<b>76.9583</b>	<b>36.9204</b>
GWC-1	57.5	0	36.9204
PH1-GWB-2	57.5	0	36.9204
PH1-GWC-1	57.5	0	36.9204
<b>PH1-GWC-2</b>	<b>120.875</b>	<b>63.375</b>	<b>36.9204</b>
PH1-GWC-4	57.5	0	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 57.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	57.5	0	42.0901
PH1-GWB-1	57.5	0	42.0901
PH1-GWA-1	62.2917	4.79167	42.0901
PH1-GWA-2	88.4167	30.9167	42.0901
<b>PH1-GWC-3</b>	<b>146.25</b>	<b>88.75</b>	<b>42.0901</b>
<b>PH1-GWC-3A</b>	<b>134.458</b>	<b>76.9583</b>	<b>42.0901</b>
GWC-1	57.5	0	42.0901
PH1-GWB-2	57.5	0	42.0901
PH1-GWC-1	57.5	0	42.0901
<b>PH1-GWC-2</b>	<b>120.875</b>	<b>63.375</b>	<b>42.0901</b>
PH1-GWC-4	57.5	0	43.3468

Total Barium

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Barium**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<10	21
	6/22/2015	ND<10	21
	12/7/2015	ND<10	21
	6/13/2016	ND<10	21
	12/9/2016	20	42
	6/14/2017	ND<10	21
	12/11/2017	ND<10	21
	6/18/2018	ND<10	21
	12/17/2018	ND<10	21
	6/13/2019	ND<10	21
	12/12/2019	ND<10	21
6/25/2020	ND<10	21	

Rank Sum = 273

Rank Mean = 22.75

PH1-GWA-4	12/12/2014	ND<10	21
	6/23/2015	ND<10	21
	12/9/2015	ND<10	21
	6/14/2016	ND<10	21
	12/8/2016	ND<10	21
	6/16/2017	ND<10	21
	12/13/2017	37	98
	6/19/2018	ND<10	21
	12/19/2018	ND<10	21
	6/12/2019	ND<10	21
	12/10/2019	ND<10	21
	6/25/2020	ND<10	21

Rank Sum = 329

Rank Mean = 27.4167

Background Rank Sum = 602

Background Rank Mean = 25.0833

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	27	73
	6/23/2015	29	83
	12/9/2015	30	88
	6/14/2016	37	99
	12/7/2016	21	45
	6/12/2017	24	55
	12/13/2017	27	74
	6/20/2018	25	64
	12/19/2018	27	75
	6/11/2019	24	56
	12/10/2019	23.4	52

Total Barium

	6/22/2020	21.7	49
Rank Sum = 813			
Rank Mean = 67.75			
<hr/>			
PH1-GWB-1	12/9/2014	72	125
	6/23/2015	78	129
	12/8/2015	75	127
	6/14/2016	84	137
	12/8/2016	75	128
	6/16/2017	52	114
	12/13/2017	54	116
	6/19/2018	62	121
	12/18/2018	53	115
	6/12/2019	82	135
	12/11/2019	67	123
	6/25/2020	79.3	130
Rank Sum = 1500			
Rank Mean = 125			
<hr/>			
PH1-GWA-1	12/11/2014	ND<10	21
	6/24/2015	21	46
	12/9/2015	ND<10	21
	6/15/2016	21	47
	12/8/2016	ND<10	21
	6/14/2017	21	48
	12/14/2017	20	43
	6/20/2018	34	94
	12/19/2018	24	57
	6/11/2019	24	58
	12/10/2019	20.3	44
	6/23/2020	27.7	79
Rank Sum = 579			
Rank Mean = 48.25			
<hr/>			
PH1-GWA-2	12/11/2014	88	142
	6/23/2015	82	136
	12/9/2015	74	126
	6/14/2016	85	140
	12/8/2016	110	152
	6/16/2017	80	131
	12/14/2017	80	132
	6/19/2018	61	120
	12/19/2018	81	134
	6/12/2019	84	138
	12/10/2019	84.2	139
	6/25/2020	64.6	122
Rank Sum = 1612			
Rank Mean = 134.333			
<hr/>			
PH1-GWC-2	12/11/2014	ND<10	21
	6/23/2015	ND<10	21
	12/8/2015	ND<10	21
	6/14/2016	ND<10	21
	12/7/2016	ND<10	21
	6/14/2017	51	112
	12/13/2017	ND<10	21
	6/19/2018	ND<10	21

Total Barium

	12/18/2018	26	68
	6/10/2019	39	102
	12/10/2019	ND<10	21
	6/22/2020	33.6	93
Rank Sum = 543			
Rank Mean = 45.25			
<hr/>			
PH1-GWC-3	12/11/2014	38	100
	6/25/2015	25	65
	12/10/2015	25	66
	6/17/2016	24	59
	12/9/2016	28	80
	6/14/2017	26	69
	12/13/2017	27	76
	6/20/2018	23	51
	12/19/2018	27	77
	6/11/2019	30	89
	12/10/2019	24.7	62
	6/23/2020	23.6	53
Rank Sum = 847			
Rank Mean = 70.5833			
<hr/>			
PH1-GWC-3A	12/11/2014	24	60
	6/25/2015	28	81
	12/10/2015	26	70
	6/17/2016	29	84
	12/9/2016	29	85
	6/14/2017	29	86
	12/13/2017	27	78
	6/28/2018	26	71
	12/19/2018	24	61
	6/11/2019	30	90
	12/10/2019	24.9	63
	6/23/2020	23.9	54
Rank Sum = 883			
Rank Mean = 73.5833			
<hr/>			
GWC-1	12/12/2014	130	153
	6/25/2015	99	150
	12/10/2015	89	144
	6/15/2016	92	145
	12/9/2016	100	151
	6/14/2017	92	146
	12/14/2017	88	143
	6/20/2018	94	148
	12/18/2018	150	154
	6/13/2019	93	147
	12/11/2019	85.2	141
	6/23/2020	95.3	149
Rank Sum = 1771			
Rank Mean = 147.583			
<hr/>			
PH1-GWB-2	12/12/2014	ND<10	21
	6/25/2015	ND<10	21
	12/9/2015	29	87
	6/14/2016	28	82
	12/9/2016	26	72

Total Barium

6/16/2017	ND<10	21
12/12/2017	ND<10	21
6/20/2018	ND<10	21
12/18/2018	22	50
6/13/2019	ND<10	21
12/13/2019	ND<10	21
6/25/2020	ND<10	21

Rank Sum = 459  
Rank Mean = 38.25

PH1-GWC-1	12/12/2014	33	92
	6/25/2015	58	119
	12/9/2015	41	104
	6/16/2016	54	117
	12/9/2016	70	124
	6/16/2017	40	103
	12/12/2017	38	101
	6/20/2018	42	106
	12/20/2018	47	110
	6/13/2019	50	111
	12/12/2019	43.7	109
	6/23/2020	42.8	108

Rank Sum = 1304  
Rank Mean = 108.667

PH1-GWC-4	12/12/2014	51	113
	6/25/2015	34	95
	12/8/2015	36	97
	6/14/2016	41	105
	12/9/2016	80	133
	6/16/2017	42	107
	12/12/2017	54	118
	6/20/2018	34	96
	12/20/2018	310	155
	6/13/2019	32	91
	6/23/2020	25.2	67

Rank Sum = 1177  
Rank Mean = 107

**Calculation Results:**

Kruskal-Wallis H Statistic = 126.57  
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 128.956  
95% Confidence comparison value is 19.6752 at 11 degrees of freedom

126.57 > 19.6752 indicating a significant group difference at 5% significance level  
128.956 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634  
Mean background rank is 25.0833

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	67.75	42.6667	36.9204
PH1-GWB-1	125	99.9167	36.9204
PH1-GWA-1	48.25	23.1667	36.9204
PH1-GWA-2	134.333	109.25	36.9204
PH1-GWC-2	45.25	20.1667	36.9204

Total Barium

PH1-GWC-3	70.5833	45.5	36.9204
PH1-GWC-3A	73.5833	48.5	36.9204
GWC-1	147.583	122.5	36.9204
PH1-GWB-2	38.25	13.1667	36.9204
PH1-GWC-1	108.667	83.5833	36.9204
PH1-GWC-4	107	81.9167	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209  
Mean background rank is 25.0833

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	67.75	42.6667	42.0901
PH1-GWB-1	125	99.9167	42.0901
PH1-GWA-1	48.25	23.1667	42.0901
PH1-GWA-2	134.333	109.25	42.0901
PH1-GWC-2	45.25	20.1667	42.0901
PH1-GWC-3	70.5833	45.5	42.0901
PH1-GWC-3A	73.5833	48.5	42.0901
GWC-1	147.583	122.5	42.0901
PH1-GWB-2	38.25	13.1667	42.0901
PH1-GWC-1	108.667	83.5833	42.0901
PH1-GWC-4	107	81.9167	43.3468

Total Chromium

**Kruskal-Wallis Non-Parametric Test**

Parameter: Total Chromium  
 Original Data (Not Transformed)  
 Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<5	74
	6/22/2015	ND<5	74
	12/7/2015	ND<5	74
	6/13/2016	ND<5	74
	12/9/2016	ND<5	74
	6/14/2017	ND<5	74
	12/11/2017	ND<5	74
	6/18/2018	ND<5	74
	12/17/2018	ND<5	74
	6/13/2019	ND<5	74
	12/12/2019	ND<5	74
6/25/2020	ND<5	74	

Rank Sum = 888  
 Rank Mean = 74

PH1-GWA-4	12/12/2014	ND<5	74
	6/23/2015	ND<5	74
	12/9/2015	ND<5	74
	6/14/2016	ND<5	74
	12/8/2016	ND<5	74
	6/16/2017	ND<5	74
	12/13/2017	ND<5	74
	6/19/2018	ND<5	74
	12/19/2018	ND<5	74
	6/12/2019	ND<5	74
	12/10/2019	ND<5	74
6/25/2020	ND<5	74	

Rank Sum = 888  
 Rank Mean = 74

Background Rank Sum = 1776  
 Background Rank Mean = 74

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<5	74
	6/23/2015	ND<5	74
	12/9/2015	10	148
	6/14/2016	28	152
	12/7/2016	ND<5	74
	6/12/2017	ND<5	74
	12/13/2017	ND<5	74
	6/20/2018	ND<5	74
	12/19/2018	ND<5	74
	6/11/2019	11	149
	12/10/2019	ND<5	74

Total Chromium

6/22/2020 ND<5 74  
 Rank Sum = 1115  
 Rank Mean = 92.9167

PH1-GWB-1	12/9/2014	ND<5	74
	6/23/2015	ND<5	74
	12/8/2015	ND<5	74
	6/14/2016	ND<5	74
	12/8/2016	ND<5	74
	6/16/2017	ND<5	74
	12/13/2017	ND<5	74
	6/19/2018	ND<5	74
	12/18/2018	ND<5	74
	6/12/2019	ND<5	74
	12/11/2019	ND<5	74
6/25/2020	ND<5	74	

Rank Sum = 888  
 Rank Mean = 74

PH1-GWA-1	12/11/2014	ND<5	74
	6/24/2015	ND<5	74
	12/9/2015	ND<5	74
	6/15/2016	ND<5	74
	12/8/2016	ND<5	74
	6/14/2017	ND<5	74
	12/14/2017	ND<5	74
	6/20/2018	ND<5	74
	12/19/2018	ND<5	74
	6/11/2019	ND<5	74
	12/10/2019	ND<5	74
6/23/2020	ND<5	74	

Rank Sum = 888  
 Rank Mean = 74

PH1-GWA-2	12/11/2014	74	155
	6/23/2015	ND<5	74
	12/9/2015	ND<5	74
	6/14/2016	ND<5	74
	12/8/2016	ND<5	74
	6/16/2017	ND<5	74
	12/14/2017	ND<5	74
	6/19/2018	ND<5	74
	12/19/2018	ND<5	74
	6/12/2019	ND<5	74
	12/10/2019	ND<5	74
6/25/2020	ND<5	74	

Rank Sum = 969  
 Rank Mean = 80.75

PH1-GWC-2	12/11/2014	ND<5	74
	6/23/2015	ND<5	74
	12/8/2015	ND<5	74
	6/14/2016	ND<5	74
	12/7/2016	ND<5	74
	6/14/2017	ND<5	74
	12/13/2017	ND<5	74
	6/19/2018	12	150

Total Chromium

12/18/2018	ND<5	74
6/10/2019	69	154
12/10/2019	ND<5	74
6/22/2020	27.2	151

Rank Sum = 1121  
Rank Mean = 93.4167

PH1-GWC-3	12/11/2014	ND<5	74
	6/25/2015	ND<5	74
	12/10/2015	ND<5	74
	6/17/2016	ND<5	74
	12/9/2016	ND<5	74
	6/14/2017	ND<5	74
	12/13/2017	ND<5	74
	6/20/2018	ND<5	74
	12/19/2018	ND<5	74
	6/11/2019	ND<5	74
	12/10/2019	ND<5	74
	6/23/2020	ND<5	74

Rank Sum = 888  
Rank Mean = 74

PH1-GWC-3A	12/11/2014	ND<5	74
	6/25/2015	ND<5	74
	12/10/2015	ND<5	74
	6/17/2016	ND<5	74
	12/9/2016	ND<5	74
	6/14/2017	ND<5	74
	12/13/2017	ND<5	74
	6/28/2018	ND<5	74
	12/19/2018	ND<5	74
	6/11/2019	ND<5	74
	12/10/2019	ND<5	74
	6/23/2020	ND<5	74

Rank Sum = 888  
Rank Mean = 74

GWC-1	12/12/2014	ND<5	74
	6/25/2015	ND<5	74
	12/10/2015	ND<5	74
	6/15/2016	ND<5	74
	12/9/2016	ND<5	74
	6/14/2017	ND<5	74
	12/14/2017	ND<5	74
	6/20/2018	ND<5	74
	12/18/2018	ND<5	74
	6/13/2019	ND<5	74
	12/11/2019	ND<5	74
	6/23/2020	ND<5	74

Rank Sum = 888  
Rank Mean = 74

PH1-GWB-2	12/12/2014	ND<5	74
	6/25/2015	ND<5	74
	12/9/2015	ND<5	74
	6/14/2016	ND<5	74
	12/9/2016	ND<5	74

Total Chromium

6/16/2017	ND<5	74
12/12/2017	ND<5	74
6/20/2018	ND<5	74
12/18/2018	ND<5	74
6/13/2019	ND<5	74
12/13/2019	ND<5	74
6/25/2020	ND<5	74

Rank Sum = 888  
Rank Mean = 74

PH1-GWC-1	12/12/2014	ND<5	74
	6/25/2015	ND<5	74
	12/9/2015	ND<5	74
	6/16/2016	ND<5	74
	12/9/2016	ND<5	74
	6/16/2017	ND<5	74
	12/12/2017	ND<5	74
	6/20/2018	ND<5	74
	12/20/2018	ND<5	74
	6/13/2019	ND<5	74
	12/12/2019	ND<5	74
	6/23/2020	ND<5	74

Rank Sum = 888  
Rank Mean = 74

PH1-GWC-4	12/12/2014	ND<5	74
	6/25/2015	ND<5	74
	12/8/2015	ND<5	74
	6/14/2016	ND<5	74
	12/9/2016	ND<5	74
	6/16/2017	ND<5	74
	12/12/2017	ND<5	74
	6/20/2018	ND<5	74
	12/20/2018	49	153
	6/13/2019	ND<5	74
	6/23/2020	ND<5	74

Rank Sum = 893  
Rank Mean = 81.1818

**Calculation Results:**

Kruskal-Wallis H Statistic = 3.6984  
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 25.1612  
95% Confidence comparison value is 19.6752 at 11 degrees of freedom  
3.6984 < 19.6752 indicating no significant group difference at 5% significance level  
**25.1612 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634  
Mean background rank is 74

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	92.9167	18.9167	36.9204
PH1-GWB-1	74	0	36.9204
PH1-GWA-1	74	0	36.9204
PH1-GWA-2	80.75	6.75	36.9204
PH1-GWC-2	93.4167	19.4167	36.9204

Total Chromium

PH1-GWC-3	74	0	36.9204
PH1-GWC-3A	74	0	36.9204
GWC-1	74	0	36.9204
PH1-GWB-2	74	0	36.9204
PH1-GWC-1	74	0	36.9204
PH1-GWC-4	81.1818	7.18182	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 74

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	92.9167	18.9167	42.0901
PH1-GWB-1	74	0	42.0901
PH1-GWA-1	74	0	42.0901
PH1-GWA-2	80.75	6.75	42.0901
PH1-GWC-2	93.4167	19.4167	42.0901
PH1-GWC-3	74	0	42.0901
PH1-GWC-3A	74	0	42.0901
GWC-1	74	0	42.0901
PH1-GWB-2	74	0	42.0901
PH1-GWC-1	74	0	42.0901
PH1-GWC-4	81.1818	7.18182	43.3468

Total Cobalt

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Cobalt**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<20	72
	6/22/2015	ND<20	72
	12/7/2015	ND<20	72
	6/13/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/11/2017	ND<20	72
	6/18/2018	ND<20	72
	12/17/2018	ND<20	72
	6/13/2019	ND<20	72
	12/12/2019	ND<20	72
	6/25/2020	ND<20	72

Rank Sum = 864

Rank Mean = 72

PH1-GWA-4	12/12/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72
	12/19/2018	ND<20	72
	6/12/2019	ND<20	72
	12/10/2019	ND<20	72
	6/25/2020	ND<20	72

Rank Sum = 864

Rank Mean = 72

Background Rank Sum = 1728

Background Rank Mean = 72

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/7/2016	ND<20	72
	6/12/2017	ND<20	72
	12/13/2017	ND<20	72
	6/20/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72



Total Cobalt

	6/22/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWB-1	12/9/2014	ND<20	72
	6/23/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72
	12/18/2018	ND<20	72
	6/12/2019	ND<20	72
	12/11/2019	ND<20	72
	6/25/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWA-1	12/11/2014	96	152
	6/24/2015	120	155
	12/9/2015	95	151
	6/15/2016	110	154
	12/8/2016	94	150
	6/14/2017	100	153
	12/14/2017	76	145
	6/20/2018	75	144
	12/19/2018	82	147
	6/11/2019	91	149
	12/10/2019	90.1	148
	6/23/2020	76.6	146
Rank Sum = 1794			
Rank Mean = 149.5			
<hr/>			
PH1-GWA-2	12/11/2014	ND<20	72
	6/23/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/8/2016	ND<20	72
	6/16/2017	ND<20	72
	12/14/2017	ND<20	72
	6/19/2018	ND<20	72
	12/19/2018	ND<20	72
	6/12/2019	ND<20	72
	12/10/2019	ND<20	72
	6/25/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-2	12/11/2014	ND<20	72
	6/23/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72
	12/7/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/19/2018	ND<20	72

Total Cobalt

	12/18/2018	ND<20	72
	6/10/2019	ND<20	72
	12/10/2019	ND<20	72
	6/22/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-3	12/11/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/17/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/20/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72
	6/23/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWC-3A	12/11/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/17/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/13/2017	ND<20	72
	6/28/2018	ND<20	72
	12/19/2018	ND<20	72
	6/11/2019	ND<20	72
	12/10/2019	ND<20	72
	6/23/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
GWC-1	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/10/2015	ND<20	72
	6/15/2016	ND<20	72
	12/9/2016	ND<20	72
	6/14/2017	ND<20	72
	12/14/2017	ND<20	72
	6/20/2018	ND<20	72
	12/18/2018	ND<20	72
	6/13/2019	ND<20	72
	12/11/2019	ND<20	72
	6/23/2020	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
<hr/>			
PH1-GWB-2	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/9/2015	ND<20	72
	6/14/2016	ND<20	72
	12/9/2016	ND<20	72

Total Cobalt

6/16/2017	ND<20	72
12/12/2017	ND<20	72
6/20/2018	ND<20	72
12/18/2018	ND<20	72
6/13/2019	ND<20	72
12/13/2019	ND<20	72
6/25/2020	ND<20	72

Rank Sum = 864  
Rank Mean = 72

PH1-GWC-1	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/9/2015	ND<20	72
	6/16/2016	ND<20	72
	12/9/2016	ND<20	72
	6/16/2017	ND<20	72
	12/12/2017	ND<20	72
	6/20/2018	ND<20	72
	12/20/2018	ND<20	72
	6/13/2019	ND<20	72
	12/12/2019	ND<20	72
	6/23/2020	ND<20	72

Rank Sum = 864  
Rank Mean = 72

PH1-GWC-4	12/12/2014	ND<20	72
	6/25/2015	ND<20	72
	12/8/2015	ND<20	72
	6/14/2016	ND<20	72
	12/9/2016	ND<20	72
	6/16/2017	ND<20	72
	12/12/2017	ND<20	72
	6/20/2018	ND<20	72
	12/20/2018	ND<20	72
	6/13/2019	ND<20	72
	6/23/2020	ND<20	72

Rank Sum = 792  
Rank Mean = 72

**Calculation Results:**

Kruskal-Wallis H Statistic = 33

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 153.67

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

**33 > 19.6752 indicating a significant group difference at 5% significance level**

**153.67 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 72

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	72	0	36.9204
PH1-GWB-1	72	0	36.9204
<b>PH1-GWA-1</b>	<b>149.5</b>	<b>77.5</b>	<b>36.9204</b>
PH1-GWA-2	72	0	36.9204
PH1-GWC-2	72	0	36.9204

Total Cobalt

PH1-GWC-3	72	0	36.9204
PH1-GWC-3A	72	0	36.9204
GWC-1	72	0	36.9204
PH1-GWB-2	72	0	36.9204
PH1-GWC-1	72	0	36.9204
PH1-GWC-4	72	0	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 72

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	72	0	42.0901
PH1-GWB-1	72	0	42.0901
<b>PH1-GWA-1</b>	<b>149.5</b>	<b>77.5</b>	<b>42.0901</b>
PH1-GWA-2	72	0	42.0901
PH1-GWC-2	72	0	42.0901
PH1-GWC-3	72	0	42.0901
PH1-GWC-3A	72	0	42.0901
GWC-1	72	0	42.0901
PH1-GWB-2	72	0	42.0901
PH1-GWC-1	72	0	42.0901
PH1-GWC-4	72	0	43.3468

Total Zinc

**Kruskal-Wallis Non-Parametric Test**

Parameter: Total Zinc  
 Original Data (Not Transformed)  
 Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<10	56
	6/22/2015	ND<10	56
	12/7/2015	ND<10	56
	6/13/2016	ND<10	56
	12/9/2016	ND<10	56
	6/14/2017	ND<10	56
	12/11/2017	ND<10	56
	6/18/2018	ND<10	56
	12/17/2018	ND<10	56
	6/13/2019	ND<10	56
	12/12/2019	ND<10	56
	6/25/2020	ND<10	56

Rank Sum = 672  
 Rank Mean = 56

PH1-GWA-4	12/12/2014	ND<10	56
	6/23/2015	ND<10	56
	12/9/2015	ND<10	56
	6/14/2016	ND<10	56
	12/8/2016	ND<10	56
	6/16/2017	ND<10	56
	12/13/2017	ND<10	56
	6/19/2018	ND<10	56
	12/19/2018	ND<10	56
	6/12/2019	ND<10	56
	12/10/2019	48.9	148
	6/25/2020	ND<10	56

Rank Sum = 764  
 Rank Mean = 63.6667

Background Rank Sum = 1436  
 Background Rank Mean = 59.8333

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<10	56
	6/23/2015	ND<10	56
	12/9/2015	ND<10	56
	6/14/2016	ND<10	56
	12/7/2016	ND<10	56
	6/12/2017	ND<10	56
	12/13/2017	ND<10	56
	6/20/2018	ND<10	56
	12/19/2018	ND<10	56
	6/11/2019	ND<10	56
	12/10/2019	ND<10	56

Total Zinc

6/22/2020 ND<10 56  
 Rank Sum = 672  
 Rank Mean = 56

PH1-GWB-1	12/9/2014	21	117
	6/23/2015	ND<10	56
	12/8/2015	29	131
	6/14/2016	ND<10	56
	12/8/2016	ND<10	56
	6/16/2017	ND<10	56
	12/13/2017	ND<10	56
	6/19/2018	39	145
	12/18/2018	ND<10	56
	6/12/2019	22	121
	12/11/2019	38.2	143
	6/25/2020	26.8	127

Rank Sum = 1120  
 Rank Mean = 93.3333

PH1-GWA-1	12/11/2014	ND<10	56
	6/24/2015	34	139
	12/9/2015	ND<10	56
	6/15/2016	21	118
	12/8/2016	ND<10	56
	6/14/2017	43	147
	12/14/2017	51	150
	6/20/2018	55	151
	12/19/2018	40	146
	6/11/2019	34	140
	12/10/2019	32.4	136
	6/23/2020	ND<10	56

Rank Sum = 1351  
 Rank Mean = 112.583

PH1-GWA-2	12/11/2014	ND<10	56
	6/23/2015	ND<10	56
	12/9/2015	ND<10	56
	6/14/2016	56	153
	12/8/2016	ND<10	56
	6/16/2017	ND<10	56
	12/14/2017	ND<10	56
	6/19/2018	ND<10	56
	12/19/2018	29	132
	6/12/2019	ND<10	56
	12/10/2019	ND<10	56
	6/25/2020	ND<10	56

Rank Sum = 845  
 Rank Mean = 70.4167

PH1-GWC-2	12/11/2014	22	122
	6/23/2015	ND<10	56
	12/8/2015	ND<10	56
	6/14/2016	ND<10	56
	12/7/2016	ND<10	56
	6/14/2017	ND<10	56
	12/13/2017	ND<10	56
	6/19/2018	20	112

Total Zinc

12/18/2018	ND<10	56
6/10/2019	26	126
12/10/2019	ND<10	56
6/22/2020	ND<10	56

Rank Sum = 864  
Rank Mean = 72

PH1-GWC-3	12/11/2014	ND<10	56
	6/25/2015	ND<10	56
	12/10/2015	ND<10	56
	6/17/2016	ND<10	56
	12/9/2016	ND<10	56
	6/14/2017	ND<10	56
	12/13/2017	ND<10	56
	6/20/2018	ND<10	56
	12/19/2018	ND<10	56
	6/11/2019	ND<10	56
	12/10/2019	ND<10	56
	6/23/2020	ND<10	56

Rank Sum = 672  
Rank Mean = 56

PH1-GWC-3A	12/11/2014	ND<10	56
	6/25/2015	ND<10	56
	12/10/2015	ND<10	56
	6/17/2016	ND<10	56
	12/9/2016	ND<10	56
	6/14/2017	ND<10	56
	12/13/2017	ND<10	56
	6/28/2018	21	119
	12/19/2018	ND<10	56
	6/11/2019	ND<10	56
	12/10/2019	ND<10	56
	6/23/2020	36.9	142

Rank Sum = 821  
Rank Mean = 68.4167

GWC-1	12/12/2014	ND<10	56
	6/25/2015	ND<10	56
	12/10/2015	ND<10	56
	6/15/2016	ND<10	56
	12/9/2016	ND<10	56
	6/14/2017	ND<10	56
	12/14/2017	ND<10	56
	6/20/2018	20	113
	12/18/2018	ND<10	56
	6/13/2019	ND<10	56
	12/11/2019	27.1	128
	6/23/2020	55.4	152

Rank Sum = 897  
Rank Mean = 74.75

PH1-GWB-2	12/12/2014	31	133
	6/25/2015	23	123
	12/9/2015	49	149
	6/14/2016	59	154
	12/9/2016	31	134

Total Zinc

6/16/2017	36	141
12/12/2017	25	124
6/20/2018	31	135
12/18/2018	28	129
6/13/2019	33	138
12/13/2019	38.3	144
6/25/2020	25.4	125

Rank Sum = 1629  
Rank Mean = 135.75

PH1-GWC-1	12/12/2014	ND<10	56
	6/25/2015	ND<10	56
	12/9/2015	ND<10	56
	6/16/2016	ND<10	56
	12/9/2016	ND<10	56
	6/16/2017	ND<10	56
	12/12/2017	ND<10	56
	6/20/2018	ND<10	56
	12/20/2018	ND<10	56
	6/13/2019	ND<10	56
	12/12/2019	ND<10	56
	6/23/2020	32.5	137

Rank Sum = 753  
Rank Mean = 62.75

PH1-GWC-4	12/12/2014	20	114
	6/25/2015	ND<10	56
	12/8/2015	ND<10	56
	6/14/2016	ND<10	56
	12/9/2016	21	120
	6/16/2017	20	115
	12/12/2017	28	130
	6/20/2018	ND<10	56
	12/20/2018	120	155
	6/13/2019	20	116
	6/23/2020	ND<10	56

Rank Sum = 1030  
Rank Mean = 93.6364

**Calculation Results:**

Kruskal-Wallis H Statistic = 41.9662

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 66.3231

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

**41.9662 > 19.6752 indicating a significant group difference at 5% significance level**

**66.3231 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 59.8333

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	56	-3.83333	36.9204
PH1-GWB-1	93.3333	33.5	36.9204
<b>PH1-GWA-1</b>	<b>112.583</b>	<b>52.75</b>	<b>36.9204</b>
PH1-GWA-2	70.4167	10.5833	36.9204
PH1-GWC-2	72	12.1667	36.9204

Total Zinc

PH1-GWC-3	56	-3.83333	36.9204
PH1-GWC-3A	68.4167	8.58333	36.9204
GWC-1	74.75	14.9167	36.9204
<b>PH1-GWB-2</b>	<b>135.75</b>	<b>75.9167</b>	<b>36.9204</b>
PH1-GWC-1	62.75	2.91667	36.9204
PH1-GWC-4	93.6364	33.803	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 59.8333

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	56	-3.83333	42.0901
PH1-GWB-1	93.3333	33.5	42.0901
<b>PH1-GWA-1</b>	<b>112.583</b>	<b>52.75</b>	<b>42.0901</b>
PH1-GWA-2	70.4167	10.5833	42.0901
PH1-GWC-2	72	12.1667	42.0901
PH1-GWC-3	56	-3.83333	42.0901
PH1-GWC-3A	68.4167	8.58333	42.0901
GWC-1	74.75	14.9167	42.0901
<b>PH1-GWB-2</b>	<b>135.75</b>	<b>75.9167</b>	<b>42.0901</b>
PH1-GWC-1	62.75	2.91667	42.0901
PH1-GWC-4	93.6364	33.803	43.3468

Trichloroethene

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Trichloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/11/2014	ND<1	55.5
	6/22/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/9/2016	ND<1	55.5
	6/14/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
6/25/2020	ND<1	55.5	

Rank Sum = 666

Rank Mean = 55.5

PH1-GWA-4	12/11/2014	ND<1	55.5
	6/22/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/9/2019	ND<1	55.5
	6/24/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

Background Rank Sum = 1332

Background Rank Mean = 55.5

**Compliance Locations**

Loc. ID	Date	Value	Rank
PH1-GWA-1A	12/8/2014	ND<1	55.5
	6/23/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/12/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/10/2019	ND<1	55.5

## Trichloroethene

	6/22/2020	ND<1	55.5
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Rank Sum = 666

Rank Mean = 55.5

PH1-GWB-1	12/9/2014	ND<1	55.5
	6/22/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/12/2017	ND<1	55.5
	6/18/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/11/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/24/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

PH1-GWA-1	12/10/2014	2.7	120
	6/23/2015	2.1	113
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	2.2	116
	6/13/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	ND<1	55.5
	6/10/2019	ND<1	55.5
	12/9/2019	3.1	122
	6/22/2020	ND<1	55.5

Rank Sum = 915

Rank Mean = 76.25

PH1-GWA-2	12/10/2014	6.7	140
	6/22/2015	5.1	130
	12/8/2015	3.5	123
	6/13/2016	3.8	124
	12/7/2016	7.1	148
	6/15/2017	4.1	126
	12/13/2017	5.8	134
	6/18/2018	4.2	127
	12/18/2018	4	125
	6/11/2019	2.1	114
	12/9/2019	7.3	150
	6/24/2020	2.4	117

Rank Sum = 1558

Rank Mean = 129.833

PH1-GWC-3	12/10/2014	4.6	128
	6/24/2015	5.3	131
	12/9/2015	6.9	145
	6/16/2016	5.6	132
	12/8/2016	7.6	152
	6/13/2017	7	147
	12/12/2017	8.4	153
	6/19/2018	6.9	146

## Trichloroethene

	12/18/2018	6.8	142
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	6/10/2019	7.4	151
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	12/9/2019	8.7	155
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	6/22/2020	7.1	149
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Rank Sum = 1731

Rank Mean = 144.25

PH1-GWC-3A	12/10/2014	5.8	135
	6/24/2015	6.5	138
	12/9/2015	6.7	141
	6/16/2016	4.6	129
	12/8/2016	6.8	143
	6/13/2017	6	137
	12/12/2017	6.6	139
	6/19/2018	6.8	144
	12/18/2018	5.8	136
	6/10/2019	5.7	133
	12/9/2019	8.4	154
	6/26/2020	2.8	121

Rank Sum = 1650

Rank Mean = 137.5

GWC-1	12/11/2014	ND<1	55.5
	6/24/2015	ND<1	55.5
	12/9/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/13/2017	ND<1	55.5
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	12/10/2019	ND<1	55.5
	6/22/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

PH1-GWB-2	12/11/2014	ND<1	55.5
	6/24/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/17/2018	ND<1	55.5
	6/12/2019	ND<1	55.5
	12/12/2019	ND<1	55.5
	6/24/2020	ND<1	55.5

Rank Sum = 666

Rank Mean = 55.5

PH1-GWC-1	12/11/2014	ND<1	55.5
	6/24/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/15/2016	ND<1	55.5
	12/8/2016	ND<1	55.5

Trichloroethene

6/15/2017	ND<1	55.5
12/11/2017	ND<1	55.5
6/19/2018	ND<1	55.5
12/19/2018	ND<1	55.5
6/13/2019	ND<1	55.5
12/11/2019	ND<1	55.5
6/22/2020	ND<1	55.5

Rank Sum = 666  
Rank Mean = 55.5

PH1-GWC-2	12/11/2014	ND<1	55.5
	6/23/2015	ND<1	55.5
	12/8/2015	ND<1	55.5
	6/14/2016	ND<1	55.5
	12/7/2016	ND<1	55.5
	6/13/2017	2.4	118
	12/13/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/18/2018	2	111
	6/10/2019	2	112
	12/10/2019	2.6	119
	6/22/2020	2.1	115

Rank Sum = 963.5  
Rank Mean = 80.2917

PH1-GWC-4	12/11/2014	ND<1	55.5
	6/24/2015	ND<1	55.5
	12/7/2015	ND<1	55.5
	6/13/2016	ND<1	55.5
	12/8/2016	ND<1	55.5
	6/15/2017	ND<1	55.5
	12/11/2017	ND<1	55.5
	6/19/2018	ND<1	55.5
	12/19/2018	ND<1	55.5
	6/13/2019	ND<1	55.5
	6/22/2020	ND<1	55.5

Rank Sum = 610.5  
Rank Mean = 55.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 87.1393

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 135.606

95% Confidence comparison value is 19.6752 at 11 degrees of freedom

87.1393 > 19.6752 indicating a significant group difference at 5% significance level

135.606 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	55.5	0	36.9204
PH1-GWB-1	55.5	0	36.9204
PH1-GWA-1	76.25	20.75	36.9204
PH1-GWA-2	129.833	74.3333	36.9204
PH1-GWC-3	144.25	88.75	36.9204

Trichloroethene

PH1-GWC-3A	137.5	82	36.9204
GWC-1	55.5	0	36.9204
PH1-GWB-2	55.5	0	36.9204
PH1-GWC-1	55.5	0	36.9204
PH1-GWC-2	80.2917	24.7917	36.9204
PH1-GWC-4	55.5	0	38.0227

**Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)**

0.454545% Z score is 2.65209

Mean background rank is 55.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	55.5	0	42.0901
PH1-GWB-1	55.5	0	42.0901
PH1-GWA-1	76.25	20.75	42.0901
PH1-GWA-2	129.833	74.3333	42.0901
PH1-GWC-3	144.25	88.75	42.0901
PH1-GWC-3A	137.5	82	42.0901
GWC-1	55.5	0	42.0901
PH1-GWB-2	55.5	0	42.0901
PH1-GWC-1	55.5	0	42.0901
PH1-GWC-2	80.2917	24.7917	42.0901
PH1-GWC-4	55.5	0	43.3468

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-1A	FALSE	1%
1,1-Dichloroethane	GWA-3	FALSE	1%
1,1-Dichloroethane	GWC-22	FALSE	1%
1,1-Dichloroethane	GWC-23	FALSE	1%
1,1-Dichloroethane	GWC-23A	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-10	FALSE	1%
1,1-Dichloroethane	GWC-10A	FALSE	1%
1,1-Dichloroethane	GWC-11	FALSE	1%
1,1-Dichloroethane	GWC-12	FALSE	1%
1,1-Dichloroethane	GWC-12A	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-16A	FALSE	1%
1,1-Dichloroethane	GWC-14	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-15	TRUE	1%
1,1-Dichloroethane	GWC-17	FALSE	1%
1,1-Dichloroethane	GWC-18	FALSE	1%
1,1-Dichloroethane	GWC-19R	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWC-8	FALSE	1%
1,1-Dichloroethane	GWC-8A	TRUE	1%
1,1-Dichloroethane	GWC-8R	TRUE	1%
1,1-Dichloroethane	GWC-13	FALSE	1%
1,1-Dichloroethane	GWC-2	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-4A	FALSE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWA-1A	FALSE	0.16%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-22	FALSE	0.16%
1,1-Dichloroethane	GWC-23	FALSE	0.16%
1,1-Dichloroethane	GWC-23A	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-10	FALSE	0.16%
1,1-Dichloroethane	GWC-10A	FALSE	0.16%
1,1-Dichloroethane	GWC-11	FALSE	0.16%
1,1-Dichloroethane	GWC-12	FALSE	0.16%
1,1-Dichloroethane	GWC-12A	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-16A	FALSE	0.16%
1,1-Dichloroethane	GWC-14	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-15	TRUE	0.16%
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%
1,1-Dichloroethane	GWC-19R	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWC-8	FALSE	0.16%
1,1-Dichloroethane	GWC-8A	TRUE	0.16%
1,1-Dichloroethane	GWC-8R	TRUE	0.16%
1,1-Dichloroethane	GWC-13	FALSE	0.16%
1,1-Dichloroethane	GWC-2	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
1,1-Dichloroethane	GWC-4A	FALSE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
Acetone	GWA-1A	FALSE	1%
Acetone	GWA-3	FALSE	1%
Acetone	GWC-22	FALSE	1%
Acetone	GWC-23	FALSE	1%
Acetone	GWC-23A	FALSE	1%
Acetone	GWC-5	FALSE	1%
Acetone	GWC-7	FALSE	1%
Acetone	GWC-10	FALSE	1%
Acetone	GWC-10A	FALSE	1%
Acetone	GWC-11	FALSE	1%
Acetone	GWC-12	FALSE	1%
Acetone	GWC-12A	FALSE	1%
Acetone	GWC-6	FALSE	1%
Acetone	GWC-16A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-14	FALSE	1%
Acetone	GWC-14A	FALSE	1%
Acetone	GWC-14R	FALSE	1%
Acetone	GWC-15	FALSE	1%
Acetone	GWC-17	FALSE	1%
Acetone	GWC-18	FALSE	1%
Acetone	GWC-19R	FALSE	1%
Acetone	GWC-24	FALSE	1%
Acetone	GWC-8	FALSE	1%
Acetone	GWC-8A	FALSE	1%
Acetone	GWC-8R	FALSE	1%
Acetone	GWC-13	FALSE	1%
Acetone	GWC-2	FALSE	1%
Acetone	GWC-3A	FALSE	1%
Acetone	GWC-4	FALSE	1%
Acetone	GWC-4A	FALSE	1%
Acetone	GWC-9	FALSE	1%
Acetone	GWC-3	FALSE	1%
Acetone	GWA-1A	FALSE	0.16%
Acetone	GWA-3	FALSE	0.16%
Acetone	GWC-22	FALSE	0.16%
Acetone	GWC-23	FALSE	0.16%
Acetone	GWC-23A	FALSE	0.16%
Acetone	GWC-5	FALSE	0.16%
Acetone	GWC-7	FALSE	0.16%
Acetone	GWC-10	FALSE	0.16%
Acetone	GWC-10A	FALSE	0.16%
Acetone	GWC-11	FALSE	0.16%
Acetone	GWC-12	FALSE	0.16%
Acetone	GWC-12A	FALSE	0.16%
Acetone	GWC-6	FALSE	0.16%
Acetone	GWC-16A	FALSE	0.16%
Acetone	GWC-14	FALSE	0.16%
Acetone	GWC-14A	FALSE	0.16%
Acetone	GWC-14R	FALSE	0.16%
Acetone	GWC-15	FALSE	0.16%
Acetone	GWC-17	FALSE	0.16%
Acetone	GWC-18	FALSE	0.16%
Acetone	GWC-19R	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-24	FALSE	0.16%
Acetone	GWC-8	FALSE	0.16%
Acetone	GWC-8A	FALSE	0.16%
Acetone	GWC-8R	FALSE	0.16%
Acetone	GWC-13	FALSE	0.16%
Acetone	GWC-2	FALSE	0.16%
Acetone	GWC-3A	FALSE	0.16%
Acetone	GWC-4	FALSE	0.16%
Acetone	GWC-4A	FALSE	0.16%
Acetone	GWC-9	FALSE	0.16%
Acetone	GWC-3	FALSE	0.16%
Benzene	GWA-1A	FALSE	1%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-10	FALSE	1%
Benzene	GWC-10A	FALSE	1%
Benzene	GWC-11	FALSE	1%
Benzene	GWC-12	FALSE	1%
Benzene	GWC-12A	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-15	FALSE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-13	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-3A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-4	FALSE	1%
Benzene	GWC-4A	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWA-1A	FALSE	0.16%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-10	FALSE	0.16%
Benzene	GWC-10A	FALSE	0.16%
Benzene	GWC-11	FALSE	0.16%
Benzene	GWC-12	FALSE	0.16%
Benzene	GWC-12A	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-16A	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-17	FALSE	0.16%
Benzene	GWC-18	FALSE	0.16%
Benzene	GWC-19R	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8A	TRUE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-13	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Chloroethane	GWA-1A	FALSE	1%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-22	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-10	FALSE	1%
Chloroethane	GWC-10A	FALSE	1%
Chloroethane	GWC-11	FALSE	1%
Chloroethane	GWC-12	FALSE	1%
Chloroethane	GWC-12A	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-13	FALSE	1%
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-23A	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	FALSE	0.16%
Chloroethane	GWC-11	FALSE	0.16%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Chloroethane	GWC-12	FALSE	0.16%
Chloroethane	GWC-12A	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-15	FALSE	0.16%
Chloroethane	GWC-17	FALSE	0.16%
Chloroethane	GWC-18	FALSE	0.16%
Chloroethane	GWC-19R	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-13	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-22	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	FALSE	1%
cis-1,2-Dichloroethene	GWC-11	FALSE	1%
cis-1,2-Dichloroethene	GWC-12	FALSE	1%
cis-1,2-Dichloroethene	GWC-12A	FALSE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-16A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-17	TRUE	1%
cis-1,2-Dichloroethene	GWC-18	TRUE	1%
cis-1,2-Dichloroethene	GWC-19R	TRUE	1%
cis-1,2-Dichloroethene	GWC-24	TRUE	1%
cis-1,2-Dichloroethene	GWC-8	FALSE	1%
cis-1,2-Dichloroethene	GWC-8A	TRUE	1%
cis-1,2-Dichloroethene	GWC-8R	TRUE	1%
cis-1,2-Dichloroethene	GWC-13	FALSE	1%
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-4A	FALSE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-10A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-11	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-12	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-12A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-16A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-14A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-17	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-18	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-13	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWA-1A	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-10	FALSE	1%
Tetrachloroethene	GWC-10A	FALSE	1%
Tetrachloroethene	GWC-11	FALSE	1%
Tetrachloroethene	GWC-12	FALSE	1%
Tetrachloroethene	GWC-12A	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	TRUE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%

Notes:

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWA-1A	FALSE	0.16%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-10	FALSE	0.16%
Tetrachloroethene	GWC-10A	FALSE	0.16%
Tetrachloroethene	GWC-11	FALSE	0.16%
Tetrachloroethene	GWC-12	FALSE	0.16%
Tetrachloroethene	GWC-12A	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	FALSE	0.16%
Tetrachloroethene	GWC-15	TRUE	0.16%
Tetrachloroethene	GWC-17	FALSE	0.16%
Tetrachloroethene	GWC-18	TRUE	0.16%
Tetrachloroethene	GWC-19R	FALSE	0.16%
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-13	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Toluene	GWA-1A	FALSE	1%
Toluene	GWA-3	FALSE	1%
Toluene	GWC-22	FALSE	1%
Toluene	GWC-23	FALSE	1%
Toluene	GWC-23A	FALSE	1%
Toluene	GWC-5	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-7	FALSE	1%
Toluene	GWC-10	FALSE	1%
Toluene	GWC-10A	FALSE	1%
Toluene	GWC-11	FALSE	1%
Toluene	GWC-12	FALSE	1%
Toluene	GWC-12A	FALSE	1%
Toluene	GWC-6	FALSE	1%
Toluene	GWC-16A	FALSE	1%
Toluene	GWC-14	FALSE	1%
Toluene	GWC-14A	FALSE	1%
Toluene	GWC-14R	FALSE	1%
Toluene	GWC-15	FALSE	1%
Toluene	GWC-17	FALSE	1%
Toluene	GWC-18	FALSE	1%
Toluene	GWC-19R	FALSE	1%
Toluene	GWC-24	FALSE	1%
Toluene	GWC-8	FALSE	1%
Toluene	GWC-8A	FALSE	1%
Toluene	GWC-8R	FALSE	1%
Toluene	GWC-13	FALSE	1%
Toluene	GWC-2	FALSE	1%
Toluene	GWC-3A	FALSE	1%
Toluene	GWC-4	FALSE	1%
Toluene	GWC-4A	FALSE	1%
Toluene	GWC-9	FALSE	1%
Toluene	GWC-3	FALSE	1%
Toluene	GWA-1A	FALSE	0.16%
Toluene	GWA-3	FALSE	0.16%
Toluene	GWC-22	FALSE	0.16%
Toluene	GWC-23	FALSE	0.16%
Toluene	GWC-23A	FALSE	0.16%
Toluene	GWC-5	FALSE	0.16%
Toluene	GWC-7	FALSE	0.16%
Toluene	GWC-10	FALSE	0.16%
Toluene	GWC-10A	FALSE	0.16%
Toluene	GWC-11	FALSE	0.16%
Toluene	GWC-12	FALSE	0.16%
Toluene	GWC-12A	FALSE	0.16%
Toluene	GWC-6	FALSE	0.16%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-16A	FALSE	0.16%
Toluene	GWC-14	FALSE	0.16%
Toluene	GWC-14A	FALSE	0.16%
Toluene	GWC-14R	FALSE	0.16%
Toluene	GWC-15	FALSE	0.16%
Toluene	GWC-17	FALSE	0.16%
Toluene	GWC-18	FALSE	0.16%
Toluene	GWC-19R	FALSE	0.16%
Toluene	GWC-24	FALSE	0.16%
Toluene	GWC-8	FALSE	0.16%
Toluene	GWC-8A	FALSE	0.16%
Toluene	GWC-8R	FALSE	0.16%
Toluene	GWC-13	FALSE	0.16%
Toluene	GWC-2	FALSE	0.16%
Toluene	GWC-3A	FALSE	0.16%
Toluene	GWC-4	FALSE	0.16%
Toluene	GWC-4A	FALSE	0.16%
Toluene	GWC-9	FALSE	0.16%
Toluene	GWC-3	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	1%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-10	FALSE	1%
Trichloroethene	GWC-10A	FALSE	1%
Trichloroethene	GWC-11	FALSE	1%
Trichloroethene	GWC-12	FALSE	1%
Trichloroethene	GWC-12A	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-14A	TRUE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-17	FALSE	1%
Trichloroethene	GWC-18	TRUE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	FALSE	1%
Trichloroethene	GWC-13	FALSE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%
Trichloroethene	GWC-10A	FALSE	0.16%
Trichloroethene	GWC-11	FALSE	0.16%
Trichloroethene	GWC-12	FALSE	0.16%
Trichloroethene	GWC-12A	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-14A	TRUE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-15	TRUE	0.16%
Trichloroethene	GWC-17	FALSE	0.16%
Trichloroethene	GWC-18	FALSE	0.16%
Trichloroethene	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-13	FALSE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	FALSE	1%
Vinyl chloride	GWC-11	FALSE	1%
Vinyl chloride	GWC-12	FALSE	1%
Vinyl chloride	GWC-12A	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-15	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-13	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	0.16%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Vinyl chloride	GWC-22	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%
Vinyl chloride	GWC-10	FALSE	0.16%
Vinyl chloride	GWC-10A	FALSE	0.16%
Vinyl chloride	GWC-11	FALSE	0.16%
Vinyl chloride	GWC-12	FALSE	0.16%
Vinyl chloride	GWC-12A	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-16A	FALSE	0.16%
Vinyl chloride	GWC-14	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-15	FALSE	0.16%
Vinyl chloride	GWC-17	FALSE	0.16%
Vinyl chloride	GWC-18	FALSE	0.16%
Vinyl chloride	GWC-19R	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWC-8	FALSE	0.16%
Vinyl chloride	GWC-8A	FALSE	0.16%
Vinyl chloride	GWC-8R	FALSE	0.16%
Vinyl chloride	GWC-13	FALSE	0.16%
Vinyl chloride	GWC-2	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%
Vinyl chloride	GWC-4A	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Total Barium	GWA-1A	FALSE	1%
Total Barium	GWC-23A	FALSE	1%
Total Barium	GWA-3	FALSE	1%
Total Barium	GWC-22	FALSE	1%
Total Barium	GWC-23	FALSE	1%
Total Barium	GWC-5	FALSE	1%
Total Barium	GWC-7	TRUE	1%
Total Barium	GWC-10	FALSE	1%
Total Barium	GWC-10A	FALSE	1%

Notes:

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-11	FALSE	1%
Total Barium	GWC-12	FALSE	1%
Total Barium	GWC-12A	FALSE	1%
Total Barium	GWC-14A	TRUE	1%
Total Barium	GWC-6	FALSE	1%
Total Barium	GWC-16A	FALSE	1%
Total Barium	GWC-14	FALSE	1%
Total Barium	GWC-15	TRUE	1%
Total Barium	GWC-17	TRUE	1%
Total Barium	GWC-18	TRUE	1%
Total Barium	GWC-19R	TRUE	1%
Total Barium	GWC-8	FALSE	1%
Total Barium	GWC-8A	TRUE	1%
Total Barium	GWC-13	FALSE	1%
Total Barium	GWC-2	FALSE	1%
Total Barium	GWC-3A	TRUE	1%
Total Barium	GWC-4	FALSE	1%
Total Barium	GWC-4A	FALSE	1%
Total Barium	GWC-9	TRUE	1%
Total Barium	GWC-24	FALSE	1%
Total Barium	GWC-3	FALSE	1%
Total Barium	GWA-1A	FALSE	0.17%
Total Barium	GWC-23A	FALSE	0.17%
Total Barium	GWA-3	FALSE	0.17%
Total Barium	GWC-22	FALSE	0.17%
Total Barium	GWC-23	FALSE	0.17%
Total Barium	GWC-5	FALSE	0.17%
Total Barium	GWC-7	FALSE	0.17%
Total Barium	GWC-10	FALSE	0.17%
Total Barium	GWC-10A	FALSE	0.17%
Total Barium	GWC-11	FALSE	0.17%
Total Barium	GWC-12	FALSE	0.17%
Total Barium	GWC-12A	FALSE	0.17%
Total Barium	GWC-14A	TRUE	0.17%
Total Barium	GWC-6	FALSE	0.17%
Total Barium	GWC-16A	FALSE	0.17%
Total Barium	GWC-14	FALSE	0.17%
Total Barium	GWC-15	TRUE	0.17%
Total Barium	GWC-17	FALSE	0.17%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Total Barium	GWC-18	TRUE	0.17%
Total Barium	GWC-19R	TRUE	0.17%
Total Barium	GWC-8	FALSE	0.17%
Total Barium	GWC-8A	FALSE	0.17%
Total Barium	GWC-13	FALSE	0.17%
Total Barium	GWC-2	FALSE	0.17%
Total Barium	GWC-3A	FALSE	0.17%
Total Barium	GWC-4	FALSE	0.17%
Total Barium	GWC-4A	FALSE	0.17%
Total Barium	GWC-9	TRUE	0.17%
Total Barium	GWC-24	FALSE	0.17%
Total Barium	GWC-3	FALSE	0.17%
Total Chromium	GWA-1A	FALSE	1%
Total Chromium	GWC-23A	FALSE	1%
Total Chromium	GWA-3	FALSE	1%
Total Chromium	GWC-22	FALSE	1%
Total Chromium	GWC-23	FALSE	1%
Total Chromium	GWC-5	FALSE	1%
Total Chromium	GWC-7	FALSE	1%
Total Chromium	GWC-10	FALSE	1%
Total Chromium	GWC-10A	FALSE	1%
Total Chromium	GWC-11	FALSE	1%
Total Chromium	GWC-12	FALSE	1%
Total Chromium	GWC-12A	FALSE	1%
Total Chromium	GWC-14A	FALSE	1%
Total Chromium	GWC-6	FALSE	1%
Total Chromium	GWC-16A	FALSE	1%
Total Chromium	GWC-14	FALSE	1%
Total Chromium	GWC-15	FALSE	1%
Total Chromium	GWC-17	FALSE	1%
Total Chromium	GWC-18	FALSE	1%
Total Chromium	GWC-19R	FALSE	1%
Total Chromium	GWC-8	FALSE	1%
Total Chromium	GWC-8A	FALSE	1%
Total Chromium	GWC-13	FALSE	1%
Total Chromium	GWC-2	FALSE	1%
Total Chromium	GWC-3A	FALSE	1%
Total Chromium	GWC-4	FALSE	1%
Total Chromium	GWC-4A	FALSE	1%

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**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Total Chromium	GWC-9	FALSE	1%
Total Chromium	GWC-24	FALSE	1%
Total Chromium	GWC-3	FALSE	1%
Total Chromium	GWA-1A	FALSE	0.17%
Total Chromium	GWC-23A	FALSE	0.17%
Total Chromium	GWA-3	FALSE	0.17%
Total Chromium	GWC-22	FALSE	0.17%
Total Chromium	GWC-23	FALSE	0.17%
Total Chromium	GWC-5	FALSE	0.17%
Total Chromium	GWC-7	FALSE	0.17%
Total Chromium	GWC-10	FALSE	0.17%
Total Chromium	GWC-10A	FALSE	0.17%
Total Chromium	GWC-11	FALSE	0.17%
Total Chromium	GWC-12	FALSE	0.17%
Total Chromium	GWC-12A	FALSE	0.17%
Total Chromium	GWC-14A	FALSE	0.17%
Total Chromium	GWC-6	FALSE	0.17%
Total Chromium	GWC-16A	FALSE	0.17%
Total Chromium	GWC-14	FALSE	0.17%
Total Chromium	GWC-15	FALSE	0.17%
Total Chromium	GWC-17	FALSE	0.17%
Total Chromium	GWC-18	FALSE	0.17%
Total Chromium	GWC-19R	FALSE	0.17%
Total Chromium	GWC-8	FALSE	0.17%
Total Chromium	GWC-8A	FALSE	0.17%
Total Chromium	GWC-13	FALSE	0.17%
Total Chromium	GWC-2	FALSE	0.17%
Total Chromium	GWC-3A	FALSE	0.17%
Total Chromium	GWC-4	FALSE	0.17%
Total Chromium	GWC-4A	FALSE	0.17%
Total Chromium	GWC-9	FALSE	0.17%
Total Chromium	GWC-24	FALSE	0.17%
Total Chromium	GWC-3	FALSE	0.17%
Total Cobalt	GWA-1A	FALSE	1%
Total Cobalt	GWC-23A	FALSE	1%
Total Cobalt	GWA-3	FALSE	1%
Total Cobalt	GWC-22	FALSE	1%
Total Cobalt	GWC-23	FALSE	1%
Total Cobalt	GWC-5	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-7	FALSE	1%
Total Cobalt	GWC-10	FALSE	1%
Total Cobalt	GWC-10A	FALSE	1%
Total Cobalt	GWC-11	FALSE	1%
Total Cobalt	GWC-12	FALSE	1%
Total Cobalt	GWC-12A	FALSE	1%
Total Cobalt	GWC-14A	TRUE	1%
Total Cobalt	GWC-6	FALSE	1%
Total Cobalt	GWC-16A	FALSE	1%
Total Cobalt	GWC-14	TRUE	1%
Total Cobalt	GWC-15	FALSE	1%
Total Cobalt	GWC-17	FALSE	1%
Total Cobalt	GWC-18	FALSE	1%
Total Cobalt	GWC-19R	FALSE	1%
Total Cobalt	GWC-8	FALSE	1%
Total Cobalt	GWC-8A	FALSE	1%
Total Cobalt	GWC-13	FALSE	1%
Total Cobalt	GWC-2	FALSE	1%
Total Cobalt	GWC-3A	FALSE	1%
Total Cobalt	GWC-4	FALSE	1%
Total Cobalt	GWC-4A	FALSE	1%
Total Cobalt	GWC-9	FALSE	1%
Total Cobalt	GWC-24	FALSE	1%
Total Cobalt	GWC-3	FALSE	1%
Total Cobalt	GWA-1A	FALSE	0.17%
Total Cobalt	GWC-23A	FALSE	0.17%
Total Cobalt	GWA-3	FALSE	0.17%
Total Cobalt	GWC-22	FALSE	0.17%
Total Cobalt	GWC-23	FALSE	0.17%
Total Cobalt	GWC-5	FALSE	0.17%
Total Cobalt	GWC-7	FALSE	0.17%
Total Cobalt	GWC-10	FALSE	0.17%
Total Cobalt	GWC-10A	FALSE	0.17%
Total Cobalt	GWC-11	FALSE	0.17%
Total Cobalt	GWC-12	FALSE	0.17%
Total Cobalt	GWC-12A	FALSE	0.17%
Total Cobalt	GWC-14A	TRUE	0.17%
Total Cobalt	GWC-6	FALSE	0.17%
Total Cobalt	GWC-16A	FALSE	0.17%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Total Cobalt	GWC-14	TRUE	0.17%
Total Cobalt	GWC-15	FALSE	0.17%
Total Cobalt	GWC-17	FALSE	0.17%
Total Cobalt	GWC-18	FALSE	0.17%
Total Cobalt	GWC-19R	FALSE	0.17%
Total Cobalt	GWC-8	FALSE	0.17%
Total Cobalt	GWC-8A	FALSE	0.17%
Total Cobalt	GWC-13	FALSE	0.17%
Total Cobalt	GWC-2	FALSE	0.17%
Total Cobalt	GWC-3A	FALSE	0.17%
Total Cobalt	GWC-4	FALSE	0.17%
Total Cobalt	GWC-4A	FALSE	0.17%
Total Cobalt	GWC-9	FALSE	0.17%
Total Cobalt	GWC-24	FALSE	0.17%
Total Cobalt	GWC-3	FALSE	0.17%
Total Nickel	GWA-1A	FALSE	1%
Total Nickel	GWC-23A	FALSE	1%
Total Nickel	GWA-3	FALSE	1%
Total Nickel	GWC-22	FALSE	1%
Total Nickel	GWC-23	FALSE	1%
Total Nickel	GWC-5	FALSE	1%
Total Nickel	GWC-7	FALSE	1%
Total Nickel	GWC-10	FALSE	1%
Total Nickel	GWC-10A	FALSE	1%
Total Nickel	GWC-11	FALSE	1%
Total Nickel	GWC-12	FALSE	1%
Total Nickel	GWC-12A	FALSE	1%
Total Nickel	GWC-14A	TRUE	1%
Total Nickel	GWC-6	FALSE	1%
Total Nickel	GWC-16A	FALSE	1%
Total Nickel	GWC-14	FALSE	1%
Total Nickel	GWC-15	FALSE	1%
Total Nickel	GWC-17	FALSE	1%
Total Nickel	GWC-18	FALSE	1%
Total Nickel	GWC-19R	FALSE	1%
Total Nickel	GWC-8	FALSE	1%
Total Nickel	GWC-8A	FALSE	1%
Total Nickel	GWC-13	FALSE	1%
Total Nickel	GWC-2	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

**Forsyth County - Hightower Road MSWLF - Phases II-IV**  
**First 2020 Groundwater Monitoring Event**  
**Kruskal-Wallis Statistical Analysis Summary**

<b>Parameter Name</b>	<b>Well ID</b>	<b>Statistically Significant</b>	<b>Confidence Level</b>
Total Nickel	GWC-3A	FALSE	1%
Total Nickel	GWC-4	FALSE	1%
Total Nickel	GWC-4A	FALSE	1%
Total Nickel	GWC-9	FALSE	1%
Total Nickel	GWC-24	FALSE	1%
Total Nickel	GWC-3	FALSE	1%
Total Nickel	GWA-1A	FALSE	0.17%
Total Nickel	GWC-23A	FALSE	0.17%
Total Nickel	GWA-3	FALSE	0.17%
Total Nickel	GWC-22	FALSE	0.17%
Total Nickel	GWC-23	FALSE	0.17%
Total Nickel	GWC-5	FALSE	0.17%
Total Nickel	GWC-7	FALSE	0.17%
Total Nickel	GWC-10	FALSE	0.17%
Total Nickel	GWC-10A	FALSE	0.17%
Total Nickel	GWC-11	FALSE	0.17%
Total Nickel	GWC-12	FALSE	0.17%
Total Nickel	GWC-12A	FALSE	0.17%
Total Nickel	GWC-14A	TRUE	0.17%
Total Nickel	GWC-6	FALSE	0.17%
Total Nickel	GWC-16A	FALSE	0.17%
Total Nickel	GWC-14	FALSE	0.17%
Total Nickel	GWC-15	FALSE	0.17%
Total Nickel	GWC-17	FALSE	0.17%
Total Nickel	GWC-18	FALSE	0.17%
Total Nickel	GWC-19R	FALSE	0.17%
Total Nickel	GWC-8	FALSE	0.17%
Total Nickel	GWC-8A	FALSE	0.17%
Total Nickel	GWC-13	FALSE	0.17%
Total Nickel	GWC-2	FALSE	0.17%
Total Nickel	GWC-3A	FALSE	0.17%
Total Nickel	GWC-4	FALSE	0.17%
Total Nickel	GWC-4A	FALSE	0.17%
Total Nickel	GWC-9	FALSE	0.17%
Total Nickel	GWC-24	FALSE	0.17%
Total Nickel	GWC-3	FALSE	0.17%
Total Zinc	GWA-1A	FALSE	1%
Total Zinc	GWC-23A	FALSE	1%
Total Zinc	GWA-3	FALSE	1%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-22	FALSE	1%
Total Zinc	GWC-23	FALSE	1%
Total Zinc	GWC-5	FALSE	1%
Total Zinc	GWC-7	FALSE	1%
Total Zinc	GWC-10	FALSE	1%
Total Zinc	GWC-10A	FALSE	1%
Total Zinc	GWC-11	FALSE	1%
Total Zinc	GWC-12	FALSE	1%
Total Zinc	GWC-12A	FALSE	1%
Total Zinc	GWC-14A	FALSE	1%
Total Zinc	GWC-6	FALSE	1%
Total Zinc	GWC-16A	FALSE	1%
Total Zinc	GWC-14	FALSE	1%
Total Zinc	GWC-15	FALSE	1%
Total Zinc	GWC-17	FALSE	1%
Total Zinc	GWC-18	FALSE	1%
Total Zinc	GWC-19R	FALSE	1%
Total Zinc	GWC-8	FALSE	1%
Total Zinc	GWC-8A	FALSE	1%
Total Zinc	GWC-13	FALSE	1%
Total Zinc	GWC-2	FALSE	1%
Total Zinc	GWC-3A	FALSE	1%
Total Zinc	GWC-4	FALSE	1%
Total Zinc	GWC-4A	FALSE	1%
Total Zinc	GWC-9	TRUE	1%
Total Zinc	GWC-24	FALSE	1%
Total Zinc	GWC-3	FALSE	1%
Total Zinc	GWA-1A	FALSE	0.17%
Total Zinc	GWC-23A	FALSE	0.17%
Total Zinc	GWA-3	FALSE	0.17%
Total Zinc	GWC-22	FALSE	0.17%
Total Zinc	GWC-23	FALSE	0.17%
Total Zinc	GWC-5	FALSE	0.17%
Total Zinc	GWC-7	FALSE	0.17%
Total Zinc	GWC-10	FALSE	0.17%
Total Zinc	GWC-10A	FALSE	0.17%
Total Zinc	GWC-11	FALSE	0.17%
Total Zinc	GWC-12	FALSE	0.17%
Total Zinc	GWC-12A	FALSE	0.17%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-14A	FALSE	0.17%
Total Zinc	GWC-6	FALSE	0.17%
Total Zinc	GWC-16A	FALSE	0.17%
Total Zinc	GWC-14	FALSE	0.17%
Total Zinc	GWC-15	FALSE	0.17%
Total Zinc	GWC-17	FALSE	0.17%
Total Zinc	GWC-18	FALSE	0.17%
Total Zinc	GWC-19R	FALSE	0.17%
Total Zinc	GWC-8	FALSE	0.17%
Total Zinc	GWC-8A	FALSE	0.17%
Total Zinc	GWC-13	FALSE	0.17%
Total Zinc	GWC-2	FALSE	0.17%
Total Zinc	GWC-3A	FALSE	0.17%
Total Zinc	GWC-4	FALSE	0.17%
Total Zinc	GWC-4A	FALSE	0.17%
Total Zinc	GWC-9	FALSE	0.17%
Total Zinc	GWC-24	FALSE	0.17%
Total Zinc	GWC-3	FALSE	0.17%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

### Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	168
	6/23/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/13/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
	12/9/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016

Rank Mean = 168

GWA-2	12/9/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/13/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168
	12/11/2019	ND<1	168
	6/22/2020	ND<1	168

Rank Sum = 2016

Rank Mean = 168

Background Rank Sum = 4032

Background Rank Mean = 168

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	168
	6/23/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/12/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/10/2019	ND<1	168
	12/9/2019	ND<1	168

6/23/2020 ND<1 168

Rank Sum = 2016

Rank Mean = 168

GWA-3	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/13/2016	ND<1	168
	12/8/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168
	12/10/2019	ND<1	168
	6/22/2020	ND<1	168

Rank Sum = 2016

Rank Mean = 168

GWC-22	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016

Rank Mean = 168

GWC-23	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016

Rank Mean = 168

GWC-23A	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168

	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-5	12/8/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/12/2017	ND<1	168
	12/12/2017	ND<1	168
	6/21/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/10/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-7	12/8/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/15/2016	ND<1	168
	12/8/2016	ND<1	168
	6/12/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-10	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
	12/12/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-10A	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168

	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
	12/12/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-11	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
	12/12/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-12	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168
	12/9/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-12A	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168
	12/9/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

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GWC-6	12/9/2014	ND<1	168
	6/22/2015	ND<1	168



12/8/2015	ND<1	168
6/14/2016	ND<1	168
12/8/2016	ND<1	168
6/12/2017	ND<1	168
12/13/2017	ND<1	168
6/21/2018	ND<1	168
12/19/2018	ND<1	168
6/12/2019	ND<1	168
12/10/2019	ND<1	168
6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-16A	12/10/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	5.5	355
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	3.7	345
	12/13/2017	ND<1	168
	6/21/2018	ND<1	168
	12/19/2018	ND<1	168
	6/13/2019	ND<1	168
	12/11/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2380  
Rank Mean = 198.333

GWC-14	12/10/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	6/13/2017	ND<1	168
	6/20/2018	ND<1	168
	6/11/2019	ND<1	168
	12/10/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 1512  
Rank Mean = 168

GWC-14A	12/10/2014	19	380
	6/23/2015	13	361
	12/9/2015	16	370
	6/15/2016	16	371
	12/8/2016	22	384
	6/13/2017	16	372
	12/12/2017	23	388
	6/20/2018	17	375
	12/19/2018	16	373
	6/11/2019	9.2	357
	12/10/2019	14	364
	6/24/2020	10	359

Rank Sum = 4454  
Rank Mean = 371.167

GWC-14R	12/10/2014	30	393
	6/23/2015	25	391

12/10/2015	22	385
6/15/2016	26	392
12/8/2016	24	390
6/13/2017	21	383
12/12/2017	20	382
6/20/2018	22	386
12/19/2018	18	376
6/12/2019	18	377
12/10/2019	14	365
6/23/2020	18	378

Rank Sum = 4598  
Rank Mean = 383.167

GWC-15	12/10/2014	5.4	354
	6/23/2015	ND<1	168
	12/9/2015	5.2	353
	6/15/2016	ND<1	168
	12/8/2016	38	394
	6/14/2017	2.9	339
	12/13/2017	3.7	346
	6/19/2018	ND<1	168
	12/19/2018	3	341
	6/11/2019	38	395
	12/10/2019	23	389
	6/25/2020	39	396

Rank Sum = 3811  
Rank Mean = 317.583

GWC-17	12/10/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/13/2016	ND<1	168
	6/14/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
	12/10/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 1848  
Rank Mean = 168

GWC-18	12/10/2014	2.9	340
	6/22/2015	2.7	338
	12/9/2015	ND<1	168
	6/13/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/11/2019	ND<1	168
	12/9/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2358  
Rank Mean = 196.5

GWC-19R	12/10/2014	ND<1	168
	6/22/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/11/2019	ND<1	168
	12/9/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-24	12/10/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/13/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168
	12/9/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-8	12/10/2014	ND<1	168
	6/23/2015	ND<1	168
	12/10/2015	ND<1	168
	6/15/2016	ND<1	168
	12/8/2016	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 1848  
Rank Mean = 168

GWC-8A	12/10/2014	6.1	356
	6/24/2015	3	342
	12/10/2015	3.8	348
	6/15/2016	3.4	344
	12/8/2016	5.1	352
	6/13/2017	3	343
	12/12/2017	4.9	351
	6/20/2018	3.9	349
	12/19/2018	4.2	350
	6/12/2019	2.6	337
	12/11/2019	3.7	347
	6/23/2020	2.4	336

Rank Sum = 4155

Rank Mean = 346.25

GWC-8R	12/10/2014	19	381
	6/23/2015	16	374
	12/10/2015	18	379
	6/15/2016	15	368
	12/8/2016	15	369
	6/13/2017	14	366
	12/12/2017	14	367
	6/20/2018	22	387
	12/19/2018	13	362
	6/12/2019	12	360
	12/11/2019	9.3	358
	6/23/2020	13	363

Rank Sum = 4434  
Rank Mean = 369.5

GWC-13	12/11/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/15/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
	12/11/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-2	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/13/2017	ND<1	168
	6/20/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
	12/10/2019	ND<1	168
	6/22/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-3A	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168

	12/10/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-4	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/20/2018	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 1176  
Rank Mean = 168

GWC-4A	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/13/2017	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168
	12/11/2019	ND<1	168
	6/23/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-9	12/11/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/13/2017	ND<1	168
	6/20/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
	12/12/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 2016  
Rank Mean = 168

GWC-3	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	6/21/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168
	12/10/2019	ND<1	168
	6/24/2020	ND<1	168

Rank Sum = 1680  
Rank Mean = 168

**Calculation Results:**

Kruskal-Wallis H Statistic = 140.47

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 355.987

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**140.47 > 46.1942 indicating a significant group difference at 5% significance level**

**355.987 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 168

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	168	0	94.1414
GWA-3	168	0	94.1414
GWC-22	168	0	94.1414
GWC-23	168	0	94.1414
GWC-23A	168	0	94.1414
GWC-5	168	0	94.1414
GWC-7	168	0	94.1414
GWC-10	168	0	94.1414
GWC-10A	168	0	94.1414
GWC-11	168	0	94.1414
GWC-12	168	0	94.1414
GWC-12A	168	0	94.1414
GWC-6	168	0	94.1414
GWC-16A	198.333	30.3333	94.1414
GWC-14	168	0	104.077
<b>GWC-14A</b>	<b>371.167</b>	<b>203.167</b>	<b>94.1414</b>
<b>GWC-14R</b>	<b>383.167</b>	<b>215.167</b>	<b>94.1414</b>
<b>GWC-15</b>	<b>317.583</b>	<b>149.583</b>	<b>94.1414</b>
GWC-17	168	0	96.9522
GWC-18	196.5	28.5	94.1414
GWC-19R	168	0	94.1414
GWC-24	168	0	94.1414
GWC-8	168	0	96.9522
<b>GWC-8A</b>	<b>346.25</b>	<b>178.25</b>	<b>94.1414</b>
<b>GWC-8R</b>	<b>369.5</b>	<b>201.5</b>	<b>94.1414</b>
GWC-13	168	0	94.1414
GWC-2	168	0	94.1414
GWC-3A	168	0	94.1414
GWC-4	168	0	114.38
GWC-4A	168	0	94.1414
GWC-9	168	0	94.1414
GWC-3	168	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 168

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	168	0	125.055
GWA-3	168	0	125.055
GWC-22	168	0	125.055
GWC-23	168	0	125.055
GWC-23A	168	0	125.055

GWC-5	168	0	125.055
GWC-7	168	0	125.055
GWC-10	168	0	125.055
GWC-10A	168	0	125.055
GWC-11	168	0	125.055
GWC-12	168	0	125.055
GWC-12A	168	0	125.055
GWC-6	168	0	125.055
GWC-16A	198.333	30.3333	125.055
GWC-14	168	0	138.253
<b>GWC-14A</b>	<b>371.167</b>	<b>203.167</b>	<b>125.055</b>
<b>GWC-14R</b>	<b>383.167</b>	<b>215.167</b>	<b>125.055</b>
<b>GWC-15</b>	<b>317.583</b>	<b>149.583</b>	<b>125.055</b>
GWC-17	168	0	128.789
GWC-18	196.5	28.5	125.055
GWC-19R	168	0	125.055
GWC-24	168	0	125.055
GWC-8	168	0	128.789
<b>GWC-8A</b>	<b>346.25</b>	<b>178.25</b>	<b>125.055</b>
<b>GWC-8R</b>	<b>369.5</b>	<b>201.5</b>	<b>125.055</b>
GWC-13	168	0	125.055
GWC-2	168	0	125.055
GWC-3A	168	0	125.055
GWC-4	168	0	151.94
GWC-4A	168	0	125.055
GWC-9	168	0	125.055
GWC-3	168	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-2	12/9/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/22/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

Background Rank Sum = 4740

Background Rank Mean = 197.5

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
	12/9/2019	ND<50	197.5

6/23/2020 ND<50 197.5  
Rank Sum = 2370  
Rank Mean = 197.5

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GWA-3 12/8/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/7/2015 ND<50 197.5  
6/13/2016 ND<50 197.5  
12/8/2016 ND<50 197.5  
6/14/2017 ND<50 197.5  
12/11/2017 ND<50 197.5  
6/18/2018 ND<50 197.5  
12/17/2018 ND<50 197.5  
6/11/2019 ND<50 197.5  
12/10/2019 ND<50 197.5  
6/22/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-22 12/8/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/9/2015 ND<50 197.5  
6/15/2016 ND<50 197.5  
12/6/2016 ND<50 197.5  
6/14/2017 ND<50 197.5  
12/11/2017 ND<50 197.5  
6/19/2018 ND<50 197.5  
12/18/2018 ND<50 197.5  
6/12/2019 ND<50 197.5  
12/11/2019 ND<50 197.5  
6/23/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-23 12/8/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/8/2015 ND<50 197.5  
6/15/2016 ND<50 197.5  
12/6/2016 ND<50 197.5  
6/14/2017 ND<50 197.5  
12/11/2017 ND<50 197.5  
6/18/2018 ND<50 197.5  
12/18/2018 ND<50 197.5  
6/12/2019 ND<50 197.5  
12/11/2019 ND<50 197.5  
6/24/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-23A 12/8/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/8/2015 ND<50 197.5  
6/15/2016 ND<50 197.5  
12/6/2016 ND<50 197.5  
6/14/2017 ND<50 197.5  
12/11/2017 ND<50 197.5  
6/18/2018 ND<50 197.5

12/18/2018 ND<50 197.5  
6/12/2019 ND<50 197.5  
12/11/2019 ND<50 197.5  
6/24/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-5 12/8/2014 ND<50 197.5  
6/24/2015 ND<50 197.5  
12/7/2015 ND<50 197.5  
6/14/2016 ND<50 197.5  
12/8/2016 ND<50 197.5  
6/12/2017 ND<50 197.5  
12/12/2017 ND<50 197.5  
6/21/2018 ND<50 197.5  
12/18/2018 ND<50 197.5  
6/12/2019 ND<50 197.5  
12/10/2019 ND<50 197.5  
6/23/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-7 12/8/2014 ND<50 197.5  
6/24/2015 ND<50 197.5  
12/7/2015 ND<50 197.5  
6/15/2016 ND<50 197.5  
12/8/2016 ND<50 197.5  
6/12/2017 ND<50 197.5  
12/12/2017 ND<50 197.5  
6/19/2018 ND<50 197.5  
12/18/2018 ND<50 197.5  
6/12/2019 ND<50 197.5  
12/11/2019 ND<50 197.5  
6/24/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-10 12/9/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/7/2015 ND<50 197.5  
6/14/2016 ND<50 197.5  
12/8/2016 ND<50 197.5  
6/15/2017 ND<50 197.5  
12/12/2017 ND<50 197.5  
6/19/2018 ND<50 197.5  
12/17/2018 ND<50 197.5  
6/10/2019 ND<50 197.5  
12/12/2019 ND<50 197.5  
6/24/2020 ND<50 197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-10A 12/9/2014 ND<50 197.5  
6/22/2015 ND<50 197.5  
12/7/2015 ND<50 197.5  
6/14/2016 ND<50 197.5  
12/8/2016 ND<50 197.5

6/15/2017	ND<50	197.5
12/12/2017	ND<50	197.5
6/19/2018	ND<50	197.5
12/17/2018	ND<50	197.5
6/10/2019	ND<50	197.5
12/12/2019	ND<50	197.5
6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-11	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/12/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-12	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-12A	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-6	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5

12/8/2015	ND<50	197.5
6/14/2016	ND<50	197.5
12/8/2016	ND<50	197.5
6/12/2017	ND<50	197.5
12/13/2017	ND<50	197.5
6/21/2018	ND<50	197.5
12/19/2018	ND<50	197.5
6/12/2019	ND<50	197.5
12/10/2019	ND<50	197.5
6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-16A	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	1300	395
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	1500	396
	12/13/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/13/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2766  
Rank Mean = 230.5

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GWC-14	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 1777.5  
Rank Mean = 197.5

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GWC-14A	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

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GWC-14R	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5

12/10/2015	ND<50	197.5
6/15/2016	ND<50	197.5
12/8/2016	ND<50	197.5
6/13/2017	ND<50	197.5
12/12/2017	ND<50	197.5
6/20/2018	ND<50	197.5
12/19/2018	ND<50	197.5
6/12/2019	ND<50	197.5
12/10/2019	ND<50	197.5
6/23/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-15	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/25/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-17	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2172.5  
Rank Mean = 197.5

GWC-18	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-19R	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-24	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/9/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-8	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2172.5  
Rank Mean = 197.5

GWC-8A	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-8R	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-13	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-2	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/22/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-3A	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

12/10/2019	ND<50	197.5
6/24/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-4	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/20/2018	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 1382.5

Rank Mean = 197.5

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GWC-4A	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/11/2019	ND<50	197.5
	6/23/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-9	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5
	12/12/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 2370

Rank Mean = 197.5

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GWC-3	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
	12/10/2019	ND<50	197.5
	6/24/2020	ND<50	197.5

Rank Sum = 1975

Rank Mean = 197.5



**Calculation Results:**

Kruskal-Wallis H Statistic = 0.967254

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.162

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

0.967254 < 46.1942 indicating no significant group difference at 5% significance level

**64.162 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	197.5	0	94.1414
GWA-3	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-5	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-16A	230.5	33	94.1414
GWC-14	197.5	0	104.077
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-24	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-2	197.5	0	94.1414
GWC-3A	197.5	0	94.1414
GWC-4	197.5	0	114.38
GWC-4A	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWC-3	197.5	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	197.5	0	125.055
GWA-3	197.5	0	125.055
GWC-22	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-23A	197.5	0	125.055

GWC-5	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-16A	230.5	33	125.055
GWC-14	197.5	0	138.253
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-24	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-13	197.5	0	125.055
GWC-2	197.5	0	125.055
GWC-3A	197.5	0	125.055
GWC-4	197.5	0	151.94
GWC-4A	197.5	0	125.055
GWC-9	197.5	0	125.055
GWC-3	197.5	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWA-2	12/9/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/22/2020	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

Background Rank Sum = 4452

Background Rank Mean = 185.5

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/9/2019	ND<1	185.5

6/23/2020 ND<1 185.5

Rank Sum = 2226

Rank Mean = 185.5

GWA-3	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/22/2020	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-22	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-23	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226

Rank Mean = 185.5

GWC-23A	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5

12/18/2018	ND<1	185.5
6/12/2019	ND<1	185.5
12/11/2019	ND<1	185.5
6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-5	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-7	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-10	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
	12/12/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-10A	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5

6/15/2017	ND<1	185.5
12/12/2017	ND<1	185.5
6/19/2018	ND<1	185.5
12/17/2018	ND<1	185.5
6/10/2019	ND<1	185.5
12/12/2019	ND<1	185.5
6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-11	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/12/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-12	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-12A	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-6	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5

	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-16A	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015		385
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/13/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2425.5  
Rank Mean = 202.125

GWC-14	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 1669.5  
Rank Mean = 185.5

GWC-14A	12/10/2014	2.4	377
	6/23/2015	2.5	378
	12/9/2015	2.3	374
	6/15/2016	2.5	379
	12/8/2016	2.3	375
	6/13/2017	2.8	386
	12/12/2017	3	389
	6/20/2018	2.8	387
	12/19/2018	2.5	380
	6/11/2019	2.1	371
	12/10/2019	2.6	382
	6/24/2020	2.5	381

Rank Sum = 4559  
Rank Mean = 379.917

GWC-14R	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5

	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-15	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016		392
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019		390
	12/10/2019	ND<1	185.5
	6/25/2020	3.6	395

Rank Sum = 2846.5  
Rank Mean = 237.208

GWC-17	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2040.5  
Rank Mean = 185.5

GWC-18	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-19R	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-24	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/9/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-8	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2040.5  
Rank Mean = 185.5

GWC-8A	12/10/2014	3.1	391
	6/24/2015	ND<1	185.5
	12/10/2015	2.7	383
	6/15/2016	2.2	372
	12/8/2016	3.2	393
	6/13/2017	2.3	376
	12/12/2017	3.8	396
	6/20/2018	2.7	384
	12/19/2018	3.3	394
	6/12/2019	ND<1	185.5
	12/11/2019	2.8	388
	6/23/2020	ND<1	185.5

Rank Sum = 4033.5

Rank Mean = 336.125

GWC-8R	12/10/2014	2.2	373
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2413.5  
Rank Mean = 201.125

GWC-13	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-2	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/22/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-3A	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

	12/10/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-4	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/20/2018	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 1298.5  
Rank Mean = 185.5

GWC-4A	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/11/2019	ND<1	185.5
	6/23/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-9	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
	12/12/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 2226  
Rank Mean = 185.5

GWC-3	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
	12/10/2019	ND<1	185.5
	6/24/2020	ND<1	185.5

Rank Sum = 1855  
Rank Mean = 185.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 53.2201  
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 288.736  
95% Confidence comparison value is 46.1942 at 32 degrees of freedom  
**53.2201 > 46.1942 indicating a significant group difference at 5% significance level**  
**288.736 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 185.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	185.5	0	94.1414
GWA-3	185.5	0	94.1414
GWC-22	185.5	0	94.1414
GWC-23	185.5	0	94.1414
GWC-23A	185.5	0	94.1414
GWC-5	185.5	0	94.1414
GWC-7	185.5	0	94.1414
GWC-10	185.5	0	94.1414
GWC-10A	185.5	0	94.1414
GWC-11	185.5	0	94.1414
GWC-12	185.5	0	94.1414
GWC-12A	185.5	0	94.1414
GWC-6	185.5	0	94.1414
GWC-16A	202.125	16.625	94.1414
GWC-14	185.5	0	104.077
<b>GWC-14A</b>	<b>379.917</b>	<b>194.417</b>	<b>94.1414</b>
GWC-14R	185.5	0	94.1414
GWC-15	237.208	51.7083	94.1414
GWC-17	185.5	0	96.9522
GWC-18	185.5	0	94.1414
GWC-19R	185.5	0	94.1414
GWC-24	185.5	0	94.1414
GWC-8	185.5	0	96.9522
<b>GWC-8A</b>	<b>336.125</b>	<b>150.625</b>	<b>94.1414</b>
GWC-8R	201.125	15.625	94.1414
GWC-13	185.5	0	94.1414
GWC-2	185.5	0	94.1414
GWC-3A	185.5	0	94.1414
GWC-4	185.5	0	114.38
GWC-4A	185.5	0	94.1414
GWC-9	185.5	0	94.1414
GWC-3	185.5	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 185.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	185.5	0	125.055
GWA-3	185.5	0	125.055
GWC-22	185.5	0	125.055
GWC-23	185.5	0	125.055
GWC-23A	185.5	0	125.055

GWC-5	185.5	0	125.055
GWC-7	185.5	0	125.055
GWC-10	185.5	0	125.055
GWC-10A	185.5	0	125.055
GWC-11	185.5	0	125.055
GWC-12	185.5	0	125.055
GWC-12A	185.5	0	125.055
GWC-6	185.5	0	125.055
GWC-16A	202.125	16.625	125.055
GWC-14	185.5	0	138.253
<b>GWC-14A</b>	<b>379.917</b>	<b>194.417</b>	<b>125.055</b>
GWC-14R	185.5	0	125.055
GWC-15	237.208	51.7083	125.055
GWC-17	185.5	0	128.789
GWC-18	185.5	0	125.055
GWC-19R	185.5	0	125.055
GWC-24	185.5	0	125.055
GWC-8	185.5	0	128.789
<b>GWC-8A</b>	<b>336.125</b>	<b>150.625</b>	<b>125.055</b>
GWC-8R	201.125	15.625	125.055
GWC-13	185.5	0	125.055
GWC-2	185.5	0	125.055
GWC-3A	185.5	0	125.055
GWC-4	185.5	0	151.94
GWC-4A	185.5	0	125.055
GWC-9	185.5	0	125.055
GWC-3	185.5	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	190
	6/23/2015	ND<1	190
	12/8/2015	ND<1	190
	6/14/2016	ND<1	190
	12/7/2016	ND<1	190
	6/13/2017	ND<1	190
	12/11/2017	ND<1	190
	6/19/2018	ND<1	190
	12/17/2018	ND<1	190
	6/10/2019	ND<1	190
	12/9/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

GWA-2	12/9/2014	ND<1	190
	6/24/2015	ND<1	190
	12/7/2015	ND<1	190
	6/13/2016	ND<1	190
	12/8/2016	ND<1	190
	6/15/2017	ND<1	190
	12/11/2017	ND<1	190
	6/19/2018	ND<1	190
	12/17/2018	ND<1	190
	6/11/2019	ND<1	190
	12/11/2019	ND<1	190
	6/22/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

Background Rank Sum = 4560

Background Rank Mean = 190

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	190
	6/23/2015	ND<1	190
	12/8/2015	ND<1	190
	6/14/2016	ND<1	190
	12/7/2016	ND<1	190
	6/12/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/18/2018	ND<1	190
	6/10/2019	ND<1	190
	12/9/2019	ND<1	190

6/23/2020 ND<1 190  
Rank Sum = 2280  
Rank Mean = 190

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GWA-3 12/8/2014 ND<1 190  
6/22/2015 ND<1 190  
12/7/2015 ND<1 190  
6/13/2016 ND<1 190  
12/8/2016 ND<1 190  
6/14/2017 ND<1 190  
12/11/2017 ND<1 190  
6/18/2018 ND<1 190  
12/17/2018 ND<1 190  
6/11/2019 ND<1 190  
12/10/2019 ND<1 190  
6/22/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-22 12/8/2014 ND<1 190  
6/22/2015 ND<1 190  
12/9/2015 ND<1 190  
6/15/2016 ND<1 190  
12/6/2016 ND<1 190  
6/14/2017 ND<1 190  
12/11/2017 ND<1 190  
6/19/2018 ND<1 190  
12/18/2018 ND<1 190  
6/12/2019 ND<1 190  
12/11/2019 ND<1 190  
6/23/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-23 12/8/2014 ND<1 190  
6/22/2015 ND<1 190  
12/8/2015 ND<1 190  
6/15/2016 ND<1 190  
12/6/2016 ND<1 190  
6/14/2017 ND<1 190  
12/11/2017 ND<1 190  
6/18/2018 ND<1 190  
12/18/2018 ND<1 190  
6/12/2019 ND<1 190  
12/11/2019 ND<1 190  
6/24/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-23A 12/8/2014 ND<1 190  
6/22/2015 ND<1 190  
12/8/2015 ND<1 190  
6/15/2016 ND<1 190  
12/6/2016 ND<1 190  
6/14/2017 ND<1 190  
12/11/2017 ND<1 190  
6/18/2018 ND<1 190

12/18/2018 ND<1 190  
6/12/2019 ND<1 190  
12/11/2019 ND<1 190  
6/24/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-5 12/8/2014 ND<1 190  
6/24/2015 ND<1 190  
12/7/2015 ND<1 190  
6/14/2016 ND<1 190  
12/8/2016 ND<1 190  
6/12/2017 ND<1 190  
12/12/2017 ND<1 190  
6/21/2018 ND<1 190  
12/18/2018 ND<1 190  
6/12/2019 ND<1 190  
12/10/2019 ND<1 190  
6/23/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-7 12/8/2014 ND<1 190  
6/24/2015 ND<1 190  
12/7/2015 ND<1 190  
6/15/2016 ND<1 190  
12/8/2016 ND<1 190  
6/12/2017 ND<1 190  
12/12/2017 ND<1 190  
6/19/2018 ND<1 190  
12/18/2018 ND<1 190  
6/12/2019 ND<1 190  
12/11/2019 ND<1 190  
6/24/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-10 12/9/2014 ND<1 190  
6/22/2015 ND<1 190  
12/7/2015 ND<1 190  
6/14/2016 ND<1 190  
12/8/2016 ND<1 190  
6/15/2017 ND<1 190  
12/12/2017 ND<1 190  
6/19/2018 ND<1 190  
12/17/2018 ND<1 190  
6/10/2019 ND<1 190  
12/12/2019 ND<1 190  
6/24/2020 ND<1 190

Rank Sum = 2280  
Rank Mean = 190

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GWC-10A 12/9/2014 ND<1 190  
6/22/2015 ND<1 190  
12/7/2015 ND<1 190  
6/14/2016 ND<1 190  
12/8/2016 ND<1 190



6/15/2017	ND<1	190
12/12/2017	ND<1	190
6/19/2018	ND<1	190
12/17/2018	ND<1	190
6/10/2019	ND<1	190
12/12/2019	ND<1	190
6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-11	12/9/2014	ND<1	190
	6/22/2015	ND<1	190
	12/7/2015	ND<1	190
	6/14/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/12/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-12	12/9/2014	ND<1	190
	6/22/2015	ND<1	190
	12/7/2015	ND<1	190
	6/14/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/11/2019	ND<1	190
	12/9/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-12A	12/9/2014	ND<1	190
	6/22/2015	ND<1	190
	12/7/2015	ND<1	190
	6/14/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/11/2019	ND<1	190
	12/9/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-6	12/9/2014	ND<1	190
	6/22/2015	ND<1	190

12/8/2015	ND<1	190
6/14/2016	ND<1	190
12/8/2016	ND<1	190
6/12/2017	ND<1	190
12/13/2017	ND<1	190
6/21/2018	ND<1	190
12/19/2018	ND<1	190
6/12/2019	ND<1	190
12/10/2019	ND<1	190
6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-16A	12/10/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	6.3	389
	6/16/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	3.3	383
	12/13/2017	ND<1	190
	6/21/2018	ND<1	190
	12/19/2018	ND<1	190
	6/13/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2672  
Rank Mean = 222.667

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GWC-14	12/10/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/15/2016	ND<1	190
	6/13/2017	ND<1	190
	6/20/2018	ND<1	190
	6/11/2019	ND<1	190
	12/10/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 1710  
Rank Mean = 190

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GWC-14A	12/10/2014	6.3	390
	6/23/2015	8.2	394
	12/9/2015	6.7	392
	6/15/2016	12	396
	12/8/2016	6.4	391
	6/13/2017	5.8	388
	12/12/2017	7.7	393
	6/20/2018	8.5	395
	12/19/2018	5.4	387
	6/11/2019	4.4	386
	12/10/2019	3.6	385
	6/24/2020	3.3	384

Rank Sum = 4681  
Rank Mean = 390.083

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GWC-14R	12/10/2014	ND<1	190
	6/23/2015	ND<1	190

12/10/2015	ND<1	190
6/15/2016	ND<1	190
12/8/2016	ND<1	190
6/13/2017	ND<1	190
12/12/2017	ND<1	190
6/20/2018	ND<1	190
12/19/2018	ND<1	190
6/12/2019	ND<1	190
12/10/2019	ND<1	190
6/23/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-15	12/10/2014	ND<1	190
	6/23/2015	ND<1	190
	12/9/2015	ND<1	190
	6/15/2016	ND<1	190
	12/8/2016	2.8	382
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/11/2019	ND<1	190
	12/10/2019	ND<1	190
	6/25/2020	ND<1	190

Rank Sum = 2472  
Rank Mean = 206

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GWC-17	12/10/2014	ND<1	190
	6/22/2015	ND<1	190
	12/8/2015	ND<1	190
	6/13/2016	ND<1	190
	6/14/2017	ND<1	190
	12/12/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/10/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2090  
Rank Mean = 190

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GWC-18	12/10/2014	ND<1	190
	6/22/2015	ND<1	190
	12/9/2015	ND<1	190
	6/13/2016	ND<1	190
	12/6/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/18/2018	ND<1	190
	6/11/2019	ND<1	190
	12/9/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

GWC-19R	12/10/2014	ND<1	190
	6/22/2015	ND<1	190
	12/9/2015	ND<1	190
	6/15/2016	ND<1	190
	12/6/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/18/2018	ND<1	190
	6/11/2019	ND<1	190
	12/9/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-24	12/10/2014	ND<1	190
	6/22/2015	ND<1	190
	12/8/2015	ND<1	190
	6/13/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	ND<1	190
	12/13/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/11/2019	ND<1	190
	12/9/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 2280  
Rank Mean = 190

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GWC-8	12/10/2014	ND<1	190
	6/23/2015	ND<1	190
	12/10/2015	ND<1	190
	6/15/2016	ND<1	190
	12/8/2016	ND<1	190
	12/12/2017	ND<1	190
	6/20/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2090  
Rank Mean = 190

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GWC-8A	12/10/2014	ND<1	190
	6/24/2015	ND<1	190
	12/10/2015	ND<1	190
	6/15/2016	ND<1	190
	12/8/2016	ND<1	190
	6/13/2017	ND<1	190
	12/12/2017	ND<1	190
	6/20/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-8R	12/10/2014	2.7	381
	6/23/2015	ND<1	190
	12/10/2015	ND<1	190
	6/15/2016	ND<1	190
	12/8/2016	2.2	380
	6/13/2017	ND<1	190
	12/12/2017	ND<1	190
	6/20/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2661

Rank Mean = 221.75

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GWC-13	12/11/2014	ND<1	190
	6/22/2015	ND<1	190
	12/7/2015	ND<1	190
	6/15/2016	ND<1	190
	12/7/2016	ND<1	190
	6/14/2017	ND<1	190
	12/12/2017	ND<1	190
	6/19/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-2	12/11/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/14/2016	ND<1	190
	12/8/2016	ND<1	190
	6/15/2017	ND<1	190
	12/13/2017	ND<1	190
	6/20/2018	ND<1	190
	12/19/2018	ND<1	190
	6/12/2019	ND<1	190
	12/10/2019	ND<1	190
	6/22/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-3A	12/11/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/14/2016	ND<1	190
	12/8/2016	ND<1	190
	6/15/2017	ND<1	190
	12/12/2017	ND<1	190
	6/20/2018	ND<1	190
	12/17/2018	ND<1	190
	6/11/2019	ND<1	190

12/10/2019	ND<1	190
6/24/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-4	12/11/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/16/2016	ND<1	190
	12/7/2016	ND<1	190
	6/20/2018	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 1330

Rank Mean = 190

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GWC-4A	12/11/2014	ND<1	190
	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/16/2016	ND<1	190
	12/7/2016	ND<1	190
	6/13/2017	ND<1	190
	12/12/2017	ND<1	190
	6/20/2018	ND<1	190
	12/17/2018	ND<1	190
	6/11/2019	ND<1	190
	12/11/2019	ND<1	190
	6/23/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-9	12/11/2014	ND<1	190
	6/22/2015	ND<1	190
	12/8/2015	ND<1	190
	6/14/2016	ND<1	190
	12/8/2016	ND<1	190
	6/15/2017	ND<1	190
	12/13/2017	ND<1	190
	6/20/2018	ND<1	190
	12/18/2018	ND<1	190
	6/12/2019	ND<1	190
	12/12/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 2280

Rank Mean = 190

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GWC-3	6/24/2015	ND<1	190
	12/9/2015	ND<1	190
	6/14/2016	ND<1	190
	12/8/2016	ND<1	190
	6/15/2017	ND<1	190
	6/21/2018	ND<1	190
	12/17/2018	ND<1	190
	6/11/2019	ND<1	190
	12/10/2019	ND<1	190
	6/24/2020	ND<1	190

Rank Sum = 1900

Rank Mean = 190

**Calculation Results:**

Kruskal-Wallis H Statistic = 36.6203  
 Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 296.909  
 95% Confidence comparison value is 46.1942 at 32 degrees of freedom  
 36.6203 < 46.1942 indicating no significant group difference at 5% significance level  
**296.909 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 190

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	190	0	94.1414
GWA-3	190	0	94.1414
GWC-22	190	0	94.1414
GWC-23	190	0	94.1414
GWC-23A	190	0	94.1414
GWC-5	190	0	94.1414
GWC-7	190	0	94.1414
GWC-10	190	0	94.1414
GWC-10A	190	0	94.1414
GWC-11	190	0	94.1414
GWC-12	190	0	94.1414
GWC-12A	190	0	94.1414
GWC-6	190	0	94.1414
GWC-16A	222.667	32.6667	94.1414
GWC-14	190	0	104.077
<b>GWC-14A</b>	<b>390.083</b>	<b>200.083</b>	<b>94.1414</b>
GWC-14R	190	0	94.1414
GWC-15	206	16	94.1414
GWC-17	190	0	96.9522
GWC-18	190	0	94.1414
GWC-19R	190	0	94.1414
GWC-24	190	0	94.1414
GWC-8	190	0	96.9522
GWC-8A	190	0	94.1414
GWC-8R	221.75	31.75	94.1414
GWC-13	190	0	94.1414
GWC-2	190	0	94.1414
GWC-3A	190	0	94.1414
GWC-4	190	0	114.38
GWC-4A	190	0	94.1414
GWC-9	190	0	94.1414
GWC-3	190	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 190

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	190	0	125.055
GWA-3	190	0	125.055
GWC-22	190	0	125.055
GWC-23	190	0	125.055
GWC-23A	190	0	125.055

GWC-5	190	0	125.055
GWC-7	190	0	125.055
GWC-10	190	0	125.055
GWC-10A	190	0	125.055
GWC-11	190	0	125.055
GWC-12	190	0	125.055
GWC-12A	190	0	125.055
GWC-6	190	0	125.055
GWC-16A	222.667	32.6667	125.055
GWC-14	190	0	138.253
<b>GWC-14A</b>	<b>390.083</b>	<b>200.083</b>	<b>125.055</b>
GWC-14R	190	0	125.055
GWC-15	206	16	125.055
GWC-17	190	0	128.789
GWC-18	190	0	125.055
GWC-19R	190	0	125.055
GWC-24	190	0	125.055
GWC-8	190	0	128.789
GWC-8A	190	0	125.055
GWC-8R	221.75	31.75	125.055
GWC-13	190	0	125.055
GWC-2	190	0	125.055
GWC-3A	190	0	125.055
GWC-4	190	0	151.94
GWC-4A	190	0	125.055
GWC-9	190	0	125.055
GWC-3	190	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	141
	6/23/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/13/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/10/2019	ND<1	141
	12/9/2019	ND<1	141
	6/23/2020	ND<1	141

Rank Sum = 1692

Rank Mean = 141

GWA-2	12/9/2014	ND<1	141
	6/24/2015	ND<1	141
	12/7/2015	ND<1	141
	6/13/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/11/2019	ND<1	141
	6/22/2020	ND<1	141

Rank Sum = 1692

Rank Mean = 141

Background Rank Sum = 3384

Background Rank Mean = 141

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	141
	6/23/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/12/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/10/2019	ND<1	141
	12/9/2019	ND<1	141

	6/23/2020	ND<1	141
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Rank Sum = 1692

Rank Mean = 141

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GWA-3	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/13/2016	ND<1	141
	12/8/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141
	6/22/2020	ND<1	141

Rank Sum = 1692

Rank Mean = 141

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GWC-22	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/9/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141
	6/23/2020	ND<1	141

Rank Sum = 1692

Rank Mean = 141

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GWC-23	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692

Rank Mean = 141

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GWC-23A	12/8/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/15/2016	ND<1	141
	12/6/2016	ND<1	141
	6/14/2017	ND<1	141
	12/11/2017	ND<1	141
	6/18/2018	ND<1	141

12/18/2018	ND<1	141
6/12/2019	ND<1	141
12/11/2019	ND<1	141
6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-5	12/8/2014	ND<1	141
	6/24/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/12/2017	ND<1	141
	12/12/2017	ND<1	141
	6/21/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/10/2019	ND<1	141
	6/23/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-7	12/8/2014	ND<1	141
	6/24/2015	ND<1	141
	12/7/2015	ND<1	141
	6/15/2016	ND<1	141
	12/8/2016	ND<1	141
	6/12/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-10	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/17/2018	ND<1	141
	6/10/2019	ND<1	141
	12/12/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-10A	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141

6/15/2017	ND<1	141
12/12/2017	ND<1	141
6/19/2018	ND<1	141
12/17/2018	ND<1	141
6/10/2019	ND<1	141
12/12/2019	ND<1	141
6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-11	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/12/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-12	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/11/2019	ND<1	141
	12/9/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-12A	12/9/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/14/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/11/2019	ND<1	141
	12/9/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-6	12/9/2014	ND<1	141
	6/22/2015	ND<1	141

12/8/2015	ND<1	141
6/14/2016	ND<1	141
12/8/2016	ND<1	141
6/12/2017	ND<1	141
12/13/2017	ND<1	141
6/21/2018	ND<1	141
12/19/2018	ND<1	141
6/12/2019	ND<1	141
12/10/2019	ND<1	141
6/24/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-16A	12/10/2014	4.9	306
	6/24/2015	4.4	301
	12/9/2015	82	393
	6/16/2016	3.4	296
	12/7/2016	3.5	297
	6/14/2017	39	381
	12/13/2017	2.9	291
	6/21/2018	ND<1	141
	12/19/2018	2.5	288
	6/13/2019	ND<1	141
	12/11/2019	2.1	283
	6/23/2020	2.2	284

Rank Sum = 3402  
Rank Mean = 283.5

GWC-14	12/10/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/15/2016	ND<1	141
	6/13/2017	ND<1	141
	6/20/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141
	6/24/2020	ND<1	141

Rank Sum = 1269  
Rank Mean = 141

GWC-14A	12/10/2014	30	370
	6/23/2015	32	373
	12/9/2015	38	380
	6/15/2016	42	383
	12/8/2016	33	376
	6/13/2017	64	390
	12/12/2017	62	388
	6/20/2018	71	392
	12/19/2018	53	387
	6/11/2019	46	385
	12/10/2019	65	391
	6/24/2020	62	389

Rank Sum = 4604  
Rank Mean = 383.667

GWC-14R	12/10/2014	27	366
	6/23/2015	22	354

12/10/2015	20	348
6/15/2016	25	362
12/8/2016	19	342
6/13/2017	26	364
12/12/2017	20	349
6/20/2018	24	358
12/19/2018	17	337
6/12/2019	21	350
12/10/2019	19	343
6/23/2020	26	365

Rank Sum = 4238  
Rank Mean = 353.167

GWC-15	12/10/2014	13	327
	6/23/2015	ND<1	141
	12/9/2015	17	338
	6/15/2016	ND<1	141
	12/8/2016	110	395
	6/14/2017	10	320
	12/13/2017	11	323
	6/19/2018	2	282
	12/19/2018	2.9	292
	6/11/2019	97	394
	12/10/2019	51	386
	6/25/2020	110	396

Rank Sum = 3735  
Rank Mean = 311.25

GWC-17	12/10/2014	24	359
	6/22/2015	10	321
	12/8/2015	45	384
	6/13/2016	41	382
	6/14/2017	8.4	317
	12/12/2017	17	339
	6/19/2018	4.7	303
	12/19/2018	8.7	318
	6/12/2019	ND<1	141
	12/10/2019	15	332
	6/23/2020	ND<1	141

Rank Sum = 3337  
Rank Mean = 303.364

GWC-18	12/10/2014	16	334
	6/22/2015	15	333
	12/9/2015	14	329
	6/13/2016	3.6	298
	12/6/2016	16	335
	6/14/2017	16	336
	12/13/2017	14	330
	6/19/2018	7.7	314
	12/18/2018	12	326
	6/11/2019	14	331
	12/9/2019	30	371
	6/23/2020	10	322

Rank Sum = 3959  
Rank Mean = 329.917

GWC-19R	12/10/2014	11	324
	6/22/2015	6.8	311
	12/9/2015	4.7	304
	6/15/2016	9.3	319
	12/6/2016	13	328
	6/14/2017	2.4	286
	12/13/2017	4.7	305
	6/19/2018	5.1	307
	12/18/2018	2.9	293
	6/11/2019	7.7	315
	12/9/2019	11	325
	6/23/2020	7.2	312

Rank Sum = 3729  
Rank Mean = 310.75

GWC-24	12/10/2014	7.9	316
	6/22/2015	ND<1	141
	12/8/2015	2.4	287
	6/13/2016	5.2	308
	12/7/2016	5.4	309
	6/14/2017	ND<1	141
	12/13/2017	ND<1	141
	6/19/2018	2.2	285
	12/19/2018	3.7	299
	6/11/2019	4.4	302
	12/9/2019	6.1	310
	6/24/2020	3	294

Rank Sum = 3133  
Rank Mean = 261.083

GWC-8	12/10/2014	ND<1	141
	6/23/2015	ND<1	141
	12/10/2015	ND<1	141
	6/15/2016	ND<1	141
	12/8/2016	3.1	295
	12/12/2017	7.6	313
	6/20/2018	2.6	289
	12/19/2018	4.3	300
	6/12/2019	ND<1	141
	12/11/2019	2.8	290
	6/23/2020	ND<1	141

Rank Sum = 2333  
Rank Mean = 212.091

GWC-8A	12/10/2014	33	377
	6/24/2015	19	344
	12/10/2015	29	369
	6/15/2016	25	363
	12/8/2016	32	374
	6/13/2017	27	367
	12/12/2017	37	379
	6/20/2018	32	375
	12/19/2018	31	372
	6/12/2019	22	355
	12/11/2019	33	378
	6/23/2020	23	356

Rank Sum = 4409

Rank Mean = 367.417

GWC-8R	12/10/2014	19	345
	6/23/2015	19	346
	12/10/2015	19	347
	6/15/2016	21	351
	12/8/2016	17	340
	6/13/2017	23	357
	12/12/2017	21	352
	6/20/2018	24	360
	12/19/2018	18	341
	6/12/2019	21	353
	12/11/2019	24	361
	6/23/2020	27	368

Rank Sum = 4221  
Rank Mean = 351.75

GWC-13	12/11/2014	ND<1	141
	6/22/2015	ND<1	141
	12/7/2015	ND<1	141
	6/15/2016	ND<1	141
	12/7/2016	ND<1	141
	6/14/2017	ND<1	141
	12/12/2017	ND<1	141
	6/19/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/11/2019	ND<1	141
	6/23/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-2	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/13/2017	ND<1	141
	6/20/2018	ND<1	141
	12/19/2018	ND<1	141
	6/12/2019	ND<1	141
	12/10/2019	ND<1	141
	6/22/2020	ND<1	141

Rank Sum = 1692  
Rank Mean = 141

GWC-3A	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/12/2017	ND<1	141
	6/20/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141



	12/10/2019	ND<1	141
	6/24/2020	ND<1	141
Rank Sum = 1692			
Rank Mean = 141			

GWC-4	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/16/2016	ND<1	141
	12/7/2016	ND<1	141
	6/20/2018	ND<1	141
	6/23/2020	ND<1	141
Rank Sum = 987			
Rank Mean = 141			

GWC-4A	12/11/2014	ND<1	141
	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/16/2016	ND<1	141
	12/7/2016	ND<1	141
	6/13/2017	ND<1	141
	12/12/2017	ND<1	141
	6/20/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/11/2019	ND<1	141
	6/23/2020	ND<1	141
Rank Sum = 1692			
Rank Mean = 141			

GWC-9	12/11/2014	ND<1	141
	6/22/2015	ND<1	141
	12/8/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	12/13/2017	ND<1	141
	6/20/2018	ND<1	141
	12/18/2018	ND<1	141
	6/12/2019	ND<1	141
	12/12/2019	ND<1	141
	6/24/2020	ND<1	141
Rank Sum = 1692			
Rank Mean = 141			

GWC-3	6/24/2015	ND<1	141
	12/9/2015	ND<1	141
	6/14/2016	ND<1	141
	12/8/2016	ND<1	141
	6/15/2017	ND<1	141
	6/21/2018	ND<1	141
	12/17/2018	ND<1	141
	6/11/2019	ND<1	141
	12/10/2019	ND<1	141
	6/24/2020	ND<1	141
Rank Sum = 1410			
Rank Mean = 141			

**Calculation Results:**

Kruskal-Wallis H Statistic = 226.691

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 352.715

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**226.691 > 46.1942 indicating a significant group difference at 5% significance level**

**352.715 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 141

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	141	0	94.1414
GWA-3	141	0	94.1414
GWC-22	141	0	94.1414
GWC-23	141	0	94.1414
GWC-23A	141	0	94.1414
GWC-5	141	0	94.1414
GWC-7	141	0	94.1414
GWC-10	141	0	94.1414
GWC-10A	141	0	94.1414
GWC-11	141	0	94.1414
GWC-12	141	0	94.1414
GWC-12A	141	0	94.1414
GWC-6	141	0	94.1414
<b>GWC-16A</b>	<b>283.5</b>	<b>142.5</b>	<b>94.1414</b>
GWC-14	141	0	104.077
<b>GWC-14A</b>	<b>383.667</b>	<b>242.667</b>	<b>94.1414</b>
<b>GWC-14R</b>	<b>353.167</b>	<b>212.167</b>	<b>94.1414</b>
<b>GWC-15</b>	<b>311.25</b>	<b>170.25</b>	<b>94.1414</b>
<b>GWC-17</b>	<b>303.364</b>	<b>162.364</b>	<b>96.9522</b>
<b>GWC-18</b>	<b>329.917</b>	<b>188.917</b>	<b>94.1414</b>
<b>GWC-19R</b>	<b>310.75</b>	<b>169.75</b>	<b>94.1414</b>
<b>GWC-24</b>	<b>261.083</b>	<b>120.083</b>	<b>94.1414</b>
GWC-8	212.091	71.0909	96.9522
<b>GWC-8A</b>	<b>367.417</b>	<b>226.417</b>	<b>94.1414</b>
<b>GWC-8R</b>	<b>351.75</b>	<b>210.75</b>	<b>94.1414</b>
GWC-13	141	0	94.1414
GWC-2	141	0	94.1414
GWC-3A	141	0	94.1414
GWC-4	141	0	114.38
GWC-4A	141	0	94.1414
GWC-9	141	0	94.1414
GWC-3	141	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 141

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	141	0	125.055
GWA-3	141	0	125.055
GWC-22	141	0	125.055
GWC-23	141	0	125.055
GWC-23A	141	0	125.055

GWC-5	141	0	125.055
GWC-7	141	0	125.055
GWC-10	141	0	125.055
GWC-10A	141	0	125.055
GWC-11	141	0	125.055
GWC-12	141	0	125.055
GWC-12A	141	0	125.055
GWC-6	141	0	125.055
<b>GWC-16A</b>	<b>283.5</b>	<b>142.5</b>	<b>125.055</b>
GWC-14	141	0	138.253
<b>GWC-14A</b>	<b>383.667</b>	<b>242.667</b>	<b>125.055</b>
<b>GWC-14R</b>	<b>353.167</b>	<b>212.167</b>	<b>125.055</b>
<b>GWC-15</b>	<b>311.25</b>	<b>170.25</b>	<b>125.055</b>
<b>GWC-17</b>	<b>303.364</b>	<b>162.364</b>	<b>128.789</b>
<b>GWC-18</b>	<b>329.917</b>	<b>188.917</b>	<b>125.055</b>
<b>GWC-19R</b>	<b>310.75</b>	<b>169.75</b>	<b>125.055</b>
GWC-24	261.083	120.083	125.055
GWC-8	212.091	71.0909	128.789
<b>GWC-8A</b>	<b>367.417</b>	<b>226.417</b>	<b>125.055</b>
<b>GWC-8R</b>	<b>351.75</b>	<b>210.75</b>	<b>125.055</b>
GWC-13	141	0	125.055
GWC-2	141	0	125.055
GWC-3A	141	0	125.055
GWC-4	141	0	151.94
GWC-4A	141	0	125.055
GWC-9	141	0	125.055
GWC-3	141	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	180.5
	6/23/2015	ND<1	180.5
	12/8/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	12/11/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/17/2018	ND<1	180.5
	6/10/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2166

Rank Mean = 180.5

GWA-2	12/9/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/7/2015	ND<1	180.5
	6/13/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/15/2017	ND<1	180.5
	12/11/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/17/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/22/2020	ND<1	180.5

Rank Sum = 2166

Rank Mean = 180.5

Background Rank Sum = 4332

Background Rank Mean = 180.5

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	180.5
	6/23/2015	ND<1	180.5
	12/8/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/12/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/18/2018	ND<1	180.5
	6/10/2019	ND<1	180.5
	12/9/2019	ND<1	180.5

6/23/2020 ND<1 180.5  
Rank Sum = 2166  
Rank Mean = 180.5

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GWA-3 12/8/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/7/2015 ND<1 180.5  
6/13/2016 ND<1 180.5  
12/8/2016 ND<1 180.5  
6/14/2017 ND<1 180.5  
12/11/2017 ND<1 180.5  
6/18/2018 ND<1 180.5  
12/17/2018 ND<1 180.5  
6/11/2019 ND<1 180.5  
12/10/2019 ND<1 180.5  
6/22/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-22 12/8/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/9/2015 ND<1 180.5  
6/15/2016 ND<1 180.5  
12/6/2016 ND<1 180.5  
6/14/2017 ND<1 180.5  
12/11/2017 ND<1 180.5  
6/19/2018 ND<1 180.5  
12/18/2018 ND<1 180.5  
6/12/2019 ND<1 180.5  
12/11/2019 ND<1 180.5  
6/23/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-23 12/8/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/8/2015 ND<1 180.5  
6/15/2016 ND<1 180.5  
12/6/2016 ND<1 180.5  
6/14/2017 ND<1 180.5  
12/11/2017 ND<1 180.5  
6/18/2018 ND<1 180.5  
12/18/2018 ND<1 180.5  
6/12/2019 ND<1 180.5  
12/11/2019 ND<1 180.5  
6/24/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-23A 12/8/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/8/2015 ND<1 180.5  
6/15/2016 ND<1 180.5  
12/6/2016 ND<1 180.5  
6/14/2017 ND<1 180.5  
12/11/2017 ND<1 180.5  
6/18/2018 ND<1 180.5

12/18/2018 ND<1 180.5  
6/12/2019 ND<1 180.5  
12/11/2019 ND<1 180.5  
6/24/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-5 12/8/2014 ND<1 180.5  
6/24/2015 ND<1 180.5  
12/7/2015 ND<1 180.5  
6/14/2016 ND<1 180.5  
12/8/2016 ND<1 180.5  
6/12/2017 ND<1 180.5  
12/12/2017 ND<1 180.5  
6/21/2018 ND<1 180.5  
12/18/2018 ND<1 180.5  
6/12/2019 ND<1 180.5  
12/10/2019 ND<1 180.5  
6/23/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-7 12/8/2014 ND<1 180.5  
6/24/2015 ND<1 180.5  
12/7/2015 ND<1 180.5  
6/15/2016 ND<1 180.5  
12/8/2016 ND<1 180.5  
6/12/2017 ND<1 180.5  
12/12/2017 ND<1 180.5  
6/19/2018 ND<1 180.5  
12/18/2018 ND<1 180.5  
6/12/2019 ND<1 180.5  
12/11/2019 ND<1 180.5  
6/24/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-10 12/9/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/7/2015 ND<1 180.5  
6/14/2016 ND<1 180.5  
12/8/2016 ND<1 180.5  
6/15/2017 ND<1 180.5  
12/12/2017 ND<1 180.5  
6/19/2018 ND<1 180.5  
12/17/2018 ND<1 180.5  
6/10/2019 ND<1 180.5  
12/12/2019 ND<1 180.5  
6/24/2020 ND<1 180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-10A 12/9/2014 ND<1 180.5  
6/22/2015 ND<1 180.5  
12/7/2015 ND<1 180.5  
6/14/2016 ND<1 180.5  
12/8/2016 ND<1 180.5

6/15/2017	ND<1	180.5
12/12/2017	ND<1	180.5
6/19/2018	ND<1	180.5
12/17/2018	ND<1	180.5
6/10/2019	ND<1	180.5
12/12/2019	ND<1	180.5
6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-11	12/9/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/7/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/12/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-12	12/9/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/7/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-12A	12/9/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/7/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-6	12/9/2014	ND<1	180.5
	6/22/2015	ND<1	180.5

12/8/2015	ND<1	180.5
6/14/2016	ND<1	180.5
12/8/2016	ND<1	180.5
6/12/2017	ND<1	180.5
12/13/2017	ND<1	180.5
6/21/2018	ND<1	180.5
12/19/2018	ND<1	180.5
6/12/2019	ND<1	180.5
12/10/2019	ND<1	180.5
6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-16A	12/10/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	3.7	371
	6/16/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	6.3	380
	12/13/2017	ND<1	180.5
	6/21/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/13/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2556  
Rank Mean = 213

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GWC-14	12/10/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/10/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 1624.5  
Rank Mean = 180.5

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GWC-14A	12/10/2014	ND<1	180.5
	6/23/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/10/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-14R	12/10/2014	4.4	375
	6/23/2015	3.5	370

12/10/2015	2.8	368
6/15/2016	2.2	365
12/8/2016	2.5	366
6/13/2017	3.2	369
12/12/2017	2	361
6/20/2018	2	362
12/19/2018	ND<1	180.5
6/12/2019	ND<1	180.5
12/10/2019	ND<1	180.5
6/23/2020	ND<1	180.5

Rank Sum = 3658  
Rank Mean = 304.833

GWC-15	12/10/2014	8.5	386
	6/23/2015	11	391
	12/9/2015	6.1	379
	6/15/2016	9	387
	12/8/2016	16	393
	6/14/2017	7.3	384
	12/13/2017	2.7	367
	6/19/2018	5	377
	12/19/2018	9.7	389
	6/11/2019	50	396
	12/10/2019	31	394
	6/25/2020	48	395

Rank Sum = 4638  
Rank Mean = 386.5

GWC-17	12/10/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/8/2015	ND<1	180.5
	6/13/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/10/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 1985.5  
Rank Mean = 180.5

GWC-18	12/10/2014	14	392
	6/22/2015	10	390
	12/9/2015	9	388
	6/13/2016	4	373
	12/6/2016	6.6	382
	6/14/2017	4.1	374
	12/13/2017	6.5	381
	6/19/2018	4.6	376
	12/18/2018	7	383
	6/11/2019	3.9	372
	12/9/2019	7.4	385
	6/23/2020	5.7	378

Rank Sum = 4574  
Rank Mean = 381.167

GWC-19R	12/10/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/6/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/18/2018	2	363
	6/11/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2348.5  
Rank Mean = 195.708

GWC-24	12/10/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/8/2015	ND<1	180.5
	6/13/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

GWC-8	12/10/2014	ND<1	180.5
	6/23/2015	ND<1	180.5
	12/10/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 1985.5  
Rank Mean = 180.5

GWC-8A	12/10/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/10/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2166

Rank Mean = 180.5

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GWC-8R	12/10/2014	ND<1	180.5
	6/23/2015	ND<1	180.5
	12/10/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	2	364
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2349.5  
Rank Mean = 195.792

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GWC-13	12/11/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/7/2015	ND<1	180.5
	6/15/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-2	12/11/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/15/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/19/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/10/2019	ND<1	180.5
	6/22/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-3A	12/11/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/15/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/17/2018	ND<1	180.5
	6/11/2019	ND<1	180.5

12/10/2019	ND<1	180.5
6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-4	12/11/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/16/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/20/2018	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 1263.5  
Rank Mean = 180.5

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GWC-4A	12/11/2014	ND<1	180.5
	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/16/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/13/2017	ND<1	180.5
	12/12/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/17/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/11/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-9	12/11/2014	ND<1	180.5
	6/22/2015	ND<1	180.5
	12/8/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/15/2017	ND<1	180.5
	12/13/2017	ND<1	180.5
	6/20/2018	ND<1	180.5
	12/18/2018	ND<1	180.5
	6/12/2019	ND<1	180.5
	12/12/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 2166  
Rank Mean = 180.5

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GWC-3	6/24/2015	ND<1	180.5
	12/9/2015	ND<1	180.5
	6/14/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/15/2017	ND<1	180.5
	6/21/2018	ND<1	180.5
	12/17/2018	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/10/2019	ND<1	180.5
	6/24/2020	ND<1	180.5

Rank Sum = 1805  
Rank Mean = 180.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 81.5125

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 327.772

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**81.5125 > 46.1942 indicating a significant group difference at 5% significance level**

**327.772 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 180.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	180.5	0	94.1414
GWA-3	180.5	0	94.1414
GWC-22	180.5	0	94.1414
GWC-23	180.5	0	94.1414
GWC-23A	180.5	0	94.1414
GWC-5	180.5	0	94.1414
GWC-7	180.5	0	94.1414
GWC-10	180.5	0	94.1414
GWC-10A	180.5	0	94.1414
GWC-11	180.5	0	94.1414
GWC-12	180.5	0	94.1414
GWC-12A	180.5	0	94.1414
GWC-6	180.5	0	94.1414
GWC-16A	213	32.5	94.1414
GWC-14	180.5	0	104.077
GWC-14A	180.5	0	94.1414
<b>GWC-14R</b>	<b>304.833</b>	<b>124.333</b>	<b>94.1414</b>
<b>GWC-15</b>	<b>386.5</b>	<b>206</b>	<b>94.1414</b>
GWC-17	180.5	0	96.9522
<b>GWC-18</b>	<b>381.167</b>	<b>200.667</b>	<b>94.1414</b>
GWC-19R	195.708	15.2083	94.1414
GWC-24	180.5	0	94.1414
GWC-8	180.5	0	96.9522
GWC-8A	180.5	0	94.1414
GWC-8R	195.792	15.2917	94.1414
GWC-13	180.5	0	94.1414
GWC-2	180.5	0	94.1414
GWC-3A	180.5	0	94.1414
GWC-4	180.5	0	114.38
GWC-4A	180.5	0	94.1414
GWC-9	180.5	0	94.1414
GWC-3	180.5	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 180.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	180.5	0	125.055
GWA-3	180.5	0	125.055
GWC-22	180.5	0	125.055
GWC-23	180.5	0	125.055
GWC-23A	180.5	0	125.055

GWC-5	180.5	0	125.055
GWC-7	180.5	0	125.055
GWC-10	180.5	0	125.055
GWC-10A	180.5	0	125.055
GWC-11	180.5	0	125.055
GWC-12	180.5	0	125.055
GWC-12A	180.5	0	125.055
GWC-6	180.5	0	125.055
GWC-16A	213	32.5	125.055
GWC-14	180.5	0	138.253
GWC-14A	180.5	0	125.055
GWC-14R	304.833	124.333	125.055
<b>GWC-15</b>	<b>386.5</b>	<b>206</b>	<b>125.055</b>
GWC-17	180.5	0	128.789
<b>GWC-18</b>	<b>381.167</b>	<b>200.667</b>	<b>125.055</b>
GWC-19R	195.708	15.2083	125.055
GWC-24	180.5	0	125.055
GWC-8	180.5	0	128.789
GWC-8A	180.5	0	125.055
GWC-8R	195.792	15.2917	125.055
GWC-13	180.5	0	125.055
GWC-2	180.5	0	125.055
GWC-3A	180.5	0	125.055
GWC-4	180.5	0	151.94
GWC-4A	180.5	0	125.055
GWC-9	180.5	0	125.055
GWC-3	180.5	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-2	12/9/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/22/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

Background Rank Sum = 4740

Background Rank Mean = 197.5

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/9/2019	ND<1	197.5

6/23/2020 ND<1 197.5

Rank Sum = 2370

Rank Mean = 197.5

GWA-3	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/22/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-22	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-23	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-23A	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5



12/18/2018	ND<1	197.5
6/12/2019	ND<1	197.5
12/11/2019	ND<1	197.5
6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-5	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-7	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-10	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
	12/12/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-10A	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5

6/15/2017	ND<1	197.5
12/12/2017	ND<1	197.5
6/19/2018	ND<1	197.5
12/17/2018	ND<1	197.5
6/10/2019	ND<1	197.5
12/12/2019	ND<1	197.5
6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-11	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/12/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-12	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-12A	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-6	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5

	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-16A	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	4.3	396
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	3.2	395
	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/13/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2766  
Rank Mean = 230.5

GWC-14	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 1777.5  
Rank Mean = 197.5

GWC-14A	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-14R	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5

	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-15	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/25/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-17	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2172.5  
Rank Mean = 197.5

GWC-18	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-19R	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-24	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/9/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-8	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2172.5  
Rank Mean = 197.5

GWC-8A	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370

Rank Mean = 197.5

GWC-8R	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-13	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-2	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/22/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-3A	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

	12/10/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-4	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/20/2018	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 1382.5  
Rank Mean = 197.5

GWC-4A	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/11/2019	ND<1	197.5
	6/23/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-9	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
	12/12/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 2370  
Rank Mean = 197.5

GWC-3	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5
	12/10/2019	ND<1	197.5
	6/24/2020	ND<1	197.5

Rank Sum = 1975  
Rank Mean = 197.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 0.967254

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.162

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

0.967254 < 46.1942 indicating no significant group difference at 5% significance level

**64.162 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	197.5	0	94.1414
GWA-3	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-5	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-16A	230.5	33	94.1414
GWC-14	197.5	0	104.077
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-24	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-2	197.5	0	94.1414
GWC-3A	197.5	0	94.1414
GWC-4	197.5	0	114.38
GWC-4A	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWC-3	197.5	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	197.5	0	125.055
GWA-3	197.5	0	125.055
GWC-22	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-23A	197.5	0	125.055

GWC-5	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-16A	230.5	33	125.055
GWC-14	197.5	0	138.253
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-24	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-13	197.5	0	125.055
GWC-2	197.5	0	125.055
GWC-3A	197.5	0	125.055
GWC-4	197.5	0	151.94
GWC-4A	197.5	0	125.055
GWC-9	197.5	0	125.055
GWC-3	197.5	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	175.5
	6/23/2015	ND<1	175.5
	12/8/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/13/2017	ND<1	175.5
	12/11/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/17/2018	ND<1	175.5
	6/10/2019	ND<1	175.5
	12/9/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

GWA-2	12/9/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/7/2015	ND<1	175.5
	6/13/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/15/2017	ND<1	175.5
	12/11/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/17/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/22/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

Background Rank Sum = 4212

Background Rank Mean = 175.5

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	175.5
	6/23/2015	ND<1	175.5
	12/8/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/12/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/18/2018	ND<1	175.5
	6/10/2019	ND<1	175.5
	12/9/2019	ND<1	175.5

6/23/2020 ND<1 175.5  
Rank Sum = 2106  
Rank Mean = 175.5

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GWA-3 12/8/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/7/2015 ND<1 175.5  
6/13/2016 ND<1 175.5  
12/8/2016 ND<1 175.5  
6/14/2017 ND<1 175.5  
12/11/2017 ND<1 175.5  
6/18/2018 ND<1 175.5  
12/17/2018 ND<1 175.5  
6/11/2019 ND<1 175.5  
12/10/2019 ND<1 175.5  
6/22/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-22 12/8/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/9/2015 ND<1 175.5  
6/15/2016 ND<1 175.5  
12/6/2016 ND<1 175.5  
6/14/2017 ND<1 175.5  
12/11/2017 ND<1 175.5  
6/19/2018 ND<1 175.5  
12/18/2018 ND<1 175.5  
6/12/2019 ND<1 175.5  
12/11/2019 ND<1 175.5  
6/23/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-23 12/8/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/8/2015 ND<1 175.5  
6/15/2016 ND<1 175.5  
12/6/2016 ND<1 175.5  
6/14/2017 ND<1 175.5  
12/11/2017 ND<1 175.5  
6/18/2018 ND<1 175.5  
12/18/2018 ND<1 175.5  
6/12/2019 ND<1 175.5  
12/11/2019 ND<1 175.5  
6/24/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-23A 12/8/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/8/2015 ND<1 175.5  
6/15/2016 ND<1 175.5  
12/6/2016 ND<1 175.5  
6/14/2017 ND<1 175.5  
12/11/2017 ND<1 175.5  
6/18/2018 ND<1 175.5

12/18/2018 ND<1 175.5  
6/12/2019 ND<1 175.5  
12/11/2019 ND<1 175.5  
6/24/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-5 12/8/2014 ND<1 175.5  
6/24/2015 ND<1 175.5  
12/7/2015 ND<1 175.5  
6/14/2016 ND<1 175.5  
12/8/2016 ND<1 175.5  
6/12/2017 ND<1 175.5  
12/12/2017 ND<1 175.5  
6/21/2018 ND<1 175.5  
12/18/2018 ND<1 175.5  
6/12/2019 ND<1 175.5  
12/10/2019 ND<1 175.5  
6/23/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-7 12/8/2014 ND<1 175.5  
6/24/2015 ND<1 175.5  
12/7/2015 ND<1 175.5  
6/15/2016 ND<1 175.5  
12/8/2016 ND<1 175.5  
6/12/2017 ND<1 175.5  
12/12/2017 ND<1 175.5  
6/19/2018 ND<1 175.5  
12/18/2018 ND<1 175.5  
6/12/2019 ND<1 175.5  
12/11/2019 ND<1 175.5  
6/24/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-10 12/9/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/7/2015 ND<1 175.5  
6/14/2016 ND<1 175.5  
12/8/2016 ND<1 175.5  
6/15/2017 ND<1 175.5  
12/12/2017 ND<1 175.5  
6/19/2018 ND<1 175.5  
12/17/2018 ND<1 175.5  
6/10/2019 ND<1 175.5  
12/12/2019 ND<1 175.5  
6/24/2020 ND<1 175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-10A 12/9/2014 ND<1 175.5  
6/22/2015 ND<1 175.5  
12/7/2015 ND<1 175.5  
6/14/2016 ND<1 175.5  
12/8/2016 ND<1 175.5

6/15/2017	ND<1	175.5
12/12/2017	ND<1	175.5
6/19/2018	ND<1	175.5
12/17/2018	ND<1	175.5
6/10/2019	ND<1	175.5
12/12/2019	ND<1	175.5
6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-11	12/9/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/7/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/12/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-12	12/9/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/7/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/9/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-12A	12/9/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/7/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/9/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-6	12/9/2014	ND<1	175.5
	6/22/2015	ND<1	175.5

12/8/2015	ND<1	175.5
6/14/2016	ND<1	175.5
12/8/2016	ND<1	175.5
6/12/2017	ND<1	175.5
12/13/2017	ND<1	175.5
6/21/2018	ND<1	175.5
12/19/2018	ND<1	175.5
6/12/2019	ND<1	175.5
12/10/2019	ND<1	175.5
6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

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GWC-16A	12/10/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	7	389
	6/16/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	3.9	371
	12/13/2017	ND<1	175.5
	6/21/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/13/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2515  
Rank Mean = 209.583

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GWC-14	12/10/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/15/2016	ND<1	175.5
	6/13/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/10/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 1579.5  
Rank Mean = 175.5

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GWC-14A	12/10/2014	8	390
	6/23/2015	5	380
	12/9/2015	5.3	382
	6/15/2016	4.3	372
	12/8/2016	6.8	387
	6/13/2017	3.5	366
	12/12/2017	3.8	369
	6/20/2018	2.1	352
	12/19/2018	2.2	356
	6/11/2019	ND<1	175.5
	12/10/2019	3.1	365
	6/24/2020	ND<1	175.5

Rank Sum = 4070  
Rank Mean = 339.167

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GWC-14R	12/10/2014	8.6	392
	6/23/2015	8.2	391

12/10/2015	6.7	386
6/15/2016	6.1	385
12/8/2016	5.4	384
6/13/2017	6.8	388
12/12/2017	4.8	377
6/20/2018	5.2	381
12/19/2018	4.9	378
6/12/2019	4.7	376
12/10/2019	4.3	373
6/23/2020	4.3	374

Rank Sum = 4585  
Rank Mean = 382.083

GWC-15	12/10/2014	4.9	379
	6/23/2015	ND<1	175.5
	12/9/2015	2.4	360
	6/15/2016	ND<1	175.5
	12/8/2016	73	395
	6/14/2017	2.1	353
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	3.7	368
	6/11/2019	70	394
	12/10/2019	55	393
	6/25/2020	90	396

Rank Sum = 3740  
Rank Mean = 311.667

GWC-17	12/10/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/8/2015	ND<1	175.5
	6/13/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/10/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 1930.5  
Rank Mean = 175.5

GWC-18	12/10/2014	4.5	375
	6/22/2015	3.5	367
	12/9/2015	2.7	362
	6/13/2016	ND<1	175.5
	12/6/2016	2.3	358
	6/14/2017	ND<1	175.5
	12/13/2017	2.3	359
	6/19/2018	ND<1	175.5
	12/18/2018	2.1	354
	6/11/2019	ND<1	175.5
	12/9/2019	2.6	361
	6/23/2020	ND<1	175.5

Rank Sum = 3413.5  
Rank Mean = 284.458

GWC-19R	12/10/2014	2.1	355
	6/22/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/15/2016	ND<1	175.5
	12/6/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/18/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/9/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2285.5  
Rank Mean = 190.458

GWC-24	12/10/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/8/2015	ND<1	175.5
	6/13/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/9/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106  
Rank Mean = 175.5

GWC-8	12/10/2014	ND<1	175.5
	6/23/2015	ND<1	175.5
	12/10/2015	ND<1	175.5
	6/15/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 1930.5  
Rank Mean = 175.5

GWC-8A	12/10/2014	2	351
	6/24/2015	ND<1	175.5
	12/10/2015	ND<1	175.5
	6/15/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/13/2017	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2281.5



Rank Mean = 190.125

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GWC-8R	12/10/2014	3.8	370
	6/23/2015	2.2	357
	12/10/2015	2.9	363
	6/15/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/13/2017	2.9	364
	12/12/2017	ND<1	175.5
	6/20/2018	5.3	383
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 3065.5

Rank Mean = 255.458

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GWC-13	12/11/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/7/2015	ND<1	175.5
	6/15/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/14/2017	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/19/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

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GWC-2	12/11/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/15/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/19/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/10/2019	ND<1	175.5
	6/22/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

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GWC-3A	12/11/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/15/2017	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/17/2018	ND<1	175.5
	6/11/2019	ND<1	175.5

	12/10/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

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GWC-4	12/11/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/16/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/20/2018	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 1228.5

Rank Mean = 175.5

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GWC-4A	12/11/2014	ND<1	175.5
	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/16/2016	ND<1	175.5
	12/7/2016	ND<1	175.5
	6/13/2017	ND<1	175.5
	12/12/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/17/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/11/2019	ND<1	175.5
	6/23/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

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GWC-9	12/11/2014	ND<1	175.5
	6/22/2015	ND<1	175.5
	12/8/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/15/2017	ND<1	175.5
	12/13/2017	ND<1	175.5
	6/20/2018	ND<1	175.5
	12/18/2018	ND<1	175.5
	6/12/2019	ND<1	175.5
	12/12/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 2106

Rank Mean = 175.5

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GWC-3	6/24/2015	ND<1	175.5
	12/9/2015	ND<1	175.5
	6/14/2016	ND<1	175.5
	12/8/2016	ND<1	175.5
	6/15/2017	ND<1	175.5
	6/21/2018	ND<1	175.5
	12/17/2018	ND<1	175.5
	6/11/2019	ND<1	175.5
	12/10/2019	ND<1	175.5
	6/24/2020	ND<1	175.5

Rank Sum = 1755

Rank Mean = 175.5

**Calculation Results:**

Kruskal-Wallis H Statistic = 82.8142

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 267.511

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

**82.8142 > 46.1942 indicating a significant group difference at 5% significance level**

**267.511 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 175.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	175.5	0	94.1414
GWA-3	175.5	0	94.1414
GWC-22	175.5	0	94.1414
GWC-23	175.5	0	94.1414
GWC-23A	175.5	0	94.1414
GWC-5	175.5	0	94.1414
GWC-7	175.5	0	94.1414
GWC-10	175.5	0	94.1414
GWC-10A	175.5	0	94.1414
GWC-11	175.5	0	94.1414
GWC-12	175.5	0	94.1414
GWC-12A	175.5	0	94.1414
GWC-6	175.5	0	94.1414
GWC-16A	209.583	34.0833	94.1414
GWC-14	175.5	0	104.077
<b>GWC-14A</b>	<b>339.167</b>	<b>163.667</b>	<b>94.1414</b>
<b>GWC-14R</b>	<b>382.083</b>	<b>206.583</b>	<b>94.1414</b>
<b>GWC-15</b>	<b>311.667</b>	<b>136.167</b>	<b>94.1414</b>
GWC-17	175.5	0	96.9522
<b>GWC-18</b>	<b>284.458</b>	<b>108.958</b>	<b>94.1414</b>
GWC-19R	190.458	14.9583	94.1414
GWC-24	175.5	0	94.1414
GWC-8	175.5	0	96.9522
GWC-8A	190.125	14.625	94.1414
GWC-8R	255.458	79.9583	94.1414
GWC-13	175.5	0	94.1414
GWC-2	175.5	0	94.1414
GWC-3A	175.5	0	94.1414
GWC-4	175.5	0	114.38
GWC-4A	175.5	0	94.1414
GWC-9	175.5	0	94.1414
GWC-3	175.5	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 175.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	175.5	0	125.055
GWA-3	175.5	0	125.055
GWC-22	175.5	0	125.055
GWC-23	175.5	0	125.055
GWC-23A	175.5	0	125.055

GWC-5	175.5	0	125.055
GWC-7	175.5	0	125.055
GWC-10	175.5	0	125.055
GWC-10A	175.5	0	125.055
GWC-11	175.5	0	125.055
GWC-12	175.5	0	125.055
GWC-12A	175.5	0	125.055
GWC-6	175.5	0	125.055
GWC-16A	209.583	34.0833	125.055
GWC-14	175.5	0	138.253
<b>GWC-14A</b>	<b>339.167</b>	<b>163.667</b>	<b>125.055</b>
<b>GWC-14R</b>	<b>382.083</b>	<b>206.583</b>	<b>125.055</b>
<b>GWC-15</b>	<b>311.667</b>	<b>136.167</b>	<b>125.055</b>
GWC-17	175.5	0	128.789
GWC-18	284.458	108.958	125.055
GWC-19R	190.458	14.9583	125.055
GWC-24	175.5	0	125.055
GWC-8	175.5	0	128.789
GWC-8A	190.125	14.625	125.055
GWC-8R	255.458	79.9583	125.055
GWC-13	175.5	0	125.055
GWC-2	175.5	0	125.055
GWC-3A	175.5	0	125.055
GWC-4	175.5	0	151.94
GWC-4A	175.5	0	125.055
GWC-9	175.5	0	125.055
GWC-3	175.5	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Vinyl chloride  
Original Data (Not Transformed)  
Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/8/2014	ND<1	191
	6/23/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/13/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/10/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWA-2	12/9/2014	ND<1	191
	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/13/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/11/2019	ND<1	191
	6/22/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

Background Rank Sum = 4584  
Background Rank Mean = 191

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<1	191
	6/23/2015	ND<1	191
	12/8/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/12/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/10/2019	ND<1	191
	12/9/2019	ND<1	191

6/23/2020 ND<1 191

Rank Sum = 2292

Rank Mean = 191

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GWA-3	12/8/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/13/2016	ND<1	191
	12/8/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/22/2020	ND<1	191

Rank Sum = 2292

Rank Mean = 191

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GWC-22	12/8/2014	ND<1	191
	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292

Rank Mean = 191

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GWC-23	12/8/2014	ND<1	191
	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292

Rank Mean = 191

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GWC-23A	12/8/2014	ND<1	191
	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/11/2017	ND<1	191
	6/18/2018	ND<1	191

12/18/2018	ND<1	191
6/12/2019	ND<1	191
12/11/2019	ND<1	191
6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-5	12/8/2014	ND<1	191
	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/12/2017	ND<1	191
	12/12/2017	ND<1	191
	6/21/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-7	12/8/2014	ND<1	191
	6/24/2015	ND<1	191
	12/7/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/12/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-10	12/9/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/17/2018	ND<1	191
	6/10/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-10A	12/9/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191

6/15/2017	ND<1	191
12/12/2017	ND<1	191
6/19/2018	ND<1	191
12/17/2018	ND<1	191
6/10/2019	ND<1	191
12/12/2019	ND<1	191
6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-11	12/9/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/12/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-12	12/9/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-12A	12/9/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/14/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-6	12/9/2014	ND<1	191
	6/22/2015	ND<1	191

12/8/2015	ND<1	191
6/14/2016	ND<1	191
12/8/2016	ND<1	191
6/12/2017	ND<1	191
12/13/2017	ND<1	191
6/21/2018	ND<1	191
12/19/2018	ND<1	191
6/12/2019	ND<1	191
12/10/2019	ND<1	191
6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-16A	12/10/2014	ND<1	191
	6/24/2015	ND<1	191
	12/9/2015	6	390
	6/16/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	4.8	386
	12/13/2017	ND<1	191
	6/21/2018	ND<1	191
	12/19/2018	ND<1	191
	6/13/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2686  
Rank Mean = 223.833

GWC-14	12/10/2014	ND<1	191
	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	6/13/2017	ND<1	191
	6/20/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 1719  
Rank Mean = 191

GWC-14A	12/10/2014	5.4	388
	6/23/2015	6.3	394
	12/9/2015	6.1	392
	6/15/2016	8.4	396
	12/8/2016	5.7	389
	6/13/2017	3.5	383
	12/12/2017	6	391
	6/20/2018	6.2	393
	12/19/2018	4.9	387
	6/11/2019	4.3	385
	12/10/2019	4	384
	6/24/2020	7.5	395

Rank Sum = 4677  
Rank Mean = 389.75

GWC-14R	12/10/2014	ND<1	191
	6/23/2015	ND<1	191

12/10/2015	ND<1	191
6/15/2016	ND<1	191
12/8/2016	ND<1	191
6/13/2017	ND<1	191
12/12/2017	ND<1	191
6/20/2018	ND<1	191
12/19/2018	ND<1	191
6/12/2019	ND<1	191
12/10/2019	ND<1	191
6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-15	12/10/2014	ND<1	191
	6/23/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	2.3	382
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/10/2019	ND<1	191
	6/25/2020	ND<1	191

Rank Sum = 2483  
Rank Mean = 206.917

GWC-17	12/10/2014	ND<1	191
	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/13/2016	ND<1	191
	6/14/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2101  
Rank Mean = 191

GWC-18	12/10/2014	ND<1	191
	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/13/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-19R	12/10/2014	ND<1	191
	6/22/2015	ND<1	191
	12/9/2015	ND<1	191
	6/15/2016	ND<1	191
	12/6/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/18/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-24	12/10/2014	ND<1	191
	6/22/2015	ND<1	191
	12/8/2015	ND<1	191
	6/13/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/13/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/11/2019	ND<1	191
	12/9/2019	ND<1	191
	6/24/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-8	12/10/2014	ND<1	191
	6/23/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2101  
Rank Mean = 191

GWC-8A	12/10/2014	ND<1	191
	6/24/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292

Rank Mean = 191

GWC-8R	12/10/2014	ND<1	191
	6/23/2015	ND<1	191
	12/10/2015	ND<1	191
	6/15/2016	ND<1	191
	12/8/2016	ND<1	191
	6/13/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-13	12/11/2014	ND<1	191
	6/22/2015	ND<1	191
	12/7/2015	ND<1	191
	6/15/2016	ND<1	191
	12/7/2016	ND<1	191
	6/14/2017	ND<1	191
	12/12/2017	ND<1	191
	6/19/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/11/2019	ND<1	191
	6/23/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-2	12/11/2014	ND<1	191
	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/13/2017	ND<1	191
	6/20/2018	ND<1	191
	12/19/2018	ND<1	191
	6/12/2019	ND<1	191
	12/10/2019	ND<1	191
	6/22/2020	ND<1	191

Rank Sum = 2292  
Rank Mean = 191

GWC-3A	12/11/2014	ND<1	191
	6/24/2015	ND<1	191
	12/9/2015	ND<1	191
	6/14/2016	ND<1	191
	12/8/2016	ND<1	191
	6/15/2017	ND<1	191
	12/12/2017	ND<1	191
	6/20/2018	ND<1	191
	12/17/2018	ND<1	191
	6/11/2019	ND<1	191

12/10/2019 ND<1 191  
 6/24/2020 ND<1 191  
 Rank Sum = 2292  
 Rank Mean = 191

GWC-4 12/11/2014 ND<1 191  
 6/24/2015 ND<1 191  
 12/9/2015 ND<1 191  
 6/16/2016 ND<1 191  
 12/7/2016 ND<1 191  
 6/20/2018 ND<1 191  
 6/23/2020 ND<1 191  
 Rank Sum = 1337  
 Rank Mean = 191

GWC-4A 12/11/2014 ND<1 191  
 6/24/2015 ND<1 191  
 12/9/2015 ND<1 191  
 6/16/2016 ND<1 191  
 12/7/2016 ND<1 191  
 6/13/2017 ND<1 191  
 12/12/2017 ND<1 191  
 6/20/2018 ND<1 191  
 12/17/2018 ND<1 191  
 6/11/2019 ND<1 191  
 12/11/2019 ND<1 191  
 6/23/2020 ND<1 191  
 Rank Sum = 2292  
 Rank Mean = 191

GWC-9 12/11/2014 ND<1 191  
 6/22/2015 ND<1 191  
 12/8/2015 ND<1 191  
 6/14/2016 ND<1 191  
 12/8/2016 ND<1 191  
 6/15/2017 ND<1 191  
 12/13/2017 ND<1 191  
 6/20/2018 ND<1 191  
 12/18/2018 ND<1 191  
 6/12/2019 ND<1 191  
 12/12/2019 ND<1 191  
 6/24/2020 ND<1 191  
 Rank Sum = 2292  
 Rank Mean = 191

GWC-3 6/24/2015 ND<1 191  
 12/9/2015 ND<1 191  
 6/14/2016 ND<1 191  
 12/8/2016 ND<1 191  
 6/15/2017 ND<1 191  
 6/21/2018 ND<1 191  
 12/17/2018 ND<1 191  
 6/11/2019 ND<1 191  
 12/10/2019 ND<1 191  
 6/24/2020 ND<1 191  
 Rank Sum = 1910  
 Rank Mean = 191

**Calculation Results:**

Kruskal-Wallis H Statistic = 35.7011

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 326.375

95% Confidence comparison value is 46.1942 at 32 degrees of freedom

35.7011 < 46.1942 indicating no significant group difference at 5% significance level

**326.375 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 191

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	191	0	94.1414
GWA-3	191	0	94.1414
GWC-22	191	0	94.1414
GWC-23	191	0	94.1414
GWC-23A	191	0	94.1414
GWC-5	191	0	94.1414
GWC-7	191	0	94.1414
GWC-10	191	0	94.1414
GWC-10A	191	0	94.1414
GWC-11	191	0	94.1414
GWC-12	191	0	94.1414
GWC-12A	191	0	94.1414
GWC-6	191	0	94.1414
GWC-16A	223.833	32.8333	94.1414
GWC-14	191	0	104.077
<b>GWC-14A</b>	<b>389.75</b>	<b>198.75</b>	<b>94.1414</b>
GWC-14R	191	0	94.1414
GWC-15	206.917	15.9167	94.1414
GWC-17	191	0	96.9522
GWC-18	191	0	94.1414
GWC-19R	191	0	94.1414
GWC-24	191	0	94.1414
GWC-8	191	0	96.9522
GWC-8A	191	0	94.1414
GWC-8R	191	0	94.1414
GWC-13	191	0	94.1414
GWC-2	191	0	94.1414
GWC-3A	191	0	94.1414
GWC-4	191	0	114.38
GWC-4A	191	0	94.1414
GWC-9	191	0	94.1414
GWC-3	191	0	100.221

**Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)**

0.15625% Z score is 3.09024

Mean background rank is 191

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	191	0	125.055
GWA-3	191	0	125.055
GWC-22	191	0	125.055
GWC-23	191	0	125.055
GWC-23A	191	0	125.055

GWC-5	191	0	125.055
GWC-7	191	0	125.055
GWC-10	191	0	125.055
GWC-10A	191	0	125.055
GWC-11	191	0	125.055
GWC-12	191	0	125.055
GWC-12A	191	0	125.055
GWC-6	191	0	125.055
GWC-16A	223.833	32.8333	125.055
GWC-14	191	0	138.253
<b>GWC-14A</b>	<b>389.75</b>	<b>198.75</b>	<b>125.055</b>
GWC-14R	191	0	125.055
GWC-15	206.917	15.9167	125.055
GWC-17	191	0	128.789
GWC-18	191	0	125.055
GWC-19R	191	0	125.055
GWC-24	191	0	125.055
GWC-8	191	0	128.789
GWC-8A	191	0	125.055
GWC-8R	191	0	125.055
GWC-13	191	0	125.055
GWC-2	191	0	125.055
GWC-3A	191	0	125.055
GWC-4	191	0	151.94
GWC-4A	191	0	125.055
GWC-9	191	0	125.055
GWC-3	191	0	133.131

### Kruskal-Wallis Non-Parametric Test

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

### Kruskal Wallis Ranks

#### Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2014	24	155
	6/24/2015	22	134
	12/9/2015	22	135
	6/15/2016	29	196
	12/8/2016	26	175
	6/14/2017	28	190
	12/12/2017	27	182
	6/20/2018	32	210
	12/18/2018	28	191
	6/11/2019	28	192
	12/10/2019	20.9	127
	6/24/2020	22.3	145

Rank Sum = 2032

Rank Mean = 169.333

GWA-2	12/10/2014	24	156
	6/25/2015	23	147
	12/8/2015	26	176
	6/14/2016	36	235
	12/9/2016	ND<10	59
	6/16/2017	26	177
	12/12/2017	25	166
	6/20/2018	23	148
	12/18/2018	32	211
	6/12/2019	23	149
	12/12/2019	39.5	252
	6/23/2020	20	118

Rank Sum = 1994

Rank Mean = 166.167

Background Rank Sum = 4026

Background Rank Mean = 167.75

#### Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	38	243
	6/23/2015	38	244
	12/8/2015	34	221
	6/14/2016	35	227
	12/7/2016	33	216
	6/12/2017	36	236
	12/13/2017	33	217
	6/20/2018	30	202
	12/18/2018	32	212
	6/10/2019	41	259
	12/9/2019	30	203



6/23/2020 30.3 205  
 Rank Sum = 2685  
 Rank Mean = 223.75

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GWC-23A 12/8/2014 ND<10 59  
 6/23/2015 ND<10 59  
 12/9/2015 ND<10 59  
 6/15/2016 20 119  
 12/7/2016 ND<10 59  
 6/15/2017 ND<10 59  
 12/12/2017 ND<10 59  
 6/19/2018 ND<10 59  
 12/19/2018 ND<10 59  
 6/13/2019 ND<10 59  
 12/12/2019 ND<10 59  
 6/24/2020 ND<10 59

Rank Sum = 768  
 Rank Mean = 64

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GWA-3 12/9/2014 ND<10 59  
 6/23/2015 ND<10 59  
 12/8/2015 ND<10 59  
 6/14/2016 ND<10 59  
 12/9/2016 ND<10 59  
 6/15/2017 ND<10 59  
 12/12/2017 ND<10 59  
 6/19/2018 ND<10 59  
 12/18/2018 ND<10 59  
 6/12/2019 ND<10 59  
 12/11/2019 22.9 146  
 6/23/2020 ND<10 59

Rank Sum = 795  
 Rank Mean = 66.25

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GWC-22 12/9/2014 23 150  
 6/23/2015 24 157  
 12/10/2015 24 158  
 6/16/2016 25 167  
 12/7/2016 23 151  
 6/15/2017 28 193  
 12/12/2017 ND<10 59  
 6/20/2018 24 159  
 12/19/2018 21 128  
 6/13/2019 21 129  
 12/12/2019 21.5 133  
 6/24/2020 22.1 144

Rank Sum = 1728  
 Rank Mean = 144

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GWC-23 12/9/2014 ND<10 59  
 6/23/2015 ND<10 59  
 12/9/2015 ND<10 59  
 6/16/2016 ND<10 59  
 12/7/2016 ND<10 59  
 6/15/2017 ND<10 59  
 12/12/2017 ND<10 59  
 6/19/2018 ND<10 59

12/19/2018 ND<10 59  
 6/13/2019 ND<10 59  
 12/12/2019 ND<10 59  
 6/24/2020 ND<10 59

Rank Sum = 708  
 Rank Mean = 59

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GWC-5 12/9/2014 ND<10 59  
 6/25/2015 ND<10 59  
 12/8/2015 ND<10 59  
 6/15/2016 ND<10 59  
 12/9/2016 ND<10 59  
 6/13/2017 ND<10 59  
 12/13/2017 ND<10 59  
 6/21/2018 ND<10 59  
 12/19/2018 ND<10 59  
 6/13/2019 ND<10 59  
 12/11/2019 ND<10 59  
 6/24/2020 ND<10 59

Rank Sum = 708  
 Rank Mean = 59

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GWC-7 12/9/2014 55 293  
 6/25/2015 54 291  
 12/8/2015 47 278  
 6/16/2016 46 274  
 12/9/2016 46 275  
 6/13/2017 52 286  
 12/13/2017 46 276  
 6/20/2018 49 281  
 12/19/2018 51 284  
 6/13/2019 48 279  
 12/12/2019 49.9 282  
 6/25/2020 36.4 238

Rank Sum = 3337  
 Rank Mean = 278.083

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GWC-10 12/10/2014 ND<10 59  
 6/23/2015 22 136  
 12/8/2015 ND<10 59  
 6/15/2016 21 130  
 12/9/2016 20 120  
 6/16/2017 20 121  
 12/13/2017 48 280  
 6/20/2018 ND<10 59  
 12/18/2018 ND<10 59  
 6/11/2019 22 137  
 12/13/2019 ND<10 59  
 6/25/2020 ND<10 59

Rank Sum = 1278  
 Rank Mean = 106.5

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GWC-10A 12/10/2014 27 183  
 6/23/2015 27 184  
 12/8/2015 27 185  
 6/15/2016 29 197  
 12/9/2016 31 207

6/16/2017	31	208
12/13/2017	32	213
6/20/2018	34	222
12/18/2018	35	228
6/11/2019	33	218
12/13/2019	35.2	233
6/25/2020	29.6	200

Rank Sum = 2478  
Rank Mean = 206.5

GWC-11	12/10/2014	25	168
	6/23/2015	28	194
	12/8/2015	27	186
	6/15/2016	24	160
	12/8/2016	22	138
	6/15/2017	24	161
	12/14/2017	42	264
	6/20/2018	21	131
	12/20/2018	ND<10	59
	6/13/2019	40	253
	12/13/2019	35.9	234
	6/25/2020	25.9	174

Rank Sum = 2122  
Rank Mean = 176.833

GWC-12	12/10/2014	21	132
	6/23/2015	26	178
	12/8/2015	ND<10	59
	6/15/2016	20	122
	12/8/2016	ND<10	59
	6/15/2017	ND<10	59
	12/14/2017	ND<10	59
	6/20/2018	ND<10	59
	12/20/2018	34	223
	6/12/2019	20	123
	12/10/2019	ND<10	59
	6/25/2020	ND<10	59

Rank Sum = 1191  
Rank Mean = 99.25

GWC-12A	12/10/2014	ND<10	59
	6/23/2015	ND<10	59
	12/8/2015	ND<10	59
	6/15/2016	ND<10	59
	12/8/2016	ND<10	59
	6/15/2017	ND<10	59
	12/14/2017	ND<10	59
	6/20/2018	ND<10	59
	12/20/2018	ND<10	59
	6/12/2019	ND<10	59
	12/10/2019	ND<10	59
	6/25/2020	ND<10	59

Rank Sum = 708  
Rank Mean = 59

GWC-14A	12/10/2014	220	356
	6/24/2015	210	354

12/10/2015	200	352
6/16/2016	200	353
12/8/2016	220	357
6/13/2017	210	355
12/13/2017	180	346
6/21/2018	190	351
12/19/2018	180	347
6/12/2019	170	342
12/11/2019	170	343
6/24/2020	171	345

Rank Sum = 4201  
Rank Mean = 350.083

GWC-6	12/10/2014	ND<10	59
	6/23/2015	ND<10	59
	12/9/2015	ND<10	59
	6/15/2016	ND<10	59
	12/9/2016	ND<10	59
	6/13/2017	ND<10	59
	12/14/2017	ND<10	59
	6/21/2018	37	239
	12/20/2018	ND<10	59
	6/13/2019	ND<10	59
	12/11/2019	ND<10	59
	6/25/2020	ND<10	59

Rank Sum = 888  
Rank Mean = 74

GWC-16A	12/11/2014	32	214
	6/24/2015	41	260
	12/10/2015	260	361
	6/17/2016	29	198
	12/8/2016	35	229
	6/15/2017	170	344
	12/14/2017	29	199
	6/21/2018	34	224
	12/20/2018	24	162
	6/13/2019	26	179
	12/12/2019	26.7	181
	6/23/2020	23.6	154

Rank Sum = 2705  
Rank Mean = 225.417

GWC-14	12/11/2014	52	287
	6/24/2015	58	297
	12/10/2015	62	305
	6/15/2016	26	180
	6/21/2018	35	230
	6/12/2019	35	231
	12/11/2019	41.2	263
	6/25/2020	ND<10	59

Rank Sum = 1852  
Rank Mean = 231.5

GWC-15	12/11/2014	63	307
	6/24/2015	87	321
	12/9/2015	94	324

6/16/2016	61	304
12/8/2016	60	302
6/14/2017	120	332
12/14/2017	99	329
6/20/2018	98	328
12/19/2018	58	298
6/11/2019	60	303
12/10/2019	42.3	266
6/25/2020	62.7	306

Rank Sum = 3720  
Rank Mean = 310

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GWC-17	12/11/2014	65	308
	6/23/2015	43	267
	12/8/2015	41	261
	6/14/2016	38	245
	6/15/2017	45	272
	12/13/2017	35	232
	6/20/2018	34	225
	12/20/2018	69	312
	6/13/2019	43	268
	12/11/2019	37.1	241
	6/24/2020	30.9	206

Rank Sum = 2837  
Rank Mean = 257.909

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GWC-18	12/11/2014	160	339
	6/23/2015	220	358
	12/10/2015	140	336
	6/14/2016	250	360
	12/7/2016	180	348
	6/15/2017	180	349
	12/14/2017	150	338
	6/20/2018	280	362
	12/19/2018	140	337
	6/12/2019	230	359
	12/10/2019	181	350
	6/24/2020	168	341

Rank Sum = 4177  
Rank Mean = 348.083

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GWC-19R	12/11/2014	120	333
	6/23/2015	94	325
	12/10/2015	100	330
	6/16/2016	93	323
	12/7/2016	130	335
	6/15/2017	97	326
	12/14/2017	120	334
	6/20/2018	81	318
	12/19/2018	160	340
	6/12/2019	97	327
	12/10/2019	89.2	322
	6/24/2020	83	320

Rank Sum = 3933  
Rank Mean = 327.75

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GWC-8	12/11/2014	25	169
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6/24/2015	20	124
12/10/2015	ND<10	59
6/16/2016	22	139
12/9/2016	22	140
12/13/2017	23	152
6/21/2018	ND<10	59
6/13/2019	30	204
12/12/2019	28.6	195
6/24/2020	52.4	289

Rank Sum = 1530  
Rank Mean = 153

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GWC-8A	12/11/2014	43	269
	6/24/2015	50	283
	12/10/2015	41	262
	6/16/2016	40	254
	12/9/2016	55	294
	6/14/2017	66	309
	12/13/2017	42	265
	6/21/2018	51	285
	12/20/2018	55	295
	6/13/2019	33	219
	12/12/2019	56	296
	6/24/2020	43.9	271

Rank Sum = 3302  
Rank Mean = 275.167

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GWC-13	12/12/2014	31	209
	6/23/2015	37	240
	12/8/2015	34	226
	6/16/2016	ND<10	59
	12/8/2016	ND<10	59
	6/15/2017	ND<10	59
	12/13/2017	ND<10	59
	6/20/2018	36	237
	12/20/2018	ND<10	59
	6/13/2019	ND<10	59
	12/12/2019	32.7	215
	6/24/2020	ND<10	59

Rank Sum = 1540  
Rank Mean = 128.333

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GWC-2	12/12/2014	22	141
	6/25/2015	ND<10	59
	12/10/2015	ND<10	59
	6/15/2016	ND<10	59
	12/9/2016	ND<10	59
	6/16/2017	ND<10	59
	12/14/2017	ND<10	59
	6/21/2018	ND<10	59
	12/20/2018	ND<10	59
	6/13/2019	ND<10	59
	6/23/2020	27.5	189

Rank Sum = 861  
Rank Mean = 78.2727

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GWC-3A	12/12/2014	40	255
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6/25/2015	39	249
12/10/2015	40	256
6/15/2016	38	246
12/9/2016	43	270
6/16/2017	40	257
12/13/2017	38	247
6/21/2018	39	250
12/18/2018	38	248
6/12/2019	46	277
12/11/2019	40.7	258
6/25/2020	37.1	242

Rank Sum = 3055  
Rank Mean = 254.583

GWC-4	12/12/2014	24	163
	6/25/2015	24	164
	12/10/2015	23	153
	6/17/2016	24	165
	12/8/2016	25	170
	6/21/2018	20	125
	6/24/2020	25.6	172

Rank Sum = 1112  
Rank Mean = 158.857

GWC-4A	12/12/2014	45	273
	6/25/2015	22	142
	12/10/2015	39	251
	6/17/2016	ND<10	59
	12/8/2016	59	300
	6/14/2017	33	220
	12/13/2017	81	319
	6/21/2018	22	143
	12/18/2018	25	171
	6/12/2019	74	314
	12/12/2019	ND<10	59
	6/24/2020	29.9	201

Rank Sum = 2452  
Rank Mean = 204.333

GWC-9	12/12/2014	59	301
	6/23/2015	110	331
	12/9/2015	52	288
	6/15/2016	80	316
	12/9/2016	67	310
	6/16/2017	58	299
	12/14/2017	54	292
	6/21/2018	73	313
	12/19/2018	53	290
	6/13/2019	80	317
	12/13/2019	67.9	311
	6/25/2020	78.5	315

Rank Sum = 3683  
Rank Mean = 306.917

GWC-24	6/23/2015	ND<10	59
	6/14/2016	27	187
	6/15/2017	ND<10	59

6/20/2018	ND<10	59
6/12/2019	20	126
12/10/2019	27.4	188
6/25/2020	25.8	173

Rank Sum = 851  
Rank Mean = 121.571

GWC-3	6/25/2015	ND<10	59
	12/10/2015	ND<10	59
	6/15/2016	ND<10	59
	6/21/2018	ND<10	59
	12/18/2018	ND<10	59
	6/12/2019	ND<10	59
	12/11/2019	ND<10	59
	6/25/2020	ND<10	59

Rank Sum = 472  
Rank Mean = 59

**Calculation Results:**

Kruskal-Wallis H Statistic = 294.4

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 304.686

95% Confidence comparison value is 43.773 at 30 degrees of freedom

**294.4 > 43.773 indicating a significant group difference at 5% significance level**

**304.686 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 167.75

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	223.75	56	86.0688
GWC-23A	64	-103.75	86.0688
GWA-3	66.25	-101.5	86.0688
GWC-22	144	-23.75	86.0688
GWC-23	59	-108.75	86.0688
GWC-5	59	-108.75	86.0688
<b>GWC-7</b>	<b>278.083</b>	<b>110.333</b>	<b>86.0688</b>
GWC-10	106.5	-61.25	86.0688
GWC-10A	206.5	38.75	86.0688
GWC-11	176.833	9.08333	86.0688
GWC-12	99.25	-68.5	86.0688
GWC-12A	59	-108.75	86.0688
<b>GWC-14A</b>	<b>350.083</b>	<b>182.333</b>	<b>86.0688</b>
GWC-6	74	-93.75	86.0688
GWC-16A	225.417	57.6667	86.0688
GWC-14	231.5	63.75	99.3836
<b>GWC-15</b>	<b>310</b>	<b>142.25</b>	<b>86.0688</b>
<b>GWC-17</b>	<b>257.909</b>	<b>90.1591</b>	<b>88.6385</b>
<b>GWC-18</b>	<b>348.083</b>	<b>180.333</b>	<b>86.0688</b>
<b>GWC-19R</b>	<b>327.75</b>	<b>160</b>	<b>86.0688</b>
GWC-8	153	-14.75	91.6272
<b>GWC-8A</b>	<b>275.167</b>	<b>107.417</b>	<b>86.0688</b>
GWC-13	128.333	-39.4167	86.0688
GWC-2	78.2727	-89.4773	88.6385
<b>GWC-3A</b>	<b>254.583</b>	<b>86.8333</b>	<b>86.0688</b>
GWC-4	158.857	-8.89286	104.572

GWC-4A	204.333	36.5833	86.0688
<b>GWC-9</b>	<b>306.917</b>	<b>139.167</b>	<b>86.0688</b>
GWC-24	121.571	-46.1786	104.572
GWC-3	59	-108.75	99.3836

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024  
Mean background rank is 167.75

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	223.75	56	114.331
GWC-23A	64	-103.75	114.331
GWA-3	66.25	-101.5	114.331
GWC-22	144	-23.75	114.331
GWC-23	59	-108.75	114.331
GWC-5	59	-108.75	114.331
GWC-7	278.083	110.333	114.331
GWC-10	106.5	-61.25	114.331
GWC-10A	206.5	38.75	114.331
GWC-11	176.833	9.08333	114.331
GWC-12	99.25	-68.5	114.331
GWC-12A	59	-108.75	114.331
<b>GWC-14A</b>	<b>350.083</b>	<b>182.333</b>	<b>114.331</b>
GWC-6	74	-93.75	114.331
GWC-16A	225.417	57.6667	114.331
GWC-14	231.5	63.75	132.018
<b>GWC-15</b>	<b>310</b>	<b>142.25</b>	<b>114.331</b>
GWC-17	257.909	90.1591	117.745
<b>GWC-18</b>	<b>348.083</b>	<b>180.333</b>	<b>114.331</b>
<b>GWC-19R</b>	<b>327.75</b>	<b>160</b>	<b>114.331</b>
GWC-8	153	-14.75	121.715
GWC-8A	275.167	107.417	114.331
GWC-13	128.333	-39.4167	114.331
GWC-2	78.2727	-89.4773	117.745
GWC-3A	254.583	86.8333	114.331
GWC-4	158.857	-8.89286	138.911
GWC-4A	204.333	36.5833	114.331
<b>GWC-9</b>	<b>306.917</b>	<b>139.167</b>	<b>114.331</b>
GWC-24	121.571	-46.1786	138.911
GWC-3	59	-108.75	132.018

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Chromium**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/9/2014	ND<5	179
	6/24/2015	ND<5	179
	12/9/2015	ND<5	179
	6/15/2016	ND<5	179
	12/8/2016	ND<5	179
	6/14/2017	ND<5	179
	12/12/2017	ND<5	179
	6/20/2018	ND<5	179
	12/18/2018	ND<5	179
	6/11/2019	ND<5	179
	12/10/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2148

Rank Mean = 179

GWA-2	12/10/2014	ND<5	179
	6/25/2015	ND<5	179
	12/8/2015	ND<5	179
	6/14/2016	ND<5	179
	12/9/2016	ND<5	179
	6/16/2017	ND<5	179
	12/12/2017	ND<5	179
	6/20/2018	ND<5	179
	12/18/2018	ND<5	179
	6/12/2019	ND<5	179
	12/12/2019	ND<5	179
	6/23/2020	ND<5	179

Rank Sum = 2148

Rank Mean = 179

Background Rank Sum = 4296

Background Rank Mean = 179

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/14/2016	ND<5	179
	12/7/2016	ND<5	179
	6/12/2017	ND<5	179
	12/13/2017	ND<5	179
	6/20/2018	ND<5	179
	12/18/2018	ND<5	179
	6/10/2019	ND<5	179
	12/9/2019	ND<5	179

6/23/2020 ND<5 179  
Rank Sum = 2148  
Rank Mean = 179

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GWC-23A 12/8/2014 ND<5 179  
6/23/2015 ND<5 179  
12/9/2015 ND<5 179  
6/15/2016 ND<5 179  
12/7/2016 ND<5 179  
6/15/2017 ND<5 179  
12/12/2017 ND<5 179  
6/19/2018 ND<5 179  
12/19/2018 ND<5 179  
6/13/2019 ND<5 179  
12/12/2019 ND<5 179  
6/24/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWA-3 12/9/2014 ND<5 179  
6/23/2015 ND<5 179  
12/8/2015 ND<5 179  
6/14/2016 ND<5 179  
12/9/2016 ND<5 179  
6/15/2017 ND<5 179  
12/12/2017 ND<5 179  
6/19/2018 ND<5 179  
12/18/2018 ND<5 179  
6/12/2019 ND<5 179  
12/11/2019 ND<5 179  
6/23/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWC-22 12/9/2014 ND<5 179  
6/23/2015 ND<5 179  
12/10/2015 ND<5 179  
6/16/2016 ND<5 179  
12/7/2016 ND<5 179  
6/15/2017 ND<5 179  
12/12/2017 ND<5 179  
6/20/2018 ND<5 179  
12/19/2018 ND<5 179  
6/13/2019 ND<5 179  
12/12/2019 ND<5 179  
6/24/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWC-23 12/9/2014 ND<5 179  
6/23/2015 ND<5 179  
12/9/2015 ND<5 179  
6/16/2016 ND<5 179  
12/7/2016 11 358  
6/15/2017 ND<5 179  
12/12/2017 ND<5 179  
6/19/2018 ND<5 179

12/19/2018 ND<5 179  
6/13/2019 ND<5 179  
12/12/2019 ND<5 179  
6/24/2020 ND<5 179

Rank Sum = 2327  
Rank Mean = 193.917

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GWC-5 12/9/2014 ND<5 179  
6/25/2015 ND<5 179  
12/8/2015 ND<5 179  
6/15/2016 ND<5 179  
12/9/2016 ND<5 179  
6/13/2017 ND<5 179  
12/13/2017 ND<5 179  
6/21/2018 ND<5 179  
12/19/2018 ND<5 179  
6/13/2019 ND<5 179  
12/11/2019 ND<5 179  
6/24/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWC-7 12/9/2014 ND<5 179  
6/25/2015 ND<5 179  
12/8/2015 ND<5 179  
6/16/2016 ND<5 179  
12/9/2016 ND<5 179  
6/13/2017 ND<5 179  
12/13/2017 ND<5 179  
6/20/2018 ND<5 179  
12/19/2018 ND<5 179  
6/13/2019 ND<5 179  
12/12/2019 ND<5 179  
6/25/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWC-10 12/10/2014 ND<5 179  
6/23/2015 ND<5 179  
12/8/2015 ND<5 179  
6/15/2016 ND<5 179  
12/9/2016 ND<5 179  
6/16/2017 ND<5 179  
12/13/2017 ND<5 179  
6/20/2018 ND<5 179  
12/18/2018 ND<5 179  
6/11/2019 ND<5 179  
12/13/2019 ND<5 179  
6/25/2020 ND<5 179

Rank Sum = 2148  
Rank Mean = 179

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GWC-10A 12/10/2014 ND<5 179  
6/23/2015 ND<5 179  
12/8/2015 ND<5 179  
6/15/2016 ND<5 179  
12/9/2016 ND<5 179

6/16/2017	ND<5	179
12/13/2017	ND<5	179
6/20/2018	ND<5	179
12/18/2018	ND<5	179
6/11/2019	ND<5	179
12/13/2019	ND<5	179
6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-11	12/10/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/15/2016	ND<5	179
	12/8/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/13/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-12	12/10/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/15/2016	ND<5	179
	12/8/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/20/2018	ND<5	179
	6/12/2019	ND<5	179
	12/10/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-12A	12/10/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/15/2016	ND<5	179
	12/8/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/20/2018	ND<5	179
	6/12/2019	ND<5	179
	12/10/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-14A	12/10/2014	ND<5	179
	6/24/2015	ND<5	179

12/10/2015	ND<5	179
6/16/2016	ND<5	179
12/8/2016	ND<5	179
6/13/2017	ND<5	179
12/13/2017	ND<5	179
6/21/2018	ND<5	179
12/19/2018	ND<5	179
6/12/2019	ND<5	179
12/11/2019	ND<5	179
6/24/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-6	12/10/2014	ND<5	179
	6/23/2015	ND<5	179
	12/9/2015	ND<5	179
	6/15/2016	12	360
	12/9/2016	ND<5	179
	6/13/2017	ND<5	179
	12/14/2017	ND<5	179
	6/21/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/11/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2329  
Rank Mean = 194.083

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GWC-16A	12/11/2014	ND<5	179
	6/24/2015	ND<5	179
	12/10/2015	ND<5	179
	6/17/2016	ND<5	179
	12/8/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/21/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/12/2019	ND<5	179
	6/23/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-14	12/11/2014	ND<5	179
	6/24/2015	ND<5	179
	12/10/2015	ND<5	179
	6/15/2016	ND<5	179
	6/21/2018	ND<5	179
	6/12/2019	ND<5	179
	12/11/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 1432  
Rank Mean = 179

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GWC-15	12/11/2014	ND<5	179
	6/24/2015	ND<5	179
	12/9/2015	ND<5	179

	6/16/2016	ND<5	179
	12/8/2016	ND<5	179
	6/14/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/19/2018	ND<5	179
	6/11/2019	ND<5	179
	12/10/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-17	12/11/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/14/2016	ND<5	179
	6/15/2017	ND<5	179
	12/13/2017	ND<5	179
	6/20/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/11/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 1969  
Rank Mean = 179

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GWC-18	12/11/2014	ND<5	179
	6/23/2015	ND<5	179
	12/10/2015	ND<5	179
	6/14/2016	ND<5	179
	12/7/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/19/2018	ND<5	179
	6/12/2019	ND<5	179
	12/10/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-19R	12/11/2014	ND<5	179
	6/23/2015	ND<5	179
	12/10/2015	ND<5	179
	6/16/2016	ND<5	179
	12/7/2016	ND<5	179
	6/15/2017	ND<5	179
	12/14/2017	ND<5	179
	6/20/2018	ND<5	179
	12/19/2018	ND<5	179
	6/12/2019	ND<5	179
	12/10/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-8	12/11/2014	ND<5	179
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	6/24/2015	ND<5	179
	12/10/2015	ND<5	179
	6/16/2016	ND<5	179
	12/9/2016	ND<5	179
	12/13/2017	ND<5	179
	6/21/2018	ND<5	179
	6/13/2019	ND<5	179
	12/12/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 1790  
Rank Mean = 179

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GWC-8A	12/11/2014	ND<5	179
	6/24/2015	ND<5	179
	12/10/2015	ND<5	179
	6/16/2016	ND<5	179
	12/9/2016	ND<5	179
	6/14/2017	ND<5	179
	12/13/2017	ND<5	179
	6/21/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/12/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-13	12/12/2014	ND<5	179
	6/23/2015	ND<5	179
	12/8/2015	ND<5	179
	6/16/2016	ND<5	179
	12/8/2016	ND<5	179
	6/15/2017	ND<5	179
	12/13/2017	ND<5	179
	6/20/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	12/12/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-2	12/12/2014	ND<5	179
	6/25/2015	ND<5	179
	12/10/2015	ND<5	179
	6/15/2016	ND<5	179
	12/9/2016	ND<5	179
	6/16/2017	ND<5	179
	12/14/2017	ND<5	179
	6/21/2018	ND<5	179
	12/20/2018	ND<5	179
	6/13/2019	ND<5	179
	6/23/2020	ND<5	179

Rank Sum = 1969  
Rank Mean = 179

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GWC-3A	12/12/2014	ND<5	179
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6/25/2015	ND<5	179
12/10/2015	ND<5	179
6/15/2016	ND<5	179
12/9/2016	ND<5	179
6/16/2017	ND<5	179
12/13/2017	ND<5	179
6/21/2018	ND<5	179
12/18/2018	ND<5	179
6/12/2019	ND<5	179
12/11/2019	ND<5	179
6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-4	12/12/2014	ND<5	179
	6/25/2015	ND<5	179
	12/10/2015	ND<5	179
	6/17/2016	ND<5	179
	12/8/2016	ND<5	179
	6/21/2018	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 1253  
Rank Mean = 179

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GWC-4A	12/12/2014	ND<5	179
	6/25/2015	ND<5	179
	12/10/2015	11	359
	6/17/2016	ND<5	179
	12/8/2016	ND<5	179
	6/14/2017	ND<5	179
	12/13/2017	19	361
	6/21/2018	ND<5	179
	12/18/2018	ND<5	179
	6/12/2019	26	362
	12/12/2019	ND<5	179
	6/24/2020	ND<5	179

Rank Sum = 2693  
Rank Mean = 224.417

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GWC-9	12/12/2014	ND<5	179
	6/23/2015	ND<5	179
	12/9/2015	ND<5	179
	6/15/2016	ND<5	179
	12/9/2016	ND<5	179
	6/16/2017	ND<5	179
	12/14/2017	ND<5	179
	6/21/2018	ND<5	179
	12/19/2018	ND<5	179
	6/13/2019	ND<5	179
	12/13/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 2148  
Rank Mean = 179

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GWC-24	6/23/2015	ND<5	179
	6/14/2016	ND<5	179
	6/15/2017	ND<5	179

6/20/2018	ND<5	179
6/12/2019	ND<5	179
12/10/2019	ND<5	179
6/25/2020	ND<5	179

Rank Sum = 1253  
Rank Mean = 179

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GWC-3	6/25/2015	ND<5	179
	12/10/2015	ND<5	179
	6/15/2016	ND<5	179
	6/21/2018	ND<5	179
	12/18/2018	ND<5	179
	6/12/2019	ND<5	179
	12/11/2019	ND<5	179
	6/25/2020	ND<5	179

Rank Sum = 1432  
Rank Mean = 179

**Calculation Results:**

Kruskal-Wallis H Statistic = 2.54689

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 62.3215

95% Confidence comparison value is 43.773 at 30 degrees of freedom

2.54689 < 43.773 indicating no significant group difference at 5% significance level

**62.3215 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 179

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	179	0	86.0688
GWC-23A	179	0	86.0688
GWA-3	179	0	86.0688
GWC-22	179	0	86.0688
GWC-23	193.917	14.9167	86.0688
GWC-5	179	0	86.0688
GWC-7	179	0	86.0688
GWC-10	179	0	86.0688
GWC-10A	179	0	86.0688
GWC-11	179	0	86.0688
GWC-12	179	0	86.0688
GWC-12A	179	0	86.0688
GWC-14A	179	0	86.0688
GWC-6	194.083	15.0833	86.0688
GWC-16A	179	0	86.0688
GWC-14	179	0	99.3836
GWC-15	179	0	86.0688
GWC-17	179	0	88.6385
GWC-18	179	0	86.0688
GWC-19R	179	0	86.0688
GWC-8	179	0	91.6272
GWC-8A	179	0	86.0688
GWC-13	179	0	86.0688
GWC-2	179	0	88.6385
GWC-3A	179	0	86.0688
GWC-4	179	0	104.572

GWC-4A	224.417	45.4167	86.0688
GWC-9	179	0	86.0688
GWC-24	179	0	104.572
GWC-3	179	0	99.3836

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024  
Mean background rank is 179

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	179	0	114.331
GWC-23A	179	0	114.331
GWA-3	179	0	114.331
GWC-22	179	0	114.331
GWC-23	193.917	14.9167	114.331
GWC-5	179	0	114.331
GWC-7	179	0	114.331
GWC-10	179	0	114.331
GWC-10A	179	0	114.331
GWC-11	179	0	114.331
GWC-12	179	0	114.331
GWC-12A	179	0	114.331
GWC-14A	179	0	114.331
GWC-6	194.083	15.0833	114.331
GWC-16A	179	0	114.331
GWC-14	179	0	132.018
GWC-15	179	0	114.331
GWC-17	179	0	117.745
GWC-18	179	0	114.331
GWC-19R	179	0	114.331
GWC-8	179	0	121.715
GWC-8A	179	0	114.331
GWC-13	179	0	114.331
GWC-2	179	0	117.745
GWC-3A	179	0	114.331
GWC-4	179	0	138.911
GWC-4A	224.417	45.4167	114.331
GWC-9	179	0	114.331
GWC-24	179	0	138.911
GWC-3	179	0	132.018

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Cobalt**

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/9/2014	ND<20	169
	6/24/2015	ND<20	169
	12/9/2015	ND<20	169
	6/15/2016	ND<20	169
	12/8/2016	ND<20	169
	6/14/2017	ND<20	169
	12/12/2017	ND<20	169
	6/20/2018	ND<20	169
	12/18/2018	ND<20	169
	6/11/2019	ND<20	169
	12/10/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2028

Rank Mean = 169

GWA-2	12/10/2014	ND<20	169
	6/25/2015	ND<20	169
	12/8/2015	ND<20	169
	6/14/2016	ND<20	169
	12/9/2016	ND<20	169
	6/16/2017	ND<20	169
	12/12/2017	ND<20	169
	6/20/2018	ND<20	169
	12/18/2018	ND<20	169
	6/12/2019	ND<20	169
	12/12/2019	ND<20	169
	6/23/2020	ND<20	169

Rank Sum = 2028

Rank Mean = 169

Background Rank Sum = 4056

Background Rank Mean = 169

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/14/2016	ND<20	169
	12/7/2016	ND<20	169
	6/12/2017	ND<20	169
	12/13/2017	ND<20	169
	6/20/2018	ND<20	169
	12/18/2018	ND<20	169
	6/10/2019	ND<20	169
	12/9/2019	ND<20	169

6/23/2020 ND<20 169  
Rank Sum = 2028  
Rank Mean = 169

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GWC-23A 12/8/2014 ND<20 169  
6/23/2015 ND<20 169  
12/9/2015 ND<20 169  
6/15/2016 ND<20 169  
12/7/2016 ND<20 169  
6/15/2017 ND<20 169  
12/12/2017 ND<20 169  
6/19/2018 ND<20 169  
12/19/2018 ND<20 169  
6/13/2019 ND<20 169  
12/12/2019 ND<20 169  
6/24/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWA-3 12/9/2014 ND<20 169  
6/23/2015 ND<20 169  
12/8/2015 ND<20 169  
6/14/2016 ND<20 169  
12/9/2016 ND<20 169  
6/15/2017 ND<20 169  
12/12/2017 ND<20 169  
6/19/2018 ND<20 169  
12/18/2018 ND<20 169  
6/12/2019 ND<20 169  
12/11/2019 ND<20 169  
6/23/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-22 12/9/2014 ND<20 169  
6/23/2015 ND<20 169  
12/10/2015 ND<20 169  
6/16/2016 ND<20 169  
12/7/2016 ND<20 169  
6/15/2017 ND<20 169  
12/12/2017 ND<20 169  
6/20/2018 ND<20 169  
12/19/2018 ND<20 169  
6/13/2019 ND<20 169  
12/12/2019 ND<20 169  
6/24/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-23 12/9/2014 ND<20 169  
6/23/2015 ND<20 169  
12/9/2015 ND<20 169  
6/16/2016 ND<20 169  
12/7/2016 ND<20 169  
6/15/2017 ND<20 169  
12/12/2017 ND<20 169  
6/19/2018 ND<20 169

12/19/2018 ND<20 169  
6/13/2019 ND<20 169  
12/12/2019 ND<20 169  
6/24/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-5 12/9/2014 ND<20 169  
6/25/2015 ND<20 169  
12/8/2015 ND<20 169  
6/15/2016 ND<20 169  
12/9/2016 ND<20 169  
6/13/2017 ND<20 169  
12/13/2017 ND<20 169  
6/21/2018 ND<20 169  
12/19/2018 ND<20 169  
6/13/2019 ND<20 169  
12/11/2019 ND<20 169  
6/24/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-7 12/9/2014 ND<20 169  
6/25/2015 ND<20 169  
12/8/2015 ND<20 169  
6/16/2016 ND<20 169  
12/9/2016 ND<20 169  
6/13/2017 ND<20 169  
12/13/2017 ND<20 169  
6/20/2018 ND<20 169  
12/19/2018 ND<20 169  
6/13/2019 ND<20 169  
12/12/2019 ND<20 169  
6/25/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-10 12/10/2014 ND<20 169  
6/23/2015 ND<20 169  
12/8/2015 ND<20 169  
6/15/2016 ND<20 169  
12/9/2016 ND<20 169  
6/16/2017 ND<20 169  
12/13/2017 ND<20 169  
6/20/2018 ND<20 169  
12/18/2018 ND<20 169  
6/11/2019 ND<20 169  
12/13/2019 ND<20 169  
6/25/2020 ND<20 169

Rank Sum = 2028  
Rank Mean = 169

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GWC-10A 12/10/2014 ND<20 169  
6/23/2015 ND<20 169  
12/8/2015 ND<20 169  
6/15/2016 ND<20 169  
12/9/2016 ND<20 169

6/16/2017	ND<20	169
12/13/2017	ND<20	169
6/20/2018	ND<20	169
12/18/2018	ND<20	169
6/11/2019	ND<20	169
12/13/2019	ND<20	169
6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-11	12/10/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/15/2016	ND<20	169
	12/8/2016	ND<20	169
	6/15/2017	ND<20	169
	12/14/2017	ND<20	169
	6/20/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/13/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-12	12/10/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/15/2016	ND<20	169
	12/8/2016	ND<20	169
	6/15/2017	ND<20	169
	12/14/2017	ND<20	169
	6/20/2018	ND<20	169
	12/20/2018	ND<20	169
	6/12/2019	ND<20	169
	12/10/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-12A	12/10/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/15/2016	ND<20	169
	12/8/2016	ND<20	169
	6/15/2017	ND<20	169
	12/14/2017	ND<20	169
	6/20/2018	ND<20	169
	12/20/2018	ND<20	169
	6/12/2019	ND<20	169
	12/10/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-14A	12/10/2014	580	361
	6/24/2015	620	362

12/10/2015	520	360
6/16/2016	490	359
12/8/2016	380	358
6/13/2017	370	357
12/13/2017	280	352
6/21/2018	310	355
12/19/2018	290	353
6/12/2019	330	356
12/11/2019	228	351
6/24/2020	301	354

Rank Sum = 4278  
Rank Mean = 356.5

GWC-6	12/10/2014	ND<20	169
	6/23/2015	ND<20	169
	12/9/2015	ND<20	169
	6/15/2016	ND<20	169
	12/9/2016	ND<20	169
	6/13/2017	ND<20	169
	12/14/2017	ND<20	169
	6/21/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/11/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-16A	12/11/2014	ND<20	169
	6/24/2015	ND<20	169
	12/10/2015	100	350
	6/17/2016	ND<20	169
	12/8/2016	ND<20	169
	6/15/2017	81	347
	12/14/2017	ND<20	169
	6/21/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/12/2019	ND<20	169
	6/23/2020	ND<20	169

Rank Sum = 2387  
Rank Mean = 198.917

GWC-14	12/11/2014	48	341
	6/24/2015	54	345
	12/10/2015	49	342
	6/15/2016	88	348
	6/21/2018	42	338
	6/12/2019	57	346
	12/11/2019	50.3	344
	6/25/2020	95.1	349

Rank Sum = 2753  
Rank Mean = 344.125

GWC-15	12/11/2014	ND<20	169
	6/24/2015	ND<20	169
	12/9/2015	ND<20	169

6/16/2016	ND<20	169
12/8/2016	ND<20	169
6/14/2017	ND<20	169
12/14/2017	ND<20	169
6/20/2018	ND<20	169
12/19/2018	ND<20	169
6/11/2019	ND<20	169
12/10/2019	ND<20	169
6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

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GWC-17	12/11/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/14/2016	ND<20	169
	6/15/2017	ND<20	169
	12/13/2017	ND<20	169
	6/20/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/11/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 1859  
Rank Mean = 169

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GWC-18	12/11/2014	ND<20	169
	6/23/2015	ND<20	169
	12/10/2015	ND<20	169
	6/14/2016	ND<20	169
	12/7/2016	ND<20	169
	6/15/2017	ND<20	169
	12/14/2017	ND<20	169
	6/20/2018	ND<20	169
	12/19/2018	ND<20	169
	6/12/2019	ND<20	169
	12/10/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

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GWC-19R	12/11/2014	ND<20	169
	6/23/2015	ND<20	169
	12/10/2015	ND<20	169
	6/16/2016	47	340
	12/7/2016	ND<20	169
	6/15/2017	ND<20	169
	12/14/2017	ND<20	169
	6/20/2018	ND<20	169
	12/19/2018	ND<20	169
	6/12/2019	ND<20	169
	12/10/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2199  
Rank Mean = 183.25

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GWC-8	12/11/2014	ND<20	169
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6/24/2015	ND<20	169
12/10/2015	ND<20	169
6/16/2016	ND<20	169
12/9/2016	ND<20	169
12/13/2017	ND<20	169
6/21/2018	ND<20	169
6/13/2019	ND<20	169
12/12/2019	ND<20	169
6/24/2020	ND<20	169

Rank Sum = 1690  
Rank Mean = 169

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GWC-8A	12/11/2014	ND<20	169
	6/24/2015	ND<20	169
	12/10/2015	ND<20	169
	6/16/2016	ND<20	169
	12/9/2016	44	339
	6/14/2017	ND<20	169
	12/13/2017	ND<20	169
	6/21/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/12/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2198  
Rank Mean = 183.167

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GWC-13	12/12/2014	ND<20	169
	6/23/2015	ND<20	169
	12/8/2015	ND<20	169
	6/16/2016	ND<20	169
	12/8/2016	ND<20	169
	6/15/2017	ND<20	169
	12/13/2017	ND<20	169
	6/20/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	12/12/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

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GWC-2	12/12/2014	ND<20	169
	6/25/2015	ND<20	169
	12/10/2015	ND<20	169
	6/15/2016	ND<20	169
	12/9/2016	ND<20	169
	6/16/2017	ND<20	169
	12/14/2017	ND<20	169
	6/21/2018	ND<20	169
	12/20/2018	ND<20	169
	6/13/2019	ND<20	169
	6/23/2020	ND<20	169

Rank Sum = 1859  
Rank Mean = 169

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GWC-3A	12/12/2014	ND<20	169
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6/25/2015	ND<20	169
12/10/2015	ND<20	169
6/15/2016	ND<20	169
12/9/2016	ND<20	169
6/16/2017	ND<20	169
12/13/2017	ND<20	169
6/21/2018	ND<20	169
12/18/2018	ND<20	169
6/12/2019	ND<20	169
12/11/2019	ND<20	169
6/25/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-4	12/12/2014	ND<20	169
	6/25/2015	ND<20	169
	12/10/2015	ND<20	169
	6/17/2016	ND<20	169
	12/8/2016	ND<20	169
	6/21/2018	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 1183  
Rank Mean = 169

GWC-4A	12/12/2014	ND<20	169
	6/25/2015	ND<20	169
	12/10/2015	ND<20	169
	6/17/2016	ND<20	169
	12/8/2016	ND<20	169
	6/14/2017	ND<20	169
	12/13/2017	ND<20	169
	6/21/2018	ND<20	169
	12/18/2018	ND<20	169
	6/12/2019	ND<20	169
	12/12/2019	ND<20	169
	6/24/2020	ND<20	169

Rank Sum = 2028  
Rank Mean = 169

GWC-9	12/12/2014	ND<20	169
	6/23/2015	ND<20	169
	12/9/2015	ND<20	169
	6/15/2016	50	343
	12/9/2016	ND<20	169
	6/16/2017	ND<20	169
	12/14/2017	ND<20	169
	6/21/2018	ND<20	169
	12/19/2018	ND<20	169
	6/13/2019	ND<20	169
	12/13/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 2202  
Rank Mean = 183.5

GWC-24	6/23/2015	ND<20	169
	6/14/2016	ND<20	169
	6/15/2017	ND<20	169

6/20/2018	ND<20	169
6/12/2019	ND<20	169
12/10/2019	ND<20	169
6/25/2020	ND<20	169

Rank Sum = 1183  
Rank Mean = 169

GWC-3	6/25/2015	ND<20	169
	12/10/2015	ND<20	169
	6/15/2016	ND<20	169
	6/21/2018	ND<20	169
	12/18/2018	ND<20	169
	6/12/2019	ND<20	169
	12/11/2019	ND<20	169
	6/25/2020	ND<20	169

Rank Sum = 1352  
Rank Mean = 169

**Calculation Results:**

Kruskal-Wallis H Statistic = 57.4194

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 297.195

95% Confidence comparison value is 43.773 at 30 degrees of freedom

**57.4194 > 43.773 indicating a significant group difference at 5% significance level**

**297.195 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 169

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	169	0	86.0688
GWC-23A	169	0	86.0688
GWA-3	169	0	86.0688
GWC-22	169	0	86.0688
GWC-23	169	0	86.0688
GWC-5	169	0	86.0688
GWC-7	169	0	86.0688
GWC-10	169	0	86.0688
GWC-10A	169	0	86.0688
GWC-11	169	0	86.0688
GWC-12	169	0	86.0688
GWC-12A	169	0	86.0688
<b>GWC-14A</b>	<b>356.5</b>	<b>187.5</b>	<b>86.0688</b>
GWC-6	169	0	86.0688
GWC-16A	198.917	29.9167	86.0688
<b>GWC-14</b>	<b>344.125</b>	<b>175.125</b>	<b>99.3836</b>
GWC-15	169	0	86.0688
GWC-17	169	0	88.6385
GWC-18	169	0	86.0688
GWC-19R	183.25	14.25	86.0688
GWC-8	169	0	91.6272
GWC-8A	183.167	14.1667	86.0688
GWC-13	169	0	86.0688
GWC-2	169	0	88.6385
GWC-3A	169	0	86.0688
GWC-4	169	0	104.572

GWC-4A	169	0	86.0688
GWC-9	183.5	14.5	86.0688
GWC-24	169	0	104.572
GWC-3	169	0	99.3836

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024  
Mean background rank is 169

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	169	0	114.331
GWC-23A	169	0	114.331
GWA-3	169	0	114.331
GWC-22	169	0	114.331
GWC-23	169	0	114.331
GWC-5	169	0	114.331
GWC-7	169	0	114.331
GWC-10	169	0	114.331
GWC-10A	169	0	114.331
GWC-11	169	0	114.331
GWC-12	169	0	114.331
GWC-12A	169	0	114.331
<b>GWC-14A</b>	<b>356.5</b>	<b>187.5</b>	<b>114.331</b>
GWC-6	169	0	114.331
GWC-16A	198.917	29.9167	114.331
<b>GWC-14</b>	<b>344.125</b>	<b>175.125</b>	<b>132.018</b>
GWC-15	169	0	114.331
GWC-17	169	0	117.745
GWC-18	169	0	114.331
GWC-19R	183.25	14.25	114.331
GWC-8	169	0	121.715
GWC-8A	183.167	14.1667	114.331
GWC-13	169	0	114.331
GWC-2	169	0	117.745
GWC-3A	169	0	114.331
GWC-4	169	0	138.911
GWC-4A	169	0	114.331
GWC-9	183.5	14.5	114.331
GWC-24	169	0	138.911
GWC-3	169	0	132.018

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Nickel**  
Original Data (Not Transformed)  
Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/9/2014	ND<10	173
	6/24/2015	ND<10	173
	12/9/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/14/2017	ND<10	173
	12/12/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/11/2019	ND<10	173
	12/10/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 2076

Rank Mean = 173

GWA-2	12/10/2014	ND<10	173
	6/25/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/12/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/12/2019	ND<10	173
	6/23/2020	ND<10	173

Rank Sum = 2076

Rank Mean = 173

Background Rank Sum = 4152

Background Rank Mean = 173

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	12/7/2016	ND<10	173
	6/12/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/18/2018	ND<10	173
	6/10/2019	ND<10	173
	12/9/2019	ND<10	173

6/23/2020 ND<10 173  
Rank Sum = 2076  
Rank Mean = 173

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GWC-23A 12/8/2014 ND<10 173  
6/23/2015 ND<10 173  
12/9/2015 ND<10 173  
6/15/2016 ND<10 173  
12/7/2016 ND<10 173  
6/15/2017 ND<10 173  
12/12/2017 ND<10 173  
6/19/2018 ND<10 173  
12/19/2018 ND<10 173  
6/13/2019 ND<10 173  
12/12/2019 ND<10 173  
6/24/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWA-3 12/9/2014 ND<10 173  
6/23/2015 ND<10 173  
12/8/2015 ND<10 173  
6/14/2016 ND<10 173  
12/9/2016 ND<10 173  
6/15/2017 ND<10 173  
12/12/2017 ND<10 173  
6/19/2018 ND<10 173  
12/18/2018 ND<10 173  
6/12/2019 ND<10 173  
12/11/2019 ND<10 173  
6/23/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-22 12/9/2014 ND<10 173  
6/23/2015 ND<10 173  
12/10/2015 ND<10 173  
6/16/2016 ND<10 173  
12/7/2016 ND<10 173  
6/15/2017 ND<10 173  
12/12/2017 ND<10 173  
6/20/2018 ND<10 173  
12/19/2018 ND<10 173  
6/13/2019 ND<10 173  
12/12/2019 ND<10 173  
6/24/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-23 12/9/2014 ND<10 173  
6/23/2015 ND<10 173  
12/9/2015 ND<10 173  
6/16/2016 ND<10 173  
12/7/2016 ND<10 173  
6/15/2017 ND<10 173  
12/12/2017 ND<10 173  
6/19/2018 ND<10 173

12/19/2018 ND<10 173  
6/13/2019 ND<10 173  
12/12/2019 ND<10 173  
6/24/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-5 12/9/2014 ND<10 173  
6/25/2015 ND<10 173  
12/8/2015 ND<10 173  
6/15/2016 ND<10 173  
12/9/2016 ND<10 173  
6/13/2017 ND<10 173  
12/13/2017 ND<10 173  
6/21/2018 ND<10 173  
12/19/2018 ND<10 173  
6/13/2019 ND<10 173  
12/11/2019 ND<10 173  
6/24/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-7 12/9/2014 ND<10 173  
6/25/2015 ND<10 173  
12/8/2015 ND<10 173  
6/16/2016 ND<10 173  
12/9/2016 ND<10 173  
6/13/2017 ND<10 173  
12/13/2017 ND<10 173  
6/20/2018 ND<10 173  
12/19/2018 ND<10 173  
6/13/2019 ND<10 173  
12/12/2019 ND<10 173  
6/25/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-10 12/10/2014 ND<10 173  
6/23/2015 ND<10 173  
12/8/2015 ND<10 173  
6/15/2016 ND<10 173  
12/9/2016 ND<10 173  
6/16/2017 ND<10 173  
12/13/2017 ND<10 173  
6/20/2018 ND<10 173  
12/18/2018 ND<10 173  
6/11/2019 ND<10 173  
12/13/2019 ND<10 173  
6/25/2020 ND<10 173

Rank Sum = 2076  
Rank Mean = 173

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GWC-10A 12/10/2014 ND<10 173  
6/23/2015 ND<10 173  
12/8/2015 ND<10 173  
6/15/2016 ND<10 173  
12/9/2016 ND<10 173



6/16/2017	ND<10	173
12/13/2017	ND<10	173
6/20/2018	ND<10	173
12/18/2018	ND<10	173
6/11/2019	ND<10	173
12/13/2019	ND<10	173
6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-11	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/13/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-12	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-12A	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/15/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-14A	12/10/2014	38	360
	6/24/2015	36	359

12/10/2015	28	355
6/16/2016	28	356
12/8/2016	27	354
6/13/2017	24	351
12/13/2017	21	347
6/21/2018	24	352
12/19/2018	20	346
6/12/2019	21	348
12/11/2019	ND<10	173
6/24/2020	22.2	350

Rank Sum = 4051  
Rank Mean = 337.583

GWC-6	12/10/2014	ND<10	173
	6/23/2015	ND<10	173
	12/9/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/13/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/11/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-16A	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/17/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173
	6/23/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-14	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	6/21/2018	ND<10	173
	6/12/2019	ND<10	173
	12/11/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 1384  
Rank Mean = 173

GWC-15	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/9/2015	ND<10	173

6/16/2016	ND<10	173
12/8/2016	ND<10	173
6/14/2017	ND<10	173
12/14/2017	ND<10	173
6/20/2018	ND<10	173
12/19/2018	ND<10	173
6/11/2019	ND<10	173
12/10/2019	ND<10	173
6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

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GWC-17	12/11/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/14/2016	ND<10	173
	6/15/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/11/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 1903  
Rank Mean = 173

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GWC-18	12/11/2014	ND<10	173
	6/23/2015	47	361
	12/10/2015	ND<10	173
	6/14/2016	ND<10	173
	12/7/2016	64	362
	6/15/2017	34	358
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/19/2018	ND<10	173
	6/12/2019	24	353
	12/10/2019	29.8	357
	6/24/2020	ND<10	173

Rank Sum = 3002  
Rank Mean = 250.167

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GWC-19R	12/11/2014	ND<10	173
	6/23/2015	ND<10	173
	12/10/2015	ND<10	173
	6/16/2016	ND<10	173
	12/7/2016	ND<10	173
	6/15/2017	ND<10	173
	12/14/2017	ND<10	173
	6/20/2018	ND<10	173
	12/19/2018	ND<10	173
	6/12/2019	ND<10	173
	12/10/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

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GWC-8	12/11/2014	ND<10	173
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6/24/2015	ND<10	173
12/10/2015	ND<10	173
6/16/2016	ND<10	173
12/9/2016	ND<10	173
12/13/2017	ND<10	173
6/21/2018	ND<10	173
6/13/2019	ND<10	173
12/12/2019	ND<10	173
6/24/2020	ND<10	173

Rank Sum = 1730  
Rank Mean = 173

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GWC-8A	12/11/2014	ND<10	173
	6/24/2015	ND<10	173
	12/10/2015	ND<10	173
	6/16/2016	ND<10	173
	12/9/2016	ND<10	173
	6/14/2017	ND<10	173
	12/13/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

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GWC-13	12/12/2014	ND<10	173
	6/23/2015	ND<10	173
	12/8/2015	ND<10	173
	6/16/2016	ND<10	173
	12/8/2016	ND<10	173
	6/15/2017	ND<10	173
	12/13/2017	ND<10	173
	6/20/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	12/12/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

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GWC-2	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/20/2018	ND<10	173
	6/13/2019	ND<10	173
	6/23/2020	ND<10	173

Rank Sum = 1903  
Rank Mean = 173

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GWC-3A	12/12/2014	ND<10	173
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6/25/2015	ND<10	173
12/10/2015	ND<10	173
6/15/2016	ND<10	173
12/9/2016	ND<10	173
6/16/2017	ND<10	173
12/13/2017	ND<10	173
6/21/2018	ND<10	173
12/18/2018	ND<10	173
6/12/2019	ND<10	173
12/11/2019	ND<10	173
6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-4	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/17/2016	ND<10	173
	12/8/2016	ND<10	173
	6/21/2018	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 1211  
Rank Mean = 173

GWC-4A	12/12/2014	ND<10	173
	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/17/2016	ND<10	173
	12/8/2016	ND<10	173
	6/14/2017	ND<10	173
	12/13/2017	ND<10	173
	6/21/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	22	349
	12/12/2019	ND<10	173
	6/24/2020	ND<10	173

Rank Sum = 2252  
Rank Mean = 187.667

GWC-9	12/12/2014	ND<10	173
	6/23/2015	ND<10	173
	12/9/2015	ND<10	173
	6/15/2016	ND<10	173
	12/9/2016	ND<10	173
	6/16/2017	ND<10	173
	12/14/2017	ND<10	173
	6/21/2018	ND<10	173
	12/19/2018	ND<10	173
	6/13/2019	ND<10	173
	12/13/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 2076  
Rank Mean = 173

GWC-24	6/23/2015	ND<10	173
	6/14/2016	ND<10	173
	6/15/2017	ND<10	173

6/20/2018	ND<10	173
6/12/2019	ND<10	173
12/10/2019	ND<10	173
6/25/2020	ND<10	173

Rank Sum = 1211  
Rank Mean = 173

GWC-3	6/25/2015	ND<10	173
	12/10/2015	ND<10	173
	6/15/2016	ND<10	173
	6/21/2018	ND<10	173
	12/18/2018	ND<10	173
	6/12/2019	ND<10	173
	12/11/2019	ND<10	173
	6/25/2020	ND<10	173

Rank Sum = 1384  
Rank Mean = 173

**Calculation Results:**

Kruskal-Wallis H Statistic = 34.0565

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 253.449

95% Confidence comparison value is 43.773 at 30 degrees of freedom

34.0565 < 43.773 indicating no significant group difference at 5% significance level

253.449 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 173

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	173	0	86.0688
GWC-23A	173	0	86.0688
GWA-3	173	0	86.0688
GWC-22	173	0	86.0688
GWC-23	173	0	86.0688
GWC-5	173	0	86.0688
GWC-7	173	0	86.0688
GWC-10	173	0	86.0688
GWC-10A	173	0	86.0688
GWC-11	173	0	86.0688
GWC-12	173	0	86.0688
GWC-12A	173	0	86.0688
<b>GWC-14A</b>	<b>337.583</b>	<b>164.583</b>	<b>86.0688</b>
GWC-6	173	0	86.0688
GWC-16A	173	0	86.0688
GWC-14	173	0	99.3836
GWC-15	173	0	86.0688
GWC-17	173	0	88.6385
GWC-18	250.167	77.1667	86.0688
GWC-19R	173	0	86.0688
GWC-8	173	0	91.6272
GWC-8A	173	0	86.0688
GWC-13	173	0	86.0688
GWC-2	173	0	88.6385
GWC-3A	173	0	86.0688
GWC-4	173	0	104.572

GWC-4A	187.667	14.6667	86.0688
GWC-9	173	0	86.0688
GWC-24	173	0	104.572
GWC-3	173	0	99.3836

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024  
Mean background rank is 173

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	173	0	114.331
GWC-23A	173	0	114.331
GWA-3	173	0	114.331
GWC-22	173	0	114.331
GWC-23	173	0	114.331
GWC-5	173	0	114.331
GWC-7	173	0	114.331
GWC-10	173	0	114.331
GWC-10A	173	0	114.331
GWC-11	173	0	114.331
GWC-12	173	0	114.331
GWC-12A	173	0	114.331
<b>GWC-14A</b>	<b>337.583</b>	<b>164.583</b>	<b>114.331</b>
GWC-6	173	0	114.331
GWC-16A	173	0	114.331
GWC-14	173	0	132.018
GWC-15	173	0	114.331
GWC-17	173	0	117.745
GWC-18	250.167	77.1667	114.331
GWC-19R	173	0	114.331
GWC-8	173	0	121.715
GWC-8A	173	0	114.331
GWC-13	173	0	114.331
GWC-2	173	0	117.745
GWC-3A	173	0	114.331
GWC-4	173	0	138.911
GWC-4A	187.667	14.6667	114.331
GWC-9	173	0	114.331
GWC-24	173	0	138.911
GWC-3	173	0	132.018

**Kruskal-Wallis Non-Parametric Test**

**Parameter: Total Zinc**  
Original Data (Not Transformed)  
Non-Detects Replaced with 1/2 DL

**Kruskal Wallis Ranks**

**Background Locations**

Loc. ID	Date	Value	Rank
GWA-1	12/9/2014	30	304
	6/24/2015	45	335
	12/9/2015	31	309
	6/15/2016	31	310
	12/8/2016	20	249
	6/14/2017	23	267
	12/12/2017	38	319
	6/20/2018	48	340
	12/18/2018	44	333
	6/11/2019	42	329
	12/10/2019	30.4	307
	6/24/2020	30.7	308

Rank Sum = 3710  
Rank Mean = 309.167

GWA-2	12/10/2014	ND<10	124.5
	6/25/2015	ND<10	124.5
	12/8/2015	ND<10	124.5
	6/14/2016	20	250
	12/9/2016	ND<10	124.5
	6/16/2017	ND<10	124.5
	12/12/2017	ND<10	124.5
	6/20/2018	ND<10	124.5
	12/18/2018	ND<10	124.5
	6/12/2019	30	305
	12/12/2019	25.9	285
	6/23/2020	ND<10	124.5

Rank Sum = 1960.5  
Rank Mean = 163.375

Background Rank Sum = 5670.5  
Background Rank Mean = 236.271

**Compliance Locations**

Loc. ID	Date	Value	Rank
GWA-1A	12/8/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/8/2015	ND<10	124.5
	6/14/2016	ND<10	124.5
	12/7/2016	ND<10	124.5
	6/12/2017	ND<10	124.5
	12/13/2017	24	275
	6/20/2018	ND<10	124.5
	12/18/2018	ND<10	124.5
	6/10/2019	ND<10	124.5
	12/9/2019	ND<10	124.5

6/23/2020 ND<10 124.5  
 Rank Sum = 1644.5  
 Rank Mean = 137.042

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GWC-23A 12/8/2014 ND<10 124.5  
 6/23/2015 ND<10 124.5  
 12/9/2015 ND<10 124.5  
 6/15/2016 ND<10 124.5  
 12/7/2016 ND<10 124.5  
 6/15/2017 ND<10 124.5  
 12/12/2017 ND<10 124.5  
 6/19/2018 ND<10 124.5  
 12/19/2018 ND<10 124.5  
 6/13/2019 ND<10 124.5  
 12/12/2019 31.6 312  
 6/24/2020 ND<10 124.5

Rank Sum = 1681.5  
 Rank Mean = 140.125

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GWA-3 12/9/2014 ND<10 124.5  
 6/23/2015 ND<10 124.5  
 12/8/2015 43 332  
 6/14/2016 ND<10 124.5  
 12/9/2016 ND<10 124.5  
 6/15/2017 ND<10 124.5  
 12/12/2017 ND<10 124.5  
 6/19/2018 41 327  
 12/18/2018 ND<10 124.5  
 6/12/2019 ND<10 124.5  
 12/11/2019 71.5 353  
 6/23/2020 20.3 261

Rank Sum = 2269  
 Rank Mean = 189.083

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GWC-22 12/9/2014 ND<10 124.5  
 6/23/2015 ND<10 124.5  
 12/10/2015 26 286  
 6/16/2016 ND<10 124.5  
 12/7/2016 ND<10 124.5  
 6/15/2017 ND<10 124.5  
 12/12/2017 ND<10 124.5  
 6/20/2018 21 262  
 12/19/2018 ND<10 124.5  
 6/13/2019 ND<10 124.5  
 12/12/2019 ND<10 124.5  
 6/24/2020 ND<10 124.5

Rank Sum = 1793  
 Rank Mean = 149.417

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GWC-23 12/9/2014 ND<10 124.5  
 6/23/2015 ND<10 124.5  
 12/9/2015 ND<10 124.5  
 6/16/2016 ND<10 124.5  
 12/7/2016 ND<10 124.5  
 6/15/2017 ND<10 124.5  
 12/12/2017 ND<10 124.5  
 6/19/2018 ND<10 124.5

12/19/2018 ND<10 124.5  
 6/13/2019 ND<10 124.5  
 12/12/2019 ND<10 124.5  
 6/24/2020 ND<10 124.5

Rank Sum = 1494  
 Rank Mean = 124.5

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GWC-5 12/9/2014 ND<10 124.5  
 6/25/2015 ND<10 124.5  
 12/8/2015 ND<10 124.5  
 6/15/2016 ND<10 124.5  
 12/9/2016 ND<10 124.5  
 6/13/2017 20 251  
 12/13/2017 ND<10 124.5  
 6/21/2018 ND<10 124.5  
 12/19/2018 26 287  
 6/13/2019 ND<10 124.5  
 12/11/2019 38.3 323  
 6/24/2020 ND<10 124.5

Rank Sum = 1981.5  
 Rank Mean = 165.125

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GWC-7 12/9/2014 27 293  
 6/25/2015 ND<10 124.5  
 12/8/2015 27 294  
 6/16/2016 36 317  
 12/9/2016 ND<10 124.5  
 6/13/2017 20 252  
 12/13/2017 ND<10 124.5  
 6/20/2018 30 306  
 12/19/2018 110 360  
 6/13/2019 23 268  
 12/12/2019 42.2 331  
 6/25/2020 ND<10 124.5

Rank Sum = 2919  
 Rank Mean = 243.25

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GWC-10 12/10/2014 ND<10 124.5  
 6/23/2015 ND<10 124.5  
 12/8/2015 26 288  
 6/15/2016 ND<10 124.5  
 12/9/2016 23 269  
 6/16/2017 ND<10 124.5  
 12/13/2017 28 299  
 6/20/2018 41 328  
 12/18/2018 22 266  
 6/11/2019 24 276  
 12/13/2019 86.4 358  
 6/25/2020 27.9 298

Rank Sum = 2880  
 Rank Mean = 240

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GWC-10A 12/10/2014 20 253  
 6/23/2015 ND<10 124.5  
 12/8/2015 ND<10 124.5  
 6/15/2016 ND<10 124.5  
 12/9/2016 ND<10 124.5

6/16/2017	ND<10	124.5
12/13/2017	ND<10	124.5
6/20/2018	ND<10	124.5
12/18/2018	38	320
6/11/2019	ND<10	124.5
12/13/2019	31.2	311
6/25/2020	ND<10	124.5

Rank Sum = 2004.5  
Rank Mean = 167.042

GWC-11	12/10/2014	21	263
	6/23/2015	29	302
	12/8/2015	ND<10	124.5
	6/15/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/15/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/20/2018	26	289
	12/20/2018	ND<10	124.5
	6/13/2019	34	314
	12/13/2019	23.3	273
	6/25/2020	40	326

Rank Sum = 2514  
Rank Mean = 209.5

GWC-12	12/10/2014	20	254
	6/23/2015	ND<10	124.5
	12/8/2015	ND<10	124.5
	6/15/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/15/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/20/2018	ND<10	124.5
	12/20/2018	ND<10	124.5
	6/12/2019	ND<10	124.5
	12/10/2019	ND<10	124.5
	6/25/2020	ND<10	124.5

Rank Sum = 1623.5  
Rank Mean = 135.292

GWC-12A	12/10/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/8/2015	ND<10	124.5
	6/15/2016	ND<10	124.5
	12/8/2016	20	255
	6/15/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/20/2018	26	290
	12/20/2018	ND<10	124.5
	6/12/2019	ND<10	124.5
	12/10/2019	ND<10	124.5
	6/25/2020	ND<10	124.5

Rank Sum = 1790  
Rank Mean = 149.167

GWC-14A	12/10/2014	ND<10	124.5
	6/24/2015	ND<10	124.5

12/10/2015	20	256
6/16/2016	ND<10	124.5
12/8/2016	ND<10	124.5
6/13/2017	ND<10	124.5
12/13/2017	ND<10	124.5
6/21/2018	20	257
12/19/2018	ND<10	124.5
6/12/2019	ND<10	124.5
12/11/2019	ND<10	124.5
6/24/2020	ND<10	124.5

Rank Sum = 1758  
Rank Mean = 146.5

GWC-6	12/10/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/9/2015	ND<10	124.5
	6/15/2016	ND<10	124.5
	12/9/2016	ND<10	124.5
	6/13/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/21/2018	ND<10	124.5
	12/20/2018	ND<10	124.5
	6/13/2019	ND<10	124.5
	12/11/2019	ND<10	124.5
	6/25/2020	ND<10	124.5

Rank Sum = 1494  
Rank Mean = 124.5

GWC-16A	12/11/2014	ND<10	124.5
	6/24/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/17/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/15/2017	79	356
	12/14/2017	ND<10	124.5
	6/21/2018	44	334
	12/20/2018	ND<10	124.5
	6/13/2019	ND<10	124.5
	12/12/2019	ND<10	124.5
	6/23/2020	ND<10	124.5

Rank Sum = 1935  
Rank Mean = 161.25

GWC-14	12/11/2014	36	318
	6/24/2015	23	270
	12/10/2015	68	352
	6/15/2016	20	258
	6/21/2018	67	350
	6/12/2019	ND<10	124.5
	12/11/2019	27.7	296
	6/25/2020	25.3	284

Rank Sum = 2252.5  
Rank Mean = 281.563

GWC-15	12/11/2014	270	362
	6/24/2015	50	342
	12/9/2015	39	325

6/16/2016	55	345
12/8/2016	ND<10	124.5
6/14/2017	90	359
12/14/2017	60	347
6/20/2018	56	346
12/19/2018	ND<10	124.5
6/11/2019	ND<10	124.5
12/10/2019	ND<10	124.5
6/25/2020	ND<10	124.5

Rank Sum = 3048.5  
Rank Mean = 254.042

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GWC-17	12/11/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/8/2015	ND<10	124.5
	6/14/2016	ND<10	124.5
	6/15/2017	20	259
	12/13/2017	ND<10	124.5
	6/20/2018	ND<10	124.5
	12/20/2018	27	295
	6/13/2019	24	277
	12/11/2019	ND<10	124.5
	6/24/2020	ND<10	124.5

Rank Sum = 1827  
Rank Mean = 166.091

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GWC-18	12/11/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/14/2016	ND<10	124.5
	12/7/2016	49	341
	6/15/2017	21	264
	12/14/2017	29	303
	6/20/2018	ND<10	124.5
	12/19/2018	26	291
	6/12/2019	ND<10	124.5
	12/10/2019	38.7	324
	6/24/2020	ND<10	124.5

Rank Sum = 2394.5  
Rank Mean = 199.542

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GWC-19R	12/11/2014	ND<10	124.5
	6/23/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/16/2016	ND<10	124.5
	12/7/2016	ND<10	124.5
	6/15/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/20/2018	21	265
	12/19/2018	ND<10	124.5
	6/12/2019	ND<10	124.5
	12/10/2019	ND<10	124.5
	6/24/2020	ND<10	124.5

Rank Sum = 1634.5  
Rank Mean = 136.208

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GWC-8	12/11/2014	ND<10	124.5
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6/24/2015	ND<10	124.5
12/10/2015	ND<10	124.5
6/16/2016	ND<10	124.5
12/9/2016	26	292
12/13/2017	ND<10	124.5
6/21/2018	ND<10	124.5
6/13/2019	ND<10	124.5
12/12/2019	ND<10	124.5
6/24/2020	ND<10	124.5

Rank Sum = 1412.5  
Rank Mean = 141.25

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GWC-8A	12/11/2014	ND<10	124.5
	6/24/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/16/2016	ND<10	124.5
	12/9/2016	ND<10	124.5
	6/14/2017	ND<10	124.5
	12/13/2017	ND<10	124.5
	6/21/2018	34	315
	12/20/2018	42	330
	6/13/2019	ND<10	124.5
	12/12/2019	ND<10	124.5
	6/24/2020	ND<10	124.5

Rank Sum = 1890  
Rank Mean = 157.5

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GWC-13	12/12/2014	ND<10	124.5
	6/23/2015	45	336
	12/8/2015	ND<10	124.5
	6/16/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/15/2017	ND<10	124.5
	12/13/2017	ND<10	124.5
	6/20/2018	ND<10	124.5
	12/20/2018	ND<10	124.5
	6/13/2019	ND<10	124.5
	12/12/2019	23.6	274
	6/24/2020	ND<10	124.5

Rank Sum = 1855  
Rank Mean = 154.583

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GWC-2	12/12/2014	25	280
	6/25/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/15/2016	ND<10	124.5
	12/9/2016	ND<10	124.5
	6/16/2017	ND<10	124.5
	12/14/2017	ND<10	124.5
	6/21/2018	ND<10	124.5
	12/20/2018	23	271
	6/13/2019	28	300
	6/23/2020	27.8	297

Rank Sum = 2019.5  
Rank Mean = 183.591

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GWC-3A	12/12/2014	20	260
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6/25/2015	ND<10	124.5
12/10/2015	ND<10	124.5
6/15/2016	ND<10	124.5
12/9/2016	ND<10	124.5
6/16/2017	34	316
12/13/2017	ND<10	124.5
6/21/2018	ND<10	124.5
12/18/2018	ND<10	124.5
6/12/2019	24	278
12/11/2019	28.8	301
6/25/2020	33.1	313

Rank Sum = 2339.5  
Rank Mean = 194.958

GWC-4	12/12/2014	ND<10	124.5
	6/25/2015	ND<10	124.5
	12/10/2015	62	349
	6/17/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/21/2018	25	281
	6/24/2020	ND<10	124.5

Rank Sum = 1252.5  
Rank Mean = 178.929

GWC-4A	12/12/2014	ND<10	124.5
	6/25/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/17/2016	ND<10	124.5
	12/8/2016	ND<10	124.5
	6/14/2017	ND<10	124.5
	12/13/2017	25	282
	6/21/2018	ND<10	124.5
	12/18/2018	ND<10	124.5
	6/12/2019	23	272
	12/12/2019	50	343
	6/24/2020	ND<10	124.5

Rank Sum = 2017.5  
Rank Mean = 168.125

GWC-9	12/12/2014	86	357
	6/23/2015	67	351
	12/9/2015	38	321
	6/15/2016	54	344
	12/9/2016	140	361
	6/16/2017	73	354
	12/14/2017	46	339
	6/21/2018	45	337
	12/19/2018	38	322
	6/13/2019	60	348
	12/13/2019	78	355
	6/25/2020	45.9	338

Rank Sum = 4127  
Rank Mean = 343.917

GWC-24	6/23/2015	ND<10	124.5
	6/14/2016	ND<10	124.5
	6/15/2017	ND<10	124.5

6/20/2018	ND<10	124.5
6/12/2019	ND<10	124.5
12/10/2019	24	279
6/25/2020	ND<10	124.5

Rank Sum = 1026  
Rank Mean = 146.571

GWC-3	6/25/2015	ND<10	124.5
	12/10/2015	ND<10	124.5
	6/15/2016	25	283
	6/21/2018	ND<10	124.5
	12/18/2018	ND<10	124.5
	6/12/2019	ND<10	124.5
	12/11/2019	ND<10	124.5
	6/25/2020	ND<10	124.5

Rank Sum = 1154.5  
Rank Mean = 144.313

**Calculation Results:**

Kruskal-Wallis H Statistic = 83.4463

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 122.992

95% Confidence comparison value is 43.773 at 30 degrees of freedom

**83.4463 > 43.773 indicating a significant group difference at 5% significance level**

**122.992 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties**

**Individual Well Comparisons at 1% Significance Level per Comparison**

1% Z score is 2.32634

Mean background rank is 236.271

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	137.042	-99.2292	86.0688
GWC-23A	140.125	-96.1458	86.0688
GWA-3	189.083	-47.1875	86.0688
GWC-22	149.417	-86.8542	86.0688
GWC-23	124.5	-111.771	86.0688
GWC-5	165.125	-71.1458	86.0688
GWC-7	243.25	6.97917	86.0688
GWC-10	240	3.72917	86.0688
GWC-10A	167.042	-69.2292	86.0688
GWC-11	209.5	-26.7708	86.0688
GWC-12	135.292	-100.979	86.0688
GWC-12A	149.167	-87.1042	86.0688
GWC-14A	146.5	-89.7708	86.0688
GWC-6	124.5	-111.771	86.0688
GWC-16A	161.25	-75.0208	86.0688
GWC-14	281.563	45.2917	99.3836
GWC-15	254.042	17.7708	86.0688
GWC-17	166.091	-70.1799	88.6385
GWC-18	199.542	-36.7292	86.0688
GWC-19R	136.208	-100.063	86.0688
GWC-8	141.25	-95.0208	91.6272
GWC-8A	157.5	-78.7708	86.0688
GWC-13	154.583	-81.6875	86.0688
GWC-2	183.591	-52.6799	88.6385
GWC-3A	194.958	-41.3125	86.0688
GWC-4	178.929	-57.3423	104.572



GWC-4A	168.125	-68.1458	86.0688
<b>GWC-9</b>	<b>343.917</b>	<b>107.646</b>	<b>86.0688</b>
GWC-24	146.571	-89.6994	104.572
GWC-3	144.313	-91.9583	99.3836

**Individual Well Comparisons at Groupwise 5% Significance Level  
(0.166667% Significance Level per comparison)**

0.166667% Z score is 3.09024

Mean background rank is 236.271

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	137.042	-99.2292	114.331
GWC-23A	140.125	-96.1458	114.331
GWA-3	189.083	-47.1875	114.331
GWC-22	149.417	-86.8542	114.331
GWC-23	124.5	-111.771	114.331
GWC-5	165.125	-71.1458	114.331
GWC-7	243.25	6.97917	114.331
GWC-10	240	3.72917	114.331
GWC-10A	167.042	-69.2292	114.331
GWC-11	209.5	-26.7708	114.331
GWC-12	135.292	-100.979	114.331
GWC-12A	149.167	-87.1042	114.331
GWC-14A	146.5	-89.7708	114.331
GWC-6	124.5	-111.771	114.331
GWC-16A	161.25	-75.0208	114.331
GWC-14	281.563	45.2917	132.018
GWC-15	254.042	17.7708	114.331
GWC-17	166.091	-70.1799	117.745
GWC-18	199.542	-36.7292	114.331
GWC-19R	136.208	-100.063	114.331
GWC-8	141.25	-95.0208	121.715
GWC-8A	157.5	-78.7708	114.331
GWC-13	154.583	-81.6875	114.331
GWC-2	183.591	-52.6799	117.745
GWC-3A	194.958	-41.3125	114.331
GWC-4	178.929	-57.3423	138.911
GWC-4A	168.125	-68.1458	114.331
GWC-9	343.917	107.646	114.331
GWC-24	146.571	-89.6994	138.911
GWC-3	144.313	-91.9583	132.018

**STATISTICAL ANALYSIS:  
Non-Parametric Tolerance Interval Test**

Forsyth County - Hightower Road MSWLF - Phase I  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-1A	FALSE	96%
1,1-Dichloroethane	PH1-GWB-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-3	<b>TRUE</b>	96%
1,1-Dichloroethane	PH1-GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	<b>TRUE</b>	96%
1,1-Dichloroethane	PH1-GWC-4	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWA-2	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWC-3	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWC-3A	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-2	<b>TRUE</b>	96%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-2	FALSE	96%
Tetrachloroethene	PH1-GWC-3	<b>TRUE</b>	96%
Tetrachloroethene	PH1-GWC-3A	FALSE	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-2	<b>TRUE</b>	96%
Tetrachloroethene	PH1-GWC-4	FALSE	96%
Total Barium	PH1-GWA-1A	FALSE	96%
Total Barium	PH1-GWB-1	<b>TRUE</b>	96%
Total Barium	PH1-GWA-1	FALSE	96%
Total Barium	PH1-GWA-2	<b>TRUE</b>	96%
Total Barium	PH1-GWC-2	FALSE	96%
Total Barium	PH1-GWC-3	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	PH1-GWC-3A	FALSE	96%
Total Barium	GWC-1	<b>TRUE</b>	96%
Total Barium	PH1-GWB-2	FALSE	96%
Total Barium	PH1-GWC-1	<b>TRUE</b>	96%
Total Barium	PH1-GWC-4	FALSE	96%
Total Chromium	PH1-GWA-1A	FALSE	96%
Total Chromium	PH1-GWB-1	FALSE	96%
Total Chromium	PH1-GWA-1	FALSE	96%
Total Chromium	PH1-GWA-2	FALSE	96%
Total Chromium	PH1-GWC-2	<i>PASSED KW</i>	96%
Total Chromium	PH1-GWC-3	FALSE	96%
Total Chromium	PH1-GWC-3A	FALSE	96%
Total Chromium	GWC-1	FALSE	96%
Total Chromium	PH1-GWB-2	FALSE	96%
Total Chromium	PH1-GWC-1	FALSE	96%
Total Chromium	PH1-GWC-4	FALSE	96%
Total Cobalt	PH1-GWA-1A	FALSE	96%
Total Cobalt	PH1-GWB-1	FALSE	96%
Total Cobalt	PH1-GWA-1	<b>TRUE</b>	96%
Total Cobalt	PH1-GWA-2	FALSE	96%
Total Cobalt	PH1-GWC-2	FALSE	96%
Total Cobalt	PH1-GWC-3	FALSE	96%
Total Cobalt	PH1-GWC-3A	FALSE	96%
Total Cobalt	GWC-1	FALSE	96%
Total Cobalt	PH1-GWB-2	FALSE	96%
Total Cobalt	PH1-GWC-1	FALSE	96%
Total Cobalt	PH1-GWC-4	FALSE	96%
Total Zinc	PH1-GWA-1A	FALSE	96%
Total Zinc	PH1-GWB-1	FALSE	96%
Total Zinc	PH1-GWA-1	FALSE	96%
Total Zinc	PH1-GWA-2	FALSE	96%
Total Zinc	PH1-GWC-2	FALSE	96%
Total Zinc	PH1-GWC-3	FALSE	96%
Total Zinc	PH1-GWC-3A	FALSE	96%
Total Zinc	GWC-1	<i>PASSED KW</i>	96%
Total Zinc	PH1-GWB-2	FALSE	96%
Total Zinc	PH1-GWC-1	FALSE	96%
Total Zinc	PH1-GWC-4	FALSE	96%
Trichloroethene	PH1-GWA-1A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	PH1-GWA-1	FALSE	96%
Trichloroethene	PH1-GWA-2	<b>TRUE</b>	96%
Trichloroethene	PH1-GWC-3	<b>TRUE</b>	96%
Trichloroethene	PH1-GWC-3A	<b>TRUE</b>	96%
Trichloroethene	GWC-1	FALSE	96%
Trichloroethene	PH1-GWB-2	FALSE	96%
Trichloroethene	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWC-2	<i>PASSED KW</i>	96%
Trichloroethene	PH1-GWC-4	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

1,1-Dichloroethane

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 77.4194%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
<hr/>			
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE
<hr/>			
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE
PH1-GWA-1	6/22/2020	ND<2	FALSE
<hr/>			
PH1-GWA-2	12/10/2014	2	FALSE
PH1-GWA-2	6/22/2015	ND<2	FALSE

1,1-Dichloroethane

PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	ND<2	FALSE
PH1-GWA-2	6/15/2017	ND<2	FALSE
PH1-GWA-2	12/13/2017	ND<2	FALSE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	ND<2	FALSE
PH1-GWA-2	6/24/2020	ND<2	FALSE

PH1-GWC-3	12/10/2014	2.3	TRUE
PH1-GWC-3	6/24/2015	2.4	TRUE
PH1-GWC-3	12/9/2015	2.7	TRUE
PH1-GWC-3	6/16/2016	3.3	TRUE
PH1-GWC-3	12/8/2016	3.6	TRUE
PH1-GWC-3	6/13/2017	2.7	TRUE
PH1-GWC-3	12/12/2017	3.6	TRUE
PH1-GWC-3	6/19/2018	3.2	TRUE
PH1-GWC-3	12/18/2018	2.7	TRUE
PH1-GWC-3	6/10/2019	3.3	TRUE
PH1-GWC-3	12/9/2019	4	TRUE
PH1-GWC-3	6/22/2020	2.9	TRUE

PH1-GWC-3A	12/10/2014	3	TRUE
PH1-GWC-3A	6/24/2015	2.4	TRUE
PH1-GWC-3A	12/9/2015	2.6	TRUE
PH1-GWC-3A	6/16/2016	2.7	TRUE
PH1-GWC-3A	12/8/2016	2.8	TRUE
PH1-GWC-3A	6/13/2017	2	FALSE
PH1-GWC-3A	12/12/2017	2.6	TRUE
PH1-GWC-3A	6/19/2018	2.6	TRUE
PH1-GWC-3A	12/18/2018	2.3	TRUE
PH1-GWC-3A	6/10/2019	2.5	TRUE
PH1-GWC-3A	12/9/2019	3.1	TRUE
PH1-GWC-3A	6/26/2020	ND<2	FALSE

GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE

PH1-GWB-2	12/11/2014	ND<2	FALSE
PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE

1,1-Dichloroethane

PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE

PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE

PH1-GWC-2	12/11/2014	3.5	TRUE
PH1-GWC-2	6/23/2015	3	TRUE
PH1-GWC-2	12/8/2015	3.7	TRUE
PH1-GWC-2	6/14/2016	3.1	TRUE
PH1-GWC-2	12/7/2016	3.2	TRUE
PH1-GWC-2	6/13/2017	3	TRUE
PH1-GWC-2	12/13/2017	3.4	TRUE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2.8	TRUE
PH1-GWC-2	6/10/2019	3	TRUE
PH1-GWC-2	12/10/2019	3.7	TRUE
PH1-GWC-2	6/22/2020	3.1	TRUE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE

cis-1,2-Dichloroethene

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 60.6452%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE

PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE

PH1-GWA-1	12/10/2014	9	TRUE
PH1-GWA-1	6/23/2015	7.5	TRUE
PH1-GWA-1	12/8/2015	8	TRUE
PH1-GWA-1	6/14/2016	8.3	TRUE
PH1-GWA-1	12/7/2016	5	TRUE
PH1-GWA-1	6/13/2017	5.2	TRUE
PH1-GWA-1	12/13/2017	3.5	TRUE
PH1-GWA-1	6/19/2018	3.1	TRUE
PH1-GWA-1	12/18/2018	2.4	TRUE
PH1-GWA-1	6/10/2019	5.2	TRUE
PH1-GWA-1	12/9/2019	3.7	TRUE
PH1-GWA-1	6/22/2020	4	TRUE

PH1-GWA-2	12/10/2014	73	TRUE
PH1-GWA-2	6/22/2015	53	TRUE

cis-1,2-Dichloroethene

PH1-GWA-2	12/8/2015	21	TRUE
PH1-GWA-2	6/13/2016	32	TRUE
PH1-GWA-2	12/7/2016	70	TRUE
PH1-GWA-2	6/15/2017	49	TRUE
PH1-GWA-2	12/13/2017	64	TRUE
PH1-GWA-2	6/18/2018	46	TRUE
PH1-GWA-2	12/18/2018	55	TRUE
PH1-GWA-2	6/11/2019	26	TRUE
PH1-GWA-2	12/9/2019	120	TRUE
PH1-GWA-2	6/24/2020	42	TRUE

PH1-GWC-3	12/10/2014	9	TRUE
PH1-GWC-3	6/24/2015	11	TRUE
PH1-GWC-3	12/9/2015	13	TRUE
PH1-GWC-3	6/16/2016	15	TRUE
PH1-GWC-3	12/8/2016	15	TRUE
PH1-GWC-3	6/13/2017	14	TRUE
PH1-GWC-3	12/12/2017	15	TRUE
PH1-GWC-3	6/19/2018	15	TRUE
PH1-GWC-3	12/18/2018	15	TRUE
PH1-GWC-3	6/10/2019	19	TRUE
PH1-GWC-3	12/9/2019	27	TRUE
PH1-GWC-3	6/22/2020	20	TRUE

PH1-GWC-3A	12/10/2014	11	TRUE
PH1-GWC-3A	6/24/2015	9.3	TRUE
PH1-GWC-3A	12/9/2015	10	TRUE
PH1-GWC-3A	6/16/2016	9.9	TRUE
PH1-GWC-3A	12/8/2016	11	TRUE
PH1-GWC-3A	6/13/2017	11	TRUE
PH1-GWC-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	12	TRUE
PH1-GWC-3A	12/18/2018	9.2	TRUE
PH1-GWC-3A	6/10/2019	11	TRUE
PH1-GWC-3A	12/9/2019	16	TRUE
PH1-GWC-3A	6/26/2020	14	TRUE

GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE

PH1-GWB-2	12/11/2014	ND<2	FALSE
PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE

cis-1,2-Dichloroethene

PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	2.6	TRUE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE

PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE

PH1-GWC-2	12/11/2014	2	FALSE
PH1-GWC-2	6/23/2015	2	FALSE
PH1-GWC-2	12/8/2015	2.5	TRUE
PH1-GWC-2	6/14/2016	2.2	TRUE
PH1-GWC-2	12/7/2016	2.3	TRUE
PH1-GWC-2	6/13/2017	4.4	TRUE
PH1-GWC-2	12/13/2017	3.1	TRUE
PH1-GWC-2	6/19/2018	2.2	TRUE
PH1-GWC-2	12/18/2018	3.3	TRUE
PH1-GWC-2	6/10/2019	5.1	TRUE
PH1-GWC-2	12/10/2019	5.7	TRUE
PH1-GWC-2	6/22/2020	6	TRUE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE



Tetrachloroethene

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 73.5484%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE
<hr/>			
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE
<hr/>			
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	2.1	TRUE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1	12/9/2019	ND<2	FALSE
PH1-GWA-1	6/22/2020	ND<2	FALSE
<hr/>			
PH1-GWA-2	12/10/2014	4.8	TRUE
PH1-GWA-2	6/22/2015	3.5	TRUE

Tetrachloroethene

PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	3.7	TRUE
PH1-GWA-2	6/15/2017	2.1	TRUE
PH1-GWA-2	12/13/2017	2.3	TRUE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWA-2	12/9/2019	2.4	TRUE
PH1-GWA-2	6/24/2020	ND<2	FALSE

PH1-GWC-3	12/10/2014	8.5	TRUE
PH1-GWC-3	6/24/2015	8.7	TRUE
PH1-GWC-3	12/9/2015	12	TRUE
PH1-GWC-3	6/16/2016	8.4	TRUE
PH1-GWC-3	12/8/2016	12	TRUE
PH1-GWC-3	6/13/2017	11	TRUE
PH1-GWC-3	12/12/2017	13	TRUE
PH1-GWC-3	6/19/2018	11	TRUE
PH1-GWC-3	12/18/2018	10	TRUE
PH1-GWC-3	6/10/2019	11	TRUE
PH1-GWC-3	12/9/2019	13	TRUE
PH1-GWC-3	6/22/2020	9	TRUE

PH1-GWC-3A	12/10/2014	11	TRUE
PH1-GWC-3A	6/24/2015	8.5	TRUE
PH1-GWC-3A	12/9/2015	10	TRUE
PH1-GWC-3A	6/16/2016	6.7	TRUE
PH1-GWC-3A	12/8/2016	8.6	TRUE
PH1-GWC-3A	6/13/2017	8.9	TRUE
PH1-GWC-3A	12/12/2017	10	TRUE
PH1-GWC-3A	6/19/2018	11	TRUE
PH1-GWC-3A	12/18/2018	8.7	TRUE
PH1-GWC-3A	6/10/2019	8.8	TRUE
PH1-GWC-3A	12/9/2019	7.4	TRUE
PH1-GWC-3A	6/26/2020	ND<2	FALSE

GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE

PH1-GWB-2	12/11/2014	ND<2	FALSE
PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE

Tetrachloroethene

PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE

PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE

PH1-GWC-2	12/11/2014	4.9	TRUE
PH1-GWC-2	6/23/2015	4.7	TRUE
PH1-GWC-2	12/8/2015	6.3	TRUE
PH1-GWC-2	6/14/2016	4	TRUE
PH1-GWC-2	12/7/2016	3.9	TRUE
PH1-GWC-2	6/13/2017	6.7	TRUE
PH1-GWC-2	12/13/2017	5.1	TRUE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	5.1	TRUE
PH1-GWC-2	6/10/2019	4.2	TRUE
PH1-GWC-2	12/10/2019	6.3	TRUE
PH1-GWC-2	6/22/2020	4.6	TRUE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE

Total Barium

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 26.4516%

Background measurements (n) = 24

Maximum Background Concentration = 37

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	27	FALSE
PH1-GWA-1A	6/23/2015	29	FALSE
PH1-GWA-1A	12/9/2015	30	FALSE
PH1-GWA-1A	6/14/2016	37	FALSE
PH1-GWA-1A	12/7/2016	21	FALSE
PH1-GWA-1A	6/12/2017	24	FALSE
PH1-GWA-1A	12/13/2017	27	FALSE
PH1-GWA-1A	6/20/2018	25	FALSE
PH1-GWA-1A	12/19/2018	27	FALSE
PH1-GWA-1A	6/11/2019	24	FALSE
PH1-GWA-1A	12/10/2019	23.4	FALSE
PH1-GWA-1A	6/22/2020	21.7	FALSE

PH1-GWB-1	12/9/2014	72	TRUE
PH1-GWB-1	6/23/2015	78	TRUE
PH1-GWB-1	12/8/2015	75	TRUE
PH1-GWB-1	6/14/2016	84	TRUE
PH1-GWB-1	12/8/2016	75	TRUE
PH1-GWB-1	6/16/2017	52	TRUE
PH1-GWB-1	12/13/2017	54	TRUE
PH1-GWB-1	6/19/2018	62	TRUE
PH1-GWB-1	12/18/2018	53	TRUE
PH1-GWB-1	6/12/2019	82	TRUE
PH1-GWB-1	12/11/2019	67	TRUE
PH1-GWB-1	6/25/2020	79.3	TRUE

PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	21	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	21	FALSE
PH1-GWA-1	12/14/2017	20	FALSE
PH1-GWA-1	6/20/2018	34	FALSE
PH1-GWA-1	12/19/2018	24	FALSE
PH1-GWA-1	6/11/2019	24	FALSE
PH1-GWA-1	12/10/2019	20.3	FALSE
PH1-GWA-1	6/23/2020	27.7	FALSE

PH1-GWA-2	12/11/2014	88	TRUE
PH1-GWA-2	6/23/2015	82	TRUE

Total Barium

PH1-GWA-2	12/9/2015	74	TRUE
PH1-GWA-2	6/14/2016	85	TRUE
PH1-GWA-2	12/8/2016	110	TRUE
PH1-GWA-2	6/16/2017	80	TRUE
PH1-GWA-2	12/14/2017	80	TRUE
PH1-GWA-2	6/19/2018	61	TRUE
PH1-GWA-2	12/19/2018	81	TRUE
PH1-GWA-2	6/12/2019	84	TRUE
PH1-GWA-2	12/10/2019	84.2	TRUE
PH1-GWA-2	6/25/2020	64.6	TRUE

PH1-GWC-2	12/11/2014	ND<20	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	51	TRUE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	26	FALSE
PH1-GWC-2	6/10/2019	39	TRUE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-2	6/22/2020	33.6	FALSE

PH1-GWC-3	12/11/2014	38	TRUE
PH1-GWC-3	6/25/2015	25	FALSE
PH1-GWC-3	12/10/2015	25	FALSE
PH1-GWC-3	6/17/2016	24	FALSE
PH1-GWC-3	12/9/2016	28	FALSE
PH1-GWC-3	6/14/2017	26	FALSE
PH1-GWC-3	12/13/2017	27	FALSE
PH1-GWC-3	6/20/2018	23	FALSE
PH1-GWC-3	12/19/2018	27	FALSE
PH1-GWC-3	6/11/2019	30	FALSE
PH1-GWC-3	12/10/2019	24.7	FALSE
PH1-GWC-3	6/23/2020	23.6	FALSE

PH1-GWC-3A	12/11/2014	24	FALSE
PH1-GWC-3A	6/25/2015	28	FALSE
PH1-GWC-3A	12/10/2015	26	FALSE
PH1-GWC-3A	6/17/2016	29	FALSE
PH1-GWC-3A	12/9/2016	29	FALSE
PH1-GWC-3A	6/14/2017	29	FALSE
PH1-GWC-3A	12/13/2017	27	FALSE
PH1-GWC-3A	6/28/2018	26	FALSE
PH1-GWC-3A	12/19/2018	24	FALSE
PH1-GWC-3A	6/11/2019	30	FALSE
PH1-GWC-3A	12/10/2019	24.9	FALSE
PH1-GWC-3A	6/23/2020	23.9	FALSE

GWC-1	12/12/2014	130	TRUE
GWC-1	6/25/2015	99	TRUE
GWC-1	12/10/2015	89	TRUE

Total Barium

GWC-1	6/15/2016	92	TRUE
GWC-1	12/9/2016	100	TRUE
GWC-1	6/14/2017	92	TRUE
GWC-1	12/14/2017	88	TRUE
GWC-1	6/20/2018	94	TRUE
GWC-1	12/18/2018	150	TRUE
GWC-1	6/13/2019	93	TRUE
GWC-1	12/11/2019	85.2	TRUE
GWC-1	6/23/2020	95.3	TRUE

PH1-GWB-2	12/12/2014	ND<20	FALSE
PH1-GWB-2	6/25/2015	ND<20	FALSE
PH1-GWB-2	12/9/2015	29	FALSE
PH1-GWB-2	6/14/2016	28	FALSE
PH1-GWB-2	12/9/2016	26	FALSE
PH1-GWB-2	6/16/2017	ND<20	FALSE
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	22	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWB-2	12/13/2019	ND<20	FALSE
PH1-GWB-2	6/25/2020	ND<20	FALSE

PH1-GWC-1	12/12/2014	33	FALSE
PH1-GWC-1	6/25/2015	58	TRUE
PH1-GWC-1	12/9/2015	41	TRUE
PH1-GWC-1	6/16/2016	54	TRUE
PH1-GWC-1	12/9/2016	70	TRUE
PH1-GWC-1	6/16/2017	40	TRUE
PH1-GWC-1	12/12/2017	38	TRUE
PH1-GWC-1	6/20/2018	42	TRUE
PH1-GWC-1	12/20/2018	47	TRUE
PH1-GWC-1	6/13/2019	50	TRUE
PH1-GWC-1	12/12/2019	43.7	TRUE
PH1-GWC-1	6/23/2020	42.8	TRUE

PH1-GWC-4	12/12/2014	51	TRUE
PH1-GWC-4	6/25/2015	34	FALSE
PH1-GWC-4	12/8/2015	36	FALSE
PH1-GWC-4	6/14/2016	41	TRUE
PH1-GWC-4	12/9/2016	80	TRUE
PH1-GWC-4	6/16/2017	42	TRUE
PH1-GWC-4	12/12/2017	54	TRUE
PH1-GWC-4	6/20/2018	34	FALSE
PH1-GWC-4	12/20/2018	310	TRUE
PH1-GWC-4	6/13/2019	32	FALSE
PH1-GWC-4	6/23/2020	25.2	FALSE

Total Chromium

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.8387%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<10	FALSE
PH1-GWA-1A	6/23/2015	ND<10	FALSE
PH1-GWA-1A	12/9/2015	10	FALSE
<b>PH1-GWA-1A</b>	<b>6/14/2016</b>	<b>28</b>	<b>TRUE</b>
PH1-GWA-1A	12/7/2016	ND<10	FALSE
PH1-GWA-1A	6/12/2017	ND<10	FALSE
PH1-GWA-1A	12/13/2017	ND<10	FALSE
PH1-GWA-1A	6/20/2018	ND<10	FALSE
PH1-GWA-1A	12/19/2018	ND<10	FALSE
<b>PH1-GWA-1A</b>	<b>6/11/2019</b>	<b>11</b>	<b>TRUE</b>
PH1-GWA-1A	12/10/2019	ND<10	FALSE
PH1-GWA-1A	6/22/2020	ND<10	FALSE

PH1-GWB-1	12/9/2014	ND<10	FALSE
PH1-GWB-1	6/23/2015	ND<10	FALSE
PH1-GWB-1	12/8/2015	ND<10	FALSE
PH1-GWB-1	6/14/2016	ND<10	FALSE
PH1-GWB-1	12/8/2016	ND<10	FALSE
PH1-GWB-1	6/16/2017	ND<10	FALSE
PH1-GWB-1	12/13/2017	ND<10	FALSE
PH1-GWB-1	6/19/2018	ND<10	FALSE
PH1-GWB-1	12/18/2018	ND<10	FALSE
PH1-GWB-1	6/12/2019	ND<10	FALSE
PH1-GWB-1	12/11/2019	ND<10	FALSE
PH1-GWB-1	6/25/2020	ND<10	FALSE

PH1-GWA-1	12/11/2014	ND<10	FALSE
PH1-GWA-1	6/24/2015	ND<10	FALSE
PH1-GWA-1	12/9/2015	ND<10	FALSE
PH1-GWA-1	6/15/2016	ND<10	FALSE
PH1-GWA-1	12/8/2016	ND<10	FALSE
PH1-GWA-1	6/14/2017	ND<10	FALSE
PH1-GWA-1	12/14/2017	ND<10	FALSE
PH1-GWA-1	6/20/2018	ND<10	FALSE
PH1-GWA-1	12/19/2018	ND<10	FALSE
PH1-GWA-1	6/11/2019	ND<10	FALSE
PH1-GWA-1	12/10/2019	ND<10	FALSE
PH1-GWA-1	6/23/2020	ND<10	FALSE

<b>PH1-GWA-2</b>	<b>12/11/2014</b>	<b>74</b>	<b>TRUE</b>
PH1-GWA-2	6/23/2015	ND<10	FALSE

Total Chromium

PH1-GWA-2	12/9/2015	ND<10	FALSE
PH1-GWA-2	6/14/2016	ND<10	FALSE
PH1-GWA-2	12/8/2016	ND<10	FALSE
PH1-GWA-2	6/16/2017	ND<10	FALSE
PH1-GWA-2	12/14/2017	ND<10	FALSE
PH1-GWA-2	6/19/2018	ND<10	FALSE
PH1-GWA-2	12/19/2018	ND<10	FALSE
PH1-GWA-2	6/12/2019	ND<10	FALSE
PH1-GWA-2	12/10/2019	ND<10	FALSE
PH1-GWA-2	6/25/2020	ND<10	FALSE

PH1-GWC-2	12/11/2014	ND<10	FALSE
PH1-GWC-2	6/23/2015	ND<10	FALSE
PH1-GWC-2	12/8/2015	ND<10	FALSE
PH1-GWC-2	6/14/2016	ND<10	FALSE
PH1-GWC-2	12/7/2016	ND<10	FALSE
PH1-GWC-2	6/14/2017	ND<10	FALSE
PH1-GWC-2	12/13/2017	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/19/2018</b>	<b>12</b>	<b>TRUE</b>
PH1-GWC-2	12/18/2018	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/10/2019</b>	<b>69</b>	<b>TRUE</b>
PH1-GWC-2	12/10/2019	ND<10	FALSE
<b>PH1-GWC-2</b>	<b>6/22/2020</b>	<b>27.2</b>	<b>TRUE</b>

PH1-GWC-3	12/11/2014	ND<10	FALSE
PH1-GWC-3	6/25/2015	ND<10	FALSE
PH1-GWC-3	12/10/2015	ND<10	FALSE
PH1-GWC-3	6/17/2016	ND<10	FALSE
PH1-GWC-3	12/9/2016	ND<10	FALSE
PH1-GWC-3	6/14/2017	ND<10	FALSE
PH1-GWC-3	12/13/2017	ND<10	FALSE
PH1-GWC-3	6/20/2018	ND<10	FALSE
PH1-GWC-3	12/19/2018	ND<10	FALSE
PH1-GWC-3	6/11/2019	ND<10	FALSE
PH1-GWC-3	12/10/2019	ND<10	FALSE
PH1-GWC-3	6/23/2020	ND<10	FALSE

PH1-GWC-3A	12/11/2014	ND<10	FALSE
PH1-GWC-3A	6/25/2015	ND<10	FALSE
PH1-GWC-3A	12/10/2015	ND<10	FALSE
PH1-GWC-3A	6/17/2016	ND<10	FALSE
PH1-GWC-3A	12/9/2016	ND<10	FALSE
PH1-GWC-3A	6/14/2017	ND<10	FALSE
PH1-GWC-3A	12/13/2017	ND<10	FALSE
PH1-GWC-3A	6/28/2018	ND<10	FALSE
PH1-GWC-3A	12/19/2018	ND<10	FALSE
PH1-GWC-3A	6/11/2019	ND<10	FALSE
PH1-GWC-3A	12/10/2019	ND<10	FALSE
PH1-GWC-3A	6/23/2020	ND<10	FALSE

GWC-1	12/12/2014	ND<10	FALSE
GWC-1	6/25/2015	ND<10	FALSE
GWC-1	12/10/2015	ND<10	FALSE

Total Chromium

GWC-1	6/15/2016	ND<10	FALSE
GWC-1	12/9/2016	ND<10	FALSE
GWC-1	6/14/2017	ND<10	FALSE
GWC-1	12/14/2017	ND<10	FALSE
GWC-1	6/20/2018	ND<10	FALSE
GWC-1	12/18/2018	ND<10	FALSE
GWC-1	6/13/2019	ND<10	FALSE
GWC-1	12/11/2019	ND<10	FALSE
GWC-1	6/23/2020	ND<10	FALSE

PH1-GWB-2	12/12/2014	ND<10	FALSE
PH1-GWB-2	6/25/2015	ND<10	FALSE
PH1-GWB-2	12/9/2015	ND<10	FALSE
PH1-GWB-2	6/14/2016	ND<10	FALSE
PH1-GWB-2	12/9/2016	ND<10	FALSE
PH1-GWB-2	6/16/2017	ND<10	FALSE
PH1-GWB-2	12/12/2017	ND<10	FALSE
PH1-GWB-2	6/20/2018	ND<10	FALSE
PH1-GWB-2	12/18/2018	ND<10	FALSE
PH1-GWB-2	6/13/2019	ND<10	FALSE
PH1-GWB-2	12/13/2019	ND<10	FALSE
PH1-GWB-2	6/25/2020	ND<10	FALSE

PH1-GWC-1	12/12/2014	ND<10	FALSE
PH1-GWC-1	6/25/2015	ND<10	FALSE
PH1-GWC-1	12/9/2015	ND<10	FALSE
PH1-GWC-1	6/16/2016	ND<10	FALSE
PH1-GWC-1	12/9/2016	ND<10	FALSE
PH1-GWC-1	6/16/2017	ND<10	FALSE
PH1-GWC-1	12/12/2017	ND<10	FALSE
PH1-GWC-1	6/20/2018	ND<10	FALSE
PH1-GWC-1	12/20/2018	ND<10	FALSE
PH1-GWC-1	6/13/2019	ND<10	FALSE
PH1-GWC-1	12/12/2019	ND<10	FALSE
PH1-GWC-1	6/23/2020	ND<10	FALSE

PH1-GWC-4	12/12/2014	ND<10	FALSE
PH1-GWC-4	6/25/2015	ND<10	FALSE
PH1-GWC-4	12/8/2015	ND<10	FALSE
PH1-GWC-4	6/14/2016	ND<10	FALSE
PH1-GWC-4	12/9/2016	ND<10	FALSE
PH1-GWC-4	6/16/2017	ND<10	FALSE
PH1-GWC-4	12/12/2017	ND<10	FALSE
PH1-GWC-4	6/20/2018	ND<10	FALSE
<b>PH1-GWC-4</b>	<b>12/20/2018</b>	<b>49</b>	<b>TRUE</b>
PH1-GWC-4	6/13/2019	ND<10	FALSE
PH1-GWC-4	6/23/2020	ND<10	FALSE

Total Cobalt

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.2581%

Background measurements (n) = 24

Maximum Background Concentration = 40

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<40	FALSE
PH1-GWA-1A	6/23/2015	ND<40	FALSE
PH1-GWA-1A	12/9/2015	ND<40	FALSE
PH1-GWA-1A	6/14/2016	ND<40	FALSE
PH1-GWA-1A	12/7/2016	ND<40	FALSE
PH1-GWA-1A	6/12/2017	ND<40	FALSE
PH1-GWA-1A	12/13/2017	ND<40	FALSE
PH1-GWA-1A	6/20/2018	ND<40	FALSE
PH1-GWA-1A	12/19/2018	ND<40	FALSE
PH1-GWA-1A	6/11/2019	ND<40	FALSE
PH1-GWA-1A	12/10/2019	ND<40	FALSE
PH1-GWA-1A	6/22/2020	ND<40	FALSE

PH1-GWB-1	12/9/2014	ND<40	FALSE
PH1-GWB-1	6/23/2015	ND<40	FALSE
PH1-GWB-1	12/8/2015	ND<40	FALSE
PH1-GWB-1	6/14/2016	ND<40	FALSE
PH1-GWB-1	12/8/2016	ND<40	FALSE
PH1-GWB-1	6/16/2017	ND<40	FALSE
PH1-GWB-1	12/13/2017	ND<40	FALSE
PH1-GWB-1	6/19/2018	ND<40	FALSE
PH1-GWB-1	12/18/2018	ND<40	FALSE
PH1-GWB-1	6/12/2019	ND<40	FALSE
PH1-GWB-1	12/11/2019	ND<40	FALSE
PH1-GWB-1	6/25/2020	ND<40	FALSE

<b>PH1-GWA-1</b>	<b>12/11/2014</b>	<b>96</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/24/2015</b>	<b>120</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/9/2015</b>	<b>95</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/15/2016</b>	<b>110</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/8/2016</b>	<b>94</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/14/2017</b>	<b>100</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/14/2017</b>	<b>76</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/20/2018</b>	<b>75</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/19/2018</b>	<b>82</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/11/2019</b>	<b>91</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>12/10/2019</b>	<b>90.1</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/23/2020</b>	<b>76.6</b>	<b>TRUE</b>

PH1-GWA-2	12/11/2014	ND<40	FALSE
PH1-GWA-2	6/23/2015	ND<40	FALSE

Total Cobalt

PH1-GWA-2	12/9/2015	ND<40	FALSE
PH1-GWA-2	6/14/2016	ND<40	FALSE
PH1-GWA-2	12/8/2016	ND<40	FALSE
PH1-GWA-2	6/16/2017	ND<40	FALSE
PH1-GWA-2	12/14/2017	ND<40	FALSE
PH1-GWA-2	6/19/2018	ND<40	FALSE
PH1-GWA-2	12/19/2018	ND<40	FALSE
PH1-GWA-2	6/12/2019	ND<40	FALSE
PH1-GWA-2	12/10/2019	ND<40	FALSE
PH1-GWA-2	6/25/2020	ND<40	FALSE

PH1-GWC-2	12/11/2014	ND<40	FALSE
PH1-GWC-2	6/23/2015	ND<40	FALSE
PH1-GWC-2	12/8/2015	ND<40	FALSE
PH1-GWC-2	6/14/2016	ND<40	FALSE
PH1-GWC-2	12/7/2016	ND<40	FALSE
PH1-GWC-2	6/14/2017	ND<40	FALSE
PH1-GWC-2	12/13/2017	ND<40	FALSE
PH1-GWC-2	6/19/2018	ND<40	FALSE
PH1-GWC-2	12/18/2018	ND<40	FALSE
PH1-GWC-2	6/10/2019	ND<40	FALSE
PH1-GWC-2	12/10/2019	ND<40	FALSE
PH1-GWC-2	6/22/2020	ND<40	FALSE

PH1-GWC-3	12/11/2014	ND<40	FALSE
PH1-GWC-3	6/25/2015	ND<40	FALSE
PH1-GWC-3	12/10/2015	ND<40	FALSE
PH1-GWC-3	6/17/2016	ND<40	FALSE
PH1-GWC-3	12/9/2016	ND<40	FALSE
PH1-GWC-3	6/14/2017	ND<40	FALSE
PH1-GWC-3	12/13/2017	ND<40	FALSE
PH1-GWC-3	6/20/2018	ND<40	FALSE
PH1-GWC-3	12/19/2018	ND<40	FALSE
PH1-GWC-3	6/11/2019	ND<40	FALSE
PH1-GWC-3	12/10/2019	ND<40	FALSE
PH1-GWC-3	6/23/2020	ND<40	FALSE

PH1-GWC-3A	12/11/2014	ND<40	FALSE
PH1-GWC-3A	6/25/2015	ND<40	FALSE
PH1-GWC-3A	12/10/2015	ND<40	FALSE
PH1-GWC-3A	6/17/2016	ND<40	FALSE
PH1-GWC-3A	12/9/2016	ND<40	FALSE
PH1-GWC-3A	6/14/2017	ND<40	FALSE
PH1-GWC-3A	12/13/2017	ND<40	FALSE
PH1-GWC-3A	6/28/2018	ND<40	FALSE
PH1-GWC-3A	12/19/2018	ND<40	FALSE
PH1-GWC-3A	6/11/2019	ND<40	FALSE
PH1-GWC-3A	12/10/2019	ND<40	FALSE
PH1-GWC-3A	6/23/2020	ND<40	FALSE

GWC-1	12/12/2014	ND<40	FALSE
GWC-1	6/25/2015	ND<40	FALSE
GWC-1	12/10/2015	ND<40	FALSE

Total Cobalt

GWC-1	6/15/2016	ND<40	FALSE
GWC-1	12/9/2016	ND<40	FALSE
GWC-1	6/14/2017	ND<40	FALSE
GWC-1	12/14/2017	ND<40	FALSE
GWC-1	6/20/2018	ND<40	FALSE
GWC-1	12/18/2018	ND<40	FALSE
GWC-1	6/13/2019	ND<40	FALSE
GWC-1	12/11/2019	ND<40	FALSE
GWC-1	6/23/2020	ND<40	FALSE

PH1-GWB-2	12/12/2014	ND<40	FALSE
PH1-GWB-2	6/25/2015	ND<40	FALSE
PH1-GWB-2	12/9/2015	ND<40	FALSE
PH1-GWB-2	6/14/2016	ND<40	FALSE
PH1-GWB-2	12/9/2016	ND<40	FALSE
PH1-GWB-2	6/16/2017	ND<40	FALSE
PH1-GWB-2	12/12/2017	ND<40	FALSE
PH1-GWB-2	6/20/2018	ND<40	FALSE
PH1-GWB-2	12/18/2018	ND<40	FALSE
PH1-GWB-2	6/13/2019	ND<40	FALSE
PH1-GWB-2	12/13/2019	ND<40	FALSE
PH1-GWB-2	6/25/2020	ND<40	FALSE

PH1-GWC-1	12/12/2014	ND<40	FALSE
PH1-GWC-1	6/25/2015	ND<40	FALSE
PH1-GWC-1	12/9/2015	ND<40	FALSE
PH1-GWC-1	6/16/2016	ND<40	FALSE
PH1-GWC-1	12/9/2016	ND<40	FALSE
PH1-GWC-1	6/16/2017	ND<40	FALSE
PH1-GWC-1	12/12/2017	ND<40	FALSE
PH1-GWC-1	6/20/2018	ND<40	FALSE
PH1-GWC-1	12/20/2018	ND<40	FALSE
PH1-GWC-1	6/13/2019	ND<40	FALSE
PH1-GWC-1	12/12/2019	ND<40	FALSE
PH1-GWC-1	6/23/2020	ND<40	FALSE

PH1-GWC-4	12/12/2014	ND<40	FALSE
PH1-GWC-4	6/25/2015	ND<40	FALSE
PH1-GWC-4	12/8/2015	ND<40	FALSE
PH1-GWC-4	6/14/2016	ND<40	FALSE
PH1-GWC-4	12/9/2016	ND<40	FALSE
PH1-GWC-4	6/16/2017	ND<40	FALSE
PH1-GWC-4	12/12/2017	ND<40	FALSE
PH1-GWC-4	6/20/2018	ND<40	FALSE
PH1-GWC-4	12/20/2018	ND<40	FALSE
PH1-GWC-4	6/13/2019	ND<40	FALSE
PH1-GWC-4	6/23/2020	ND<40	FALSE

Total Zinc

### Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.6129%

Background measurements (n) = 24

Maximum Background Concentration = 48.9

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
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PH1-GWA-1A	12/8/2014	ND<20	FALSE
PH1-GWA-1A	6/23/2015	ND<20	FALSE
PH1-GWA-1A	12/9/2015	ND<20	FALSE
PH1-GWA-1A	6/14/2016	ND<20	FALSE
PH1-GWA-1A	12/7/2016	ND<20	FALSE
PH1-GWA-1A	6/12/2017	ND<20	FALSE
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE
PH1-GWA-1A	12/10/2019	ND<20	FALSE
PH1-GWA-1A	6/22/2020	ND<20	FALSE

PH1-GWB-1	12/9/2014	21	FALSE
PH1-GWB-1	6/23/2015	ND<20	FALSE
PH1-GWB-1	12/8/2015	29	FALSE
PH1-GWB-1	6/14/2016	ND<20	FALSE
PH1-GWB-1	12/8/2016	ND<20	FALSE
PH1-GWB-1	6/16/2017	ND<20	FALSE
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	6/19/2018	39	FALSE
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	6/12/2019	22	FALSE
PH1-GWB-1	12/11/2019	38.2	FALSE
PH1-GWB-1	6/25/2020	26.8	FALSE

PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	34	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	43	FALSE
PH1-GWA-1	12/14/2017	51	TRUE
PH1-GWA-1	6/20/2018	55	TRUE
PH1-GWA-1	12/19/2018	40	FALSE
PH1-GWA-1	6/11/2019	34	FALSE
PH1-GWA-1	12/10/2019	32.4	FALSE
PH1-GWA-1	6/23/2020	ND<20	FALSE

PH1-GWA-2	12/11/2014	ND<20	FALSE
PH1-GWA-2	6/23/2015	ND<20	FALSE

Total Zinc

PH1-GWA-2	12/9/2015	ND<20	FALSE
PH1-GWA-2	6/14/2016	56	TRUE
PH1-GWA-2	12/8/2016	ND<20	FALSE
PH1-GWA-2	6/16/2017	ND<20	FALSE
PH1-GWA-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	12/19/2018	29	FALSE
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWA-2	12/10/2019	ND<20	FALSE
PH1-GWA-2	6/25/2020	ND<20	FALSE

PH1-GWC-2	12/11/2014	22	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	ND<20	FALSE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	6/10/2019	26	FALSE
PH1-GWC-2	12/10/2019	ND<20	FALSE
PH1-GWC-2	6/22/2020	ND<20	FALSE

PH1-GWC-3	12/11/2014	ND<20	FALSE
PH1-GWC-3	6/25/2015	ND<20	FALSE
PH1-GWC-3	12/10/2015	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
PH1-GWC-3	12/9/2016	ND<20	FALSE
PH1-GWC-3	6/14/2017	ND<20	FALSE
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3	12/10/2019	ND<20	FALSE
PH1-GWC-3	6/23/2020	ND<20	FALSE

PH1-GWC-3A	12/11/2014	ND<20	FALSE
PH1-GWC-3A	6/25/2015	ND<20	FALSE
PH1-GWC-3A	12/10/2015	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
PH1-GWC-3A	12/9/2016	ND<20	FALSE
PH1-GWC-3A	6/14/2017	ND<20	FALSE
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	6/28/2018	21	FALSE
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/10/2019	ND<20	FALSE
PH1-GWC-3A	6/23/2020	36.9	FALSE

GWC-1	12/12/2014	ND<20	FALSE
GWC-1	6/25/2015	ND<20	FALSE
GWC-1	12/10/2015	ND<20	FALSE

Total Zinc

GWC-1	6/15/2016	ND<20	FALSE
GWC-1	12/9/2016	ND<20	FALSE
GWC-1	6/14/2017	ND<20	FALSE
GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
GWC-1	12/11/2019	27.1	FALSE
<b>GWC-1</b>	<b>6/23/2020</b>	<b>55.4</b>	<b>TRUE</b>

PH1-GWB-2	12/12/2014	31	FALSE
PH1-GWB-2	6/25/2015	23	FALSE
<b>PH1-GWB-2</b>	<b>12/9/2015</b>	<b>49</b>	<b>TRUE</b>
<b>PH1-GWB-2</b>	<b>6/14/2016</b>	<b>59</b>	<b>TRUE</b>
PH1-GWB-2	12/9/2016	31	FALSE
PH1-GWB-2	6/16/2017	36	FALSE
PH1-GWB-2	12/12/2017	25	FALSE
PH1-GWB-2	6/20/2018	31	FALSE
PH1-GWB-2	12/18/2018	28	FALSE
PH1-GWB-2	6/13/2019	33	FALSE
PH1-GWB-2	12/13/2019	38.3	FALSE
PH1-GWB-2	6/25/2020	25.4	FALSE

PH1-GWC-1	12/12/2014	ND<20	FALSE
PH1-GWC-1	6/25/2015	ND<20	FALSE
PH1-GWC-1	12/9/2015	ND<20	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
PH1-GWC-1	12/9/2016	ND<20	FALSE
PH1-GWC-1	6/16/2017	ND<20	FALSE
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-1	12/12/2019	ND<20	FALSE
PH1-GWC-1	6/23/2020	32.5	FALSE

PH1-GWC-4	12/12/2014	20	FALSE
PH1-GWC-4	6/25/2015	ND<20	FALSE
PH1-GWC-4	12/8/2015	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
PH1-GWC-4	12/9/2016	21	FALSE
PH1-GWC-4	6/16/2017	20	FALSE
PH1-GWC-4	12/12/2017	28	FALSE
PH1-GWC-4	6/20/2018	ND<20	FALSE
<b>PH1-GWC-4</b>	<b>12/20/2018</b>	<b>120</b>	<b>TRUE</b>
PH1-GWC-4	6/13/2019	20	FALSE
PH1-GWC-4	6/23/2020	ND<20	FALSE

Trichloroethene

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.9677%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/10/2019	ND<2	FALSE
PH1-GWA-1A	6/22/2020	ND<2	FALSE

PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWB-1	12/10/2019	ND<2	FALSE
PH1-GWB-1	6/24/2020	ND<2	FALSE

<b>PH1-GWA-1</b>	<b>12/10/2014</b>	<b>2.7</b>	<b>TRUE</b>
<b>PH1-GWA-1</b>	<b>6/23/2015</b>	<b>2.1</b>	<b>TRUE</b>
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
<b>PH1-GWA-1</b>	<b>12/7/2016</b>	<b>2.2</b>	<b>TRUE</b>
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
<b>PH1-GWA-1</b>	<b>12/9/2019</b>	<b>3.1</b>	<b>TRUE</b>
PH1-GWA-1	6/22/2020	ND<2	FALSE

<b>PH1-GWA-2</b>	<b>12/10/2014</b>	<b>6.7</b>	<b>TRUE</b>
<b>PH1-GWA-2</b>	<b>6/22/2015</b>	<b>5.1</b>	<b>TRUE</b>



## Trichloroethene

PH1-GWA-2	12/8/2015	3.5	TRUE
PH1-GWA-2	6/13/2016	3.8	TRUE
PH1-GWA-2	12/7/2016	7.1	TRUE
PH1-GWA-2	6/15/2017	4.1	TRUE
PH1-GWA-2	12/13/2017	5.8	TRUE
PH1-GWA-2	6/18/2018	4.2	TRUE
PH1-GWA-2	12/18/2018	4	TRUE
PH1-GWA-2	6/11/2019	2.1	TRUE
PH1-GWA-2	12/9/2019	7.3	TRUE
PH1-GWA-2	6/24/2020	2.4	TRUE

PH1-GWC-3	12/10/2014	4.6	TRUE
PH1-GWC-3	6/24/2015	5.3	TRUE
PH1-GWC-3	12/9/2015	6.9	TRUE
PH1-GWC-3	6/16/2016	5.6	TRUE
PH1-GWC-3	12/8/2016	7.6	TRUE
PH1-GWC-3	6/13/2017	7	TRUE
PH1-GWC-3	12/12/2017	8.4	TRUE
PH1-GWC-3	6/19/2018	6.9	TRUE
PH1-GWC-3	12/18/2018	6.8	TRUE
PH1-GWC-3	6/10/2019	7.4	TRUE
PH1-GWC-3	12/9/2019	8.7	TRUE
PH1-GWC-3	6/22/2020	7.1	TRUE

PH1-GWC-3A	12/10/2014	5.8	TRUE
PH1-GWC-3A	6/24/2015	6.5	TRUE
PH1-GWC-3A	12/9/2015	6.7	TRUE
PH1-GWC-3A	6/16/2016	4.6	TRUE
PH1-GWC-3A	12/8/2016	6.8	TRUE
PH1-GWC-3A	6/13/2017	6	TRUE
PH1-GWC-3A	12/12/2017	6.6	TRUE
PH1-GWC-3A	6/19/2018	6.8	TRUE
PH1-GWC-3A	12/18/2018	5.8	TRUE
PH1-GWC-3A	6/10/2019	5.7	TRUE
PH1-GWC-3A	12/9/2019	8.4	TRUE
PH1-GWC-3A	6/26/2020	2.8	TRUE

GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
GWC-1	12/10/2019	ND<2	FALSE
GWC-1	6/22/2020	ND<2	FALSE

PH1-GWB-2	12/11/2014	ND<2	FALSE
PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE

## Trichloroethene

PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWB-2	12/12/2019	ND<2	FALSE
PH1-GWB-2	6/24/2020	ND<2	FALSE

PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-1	12/11/2019	ND<2	FALSE
PH1-GWC-1	6/22/2020	ND<2	FALSE

PH1-GWC-2	12/11/2014	ND<2	FALSE
PH1-GWC-2	6/23/2015	ND<2	FALSE
PH1-GWC-2	12/8/2015	ND<2	FALSE
PH1-GWC-2	6/14/2016	ND<2	FALSE
PH1-GWC-2	12/7/2016	ND<2	FALSE
PH1-GWC-2	6/13/2017	2.4	TRUE
PH1-GWC-2	12/13/2017	ND<2	FALSE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2	FALSE
PH1-GWC-2	6/10/2019	2	FALSE
PH1-GWC-2	12/10/2019	2.6	TRUE
PH1-GWC-2	6/22/2020	2.1	TRUE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWC-4	6/22/2020	ND<2	FALSE

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-1A	FALSE	96%
1,1-Dichloroethane	GWA-3	FALSE	96%
1,1-Dichloroethane	GWC-22	FALSE	96%
1,1-Dichloroethane	GWC-23	FALSE	96%
1,1-Dichloroethane	GWC-23A	FALSE	96%
1,1-Dichloroethane	GWC-5	FALSE	96%
1,1-Dichloroethane	GWC-7	FALSE	96%
1,1-Dichloroethane	GWC-10	FALSE	96%
1,1-Dichloroethane	GWC-10A	FALSE	96%
1,1-Dichloroethane	GWC-11	FALSE	96%
1,1-Dichloroethane	GWC-12	FALSE	96%
1,1-Dichloroethane	GWC-12A	FALSE	96%
1,1-Dichloroethane	GWC-6	FALSE	96%
1,1-Dichloroethane	GWC-16A	FALSE	96%
1,1-Dichloroethane	GWC-14	FALSE	96%
1,1-Dichloroethane	GWC-14A	TRUE	96%
1,1-Dichloroethane	GWC-14R	TRUE	96%
1,1-Dichloroethane	GWC-15	TRUE	96%
1,1-Dichloroethane	GWC-17	FALSE	96%
1,1-Dichloroethane	GWC-18	FALSE	96%
1,1-Dichloroethane	GWC-19R	FALSE	96%
1,1-Dichloroethane	GWC-24	FALSE	96%
1,1-Dichloroethane	GWC-8	FALSE	96%
1,1-Dichloroethane	GWC-8A	TRUE	96%
1,1-Dichloroethane	GWC-8R	TRUE	96%
1,1-Dichloroethane	GWC-13	FALSE	96%
1,1-Dichloroethane	GWC-2	FALSE	96%
1,1-Dichloroethane	GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-4	FALSE	96%
1,1-Dichloroethane	GWC-4A	FALSE	96%
1,1-Dichloroethane	GWC-9	FALSE	96%
1,1-Dichloroethane	GWC-3	FALSE	96%
Acetone	GWA-1A	FALSE	96%
Acetone	GWA-3	FALSE	96%
Acetone	GWC-22	FALSE	96%
Acetone	GWC-23	FALSE	96%
Acetone	GWC-23A	FALSE	96%
Acetone	GWC-5	FALSE	96%
Acetone	GWC-7	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-10	FALSE	96%
Acetone	GWC-10A	FALSE	96%
Acetone	GWC-11	FALSE	96%
Acetone	GWC-12	FALSE	96%
Acetone	GWC-12A	FALSE	96%
Acetone	GWC-6	FALSE	96%
Acetone	GWC-16A	FALSE	96%
Acetone	GWC-14	FALSE	96%
Acetone	GWC-14A	FALSE	96%
Acetone	GWC-14R	FALSE	96%
Acetone	GWC-15	FALSE	96%
Acetone	GWC-17	FALSE	96%
Acetone	GWC-18	FALSE	96%
Acetone	GWC-19R	FALSE	96%
Acetone	GWC-24	FALSE	96%
Acetone	GWC-8	FALSE	96%
Acetone	GWC-8A	FALSE	96%
Acetone	GWC-8R	FALSE	96%
Acetone	GWC-13	FALSE	96%
Acetone	GWC-2	FALSE	96%
Acetone	GWC-3A	FALSE	96%
Acetone	GWC-4	FALSE	96%
Acetone	GWC-4A	FALSE	96%
Acetone	GWC-9	FALSE	96%
Acetone	GWC-3	FALSE	96%
Benzene	GWA-1A	FALSE	96%
Benzene	GWA-3	FALSE	96%
Benzene	GWC-22	FALSE	96%
Benzene	GWC-23	FALSE	96%
Benzene	GWC-23A	FALSE	96%
Benzene	GWC-5	FALSE	96%
Benzene	GWC-7	FALSE	96%
Benzene	GWC-10	FALSE	96%
Benzene	GWC-10A	FALSE	96%
Benzene	GWC-11	FALSE	96%
Benzene	GWC-12	FALSE	96%
Benzene	GWC-12A	FALSE	96%
Benzene	GWC-6	FALSE	96%
Benzene	GWC-16A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-14	FALSE	96%
Benzene	GWC-14A	TRUE	96%
Benzene	GWC-14R	FALSE	96%
Benzene	GWC-15	PASSED KW	96%
Benzene	GWC-17	FALSE	96%
Benzene	GWC-18	FALSE	96%
Benzene	GWC-19R	FALSE	96%
Benzene	GWC-24	FALSE	96%
Benzene	GWC-8	FALSE	96%
Benzene	GWC-8A	FALSE	96%
Benzene	GWC-8R	FALSE	96%
Benzene	GWC-13	FALSE	96%
Benzene	GWC-2	FALSE	96%
Benzene	GWC-3A	FALSE	96%
Benzene	GWC-4	FALSE	96%
Benzene	GWC-4A	FALSE	96%
Benzene	GWC-9	FALSE	96%
Benzene	GWC-3	FALSE	96%
Chloroethane	GWA-1A	FALSE	96%
Chloroethane	GWA-3	FALSE	96%
Chloroethane	GWC-22	FALSE	96%
Chloroethane	GWC-23	FALSE	96%
Chloroethane	GWC-23A	FALSE	96%
Chloroethane	GWC-5	FALSE	96%
Chloroethane	GWC-7	FALSE	96%
Chloroethane	GWC-10	FALSE	96%
Chloroethane	GWC-10A	FALSE	96%
Chloroethane	GWC-11	FALSE	96%
Chloroethane	GWC-12	FALSE	96%
Chloroethane	GWC-12A	FALSE	96%
Chloroethane	GWC-6	FALSE	96%
Chloroethane	GWC-16A	FALSE	96%
Chloroethane	GWC-14	FALSE	96%
Chloroethane	GWC-14A	TRUE	96%
Chloroethane	GWC-14R	FALSE	96%
Chloroethane	GWC-15	FALSE	96%
Chloroethane	GWC-17	FALSE	96%
Chloroethane	GWC-18	FALSE	96%
Chloroethane	GWC-19R	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-24	FALSE	96%
Chloroethane	GWC-8	FALSE	96%
Chloroethane	GWC-8A	FALSE	96%
Chloroethane	GWC-8R	FALSE	96%
Chloroethane	GWC-13	FALSE	96%
Chloroethane	GWC-2	FALSE	96%
Chloroethane	GWC-3A	FALSE	96%
Chloroethane	GWC-4	FALSE	96%
Chloroethane	GWC-4A	FALSE	96%
Chloroethane	GWC-9	FALSE	96%
Chloroethane	GWC-3	FALSE	96%
cis-1,2-Dichloroethene	GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	GWA-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-22	FALSE	96%
cis-1,2-Dichloroethene	GWC-23	FALSE	96%
cis-1,2-Dichloroethene	GWC-23A	FALSE	96%
cis-1,2-Dichloroethene	GWC-5	FALSE	96%
cis-1,2-Dichloroethene	GWC-7	FALSE	96%
cis-1,2-Dichloroethene	GWC-10	FALSE	96%
cis-1,2-Dichloroethene	GWC-10A	FALSE	96%
cis-1,2-Dichloroethene	GWC-11	FALSE	96%
cis-1,2-Dichloroethene	GWC-12	FALSE	96%
cis-1,2-Dichloroethene	GWC-12A	FALSE	96%
cis-1,2-Dichloroethene	GWC-6	FALSE	96%
cis-1,2-Dichloroethene	GWC-16A	TRUE	96%
cis-1,2-Dichloroethene	GWC-14	FALSE	96%
cis-1,2-Dichloroethene	GWC-14A	TRUE	96%
cis-1,2-Dichloroethene	GWC-14R	TRUE	96%
cis-1,2-Dichloroethene	GWC-15	TRUE	96%
cis-1,2-Dichloroethene	GWC-17	FALSE	96%
cis-1,2-Dichloroethene	GWC-18	TRUE	96%
cis-1,2-Dichloroethene	GWC-19R	TRUE	96%
cis-1,2-Dichloroethene	GWC-24	TRUE	96%
cis-1,2-Dichloroethene	GWC-8	FALSE	96%
cis-1,2-Dichloroethene	GWC-8A	TRUE	96%
cis-1,2-Dichloroethene	GWC-8R	TRUE	96%
cis-1,2-Dichloroethene	GWC-13	FALSE	96%
cis-1,2-Dichloroethene	GWC-2	FALSE	96%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96%
cis-1,2-Dichloroethene	GWC-9	FALSE	96%
cis-1,2-Dichloroethene	GWC-3	FALSE	96%
Tetrachloroethene	GWA-1A	FALSE	96%
Tetrachloroethene	GWA-3	FALSE	96%
Tetrachloroethene	GWC-22	FALSE	96%
Tetrachloroethene	GWC-23	FALSE	96%
Tetrachloroethene	GWC-23A	FALSE	96%
Tetrachloroethene	GWC-5	FALSE	96%
Tetrachloroethene	GWC-7	FALSE	96%
Tetrachloroethene	GWC-10	FALSE	96%
Tetrachloroethene	GWC-10A	FALSE	96%
Tetrachloroethene	GWC-11	FALSE	96%
Tetrachloroethene	GWC-12	FALSE	96%
Tetrachloroethene	GWC-12A	FALSE	96%
Tetrachloroethene	GWC-6	FALSE	96%
Tetrachloroethene	GWC-16A	FALSE	96%
Tetrachloroethene	GWC-14	FALSE	96%
Tetrachloroethene	GWC-14A	FALSE	96%
Tetrachloroethene	GWC-14R	FALSE	96%
Tetrachloroethene	GWC-15	TRUE	96%
Tetrachloroethene	GWC-17	FALSE	96%
Tetrachloroethene	GWC-18	TRUE	96%
Tetrachloroethene	GWC-19R	FALSE	96%
Tetrachloroethene	GWC-24	FALSE	96%
Tetrachloroethene	GWC-8	FALSE	96%
Tetrachloroethene	GWC-8A	FALSE	96%
Tetrachloroethene	GWC-8R	FALSE	96%
Tetrachloroethene	GWC-13	FALSE	96%
Tetrachloroethene	GWC-2	FALSE	96%
Tetrachloroethene	GWC-3A	FALSE	96%
Tetrachloroethene	GWC-4	FALSE	96%
Tetrachloroethene	GWC-4A	FALSE	96%
Tetrachloroethene	GWC-9	FALSE	96%
Tetrachloroethene	GWC-3	FALSE	96%
Toluene	GWA-1A	FALSE	96%
Toluene	GWA-3	FALSE	96%
Toluene	GWC-22	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-23	FALSE	96%
Toluene	GWC-23A	FALSE	96%
Toluene	GWC-5	FALSE	96%
Toluene	GWC-7	FALSE	96%
Toluene	GWC-10	FALSE	96%
Toluene	GWC-10A	FALSE	96%
Toluene	GWC-11	FALSE	96%
Toluene	GWC-12	FALSE	96%
Toluene	GWC-12A	FALSE	96%
Toluene	GWC-6	FALSE	96%
Toluene	GWC-16A	FALSE	96%
Toluene	GWC-14	FALSE	96%
Toluene	GWC-14A	FALSE	96%
Toluene	GWC-14R	FALSE	96%
Toluene	GWC-15	FALSE	96%
Toluene	GWC-17	FALSE	96%
Toluene	GWC-18	FALSE	96%
Toluene	GWC-19R	FALSE	96%
Toluene	GWC-24	FALSE	96%
Toluene	GWC-8	FALSE	96%
Toluene	GWC-8A	FALSE	96%
Toluene	GWC-8R	FALSE	96%
Toluene	GWC-13	FALSE	96%
Toluene	GWC-2	FALSE	96%
Toluene	GWC-3A	FALSE	96%
Toluene	GWC-4	FALSE	96%
Toluene	GWC-4A	FALSE	96%
Toluene	GWC-9	FALSE	96%
Toluene	GWC-3	FALSE	96%
Trichloroethene	GWA-1A	FALSE	96%
Trichloroethene	GWA-3	FALSE	96%
Trichloroethene	GWC-22	FALSE	96%
Trichloroethene	GWC-23	FALSE	96%
Trichloroethene	GWC-23A	FALSE	96%
Trichloroethene	GWC-5	FALSE	96%
Trichloroethene	GWC-7	FALSE	96%
Trichloroethene	GWC-10	FALSE	96%
Trichloroethene	GWC-10A	FALSE	96%
Trichloroethene	GWC-11	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-12	FALSE	96%
Trichloroethene	GWC-12A	FALSE	96%
Trichloroethene	GWC-6	FALSE	96%
Trichloroethene	GWC-16A	FALSE	96%
Trichloroethene	GWC-14	FALSE	96%
Trichloroethene	GWC-14A	FALSE	96%
Trichloroethene	GWC-14R	TRUE	96%
Trichloroethene	GWC-15	TRUE	96%
Trichloroethene	GWC-17	FALSE	96%
Trichloroethene	GWC-18	FALSE	96%
Trichloroethene	GWC-19R	FALSE	96%
Trichloroethene	GWC-24	FALSE	96%
Trichloroethene	GWC-8	FALSE	96%
Trichloroethene	GWC-8A	FALSE	96%
Trichloroethene	GWC-8R	FALSE	96%
Trichloroethene	GWC-13	FALSE	96%
Trichloroethene	GWC-2	FALSE	96%
Trichloroethene	GWC-3A	FALSE	96%
Trichloroethene	GWC-4	FALSE	96%
Trichloroethene	GWC-4A	FALSE	96%
Trichloroethene	GWC-9	FALSE	96%
Trichloroethene	GWC-3	FALSE	96%
Vinyl chloride	GWA-1A	FALSE	96%
Vinyl chloride	GWA-3	FALSE	96%
Vinyl chloride	GWC-22	FALSE	96%
Vinyl chloride	GWC-23	FALSE	96%
Vinyl chloride	GWC-23A	FALSE	96%
Vinyl chloride	GWC-5	FALSE	96%
Vinyl chloride	GWC-7	FALSE	96%
Vinyl chloride	GWC-10	FALSE	96%
Vinyl chloride	GWC-10A	FALSE	96%
Vinyl chloride	GWC-11	FALSE	96%
Vinyl chloride	GWC-12	FALSE	96%
Vinyl chloride	GWC-12A	FALSE	96%
Vinyl chloride	GWC-6	FALSE	96%
Vinyl chloride	GWC-16A	FALSE	96%
Vinyl chloride	GWC-14	FALSE	96%
Vinyl chloride	GWC-14A	TRUE	96%
Vinyl chloride	GWC-14R	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.



Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-15	FALSE	96%
Vinyl chloride	GWC-17	FALSE	96%
Vinyl chloride	GWC-18	FALSE	96%
Vinyl chloride	GWC-19R	FALSE	96%
Vinyl chloride	GWC-24	FALSE	96%
Vinyl chloride	GWC-8	FALSE	96%
Vinyl chloride	GWC-8A	FALSE	96%
Vinyl chloride	GWC-8R	FALSE	96%
Vinyl chloride	GWC-13	FALSE	96%
Vinyl chloride	GWC-2	FALSE	96%
Vinyl chloride	GWC-3A	FALSE	96%
Vinyl chloride	GWC-4	FALSE	96%
Vinyl chloride	GWC-4A	FALSE	96%
Vinyl chloride	GWC-9	FALSE	96%
Vinyl chloride	GWC-3	FALSE	96%
Total Barium	GWA-1A	FALSE	96%
Total Barium	GWC-23A	FALSE	96%
Total Barium	GWA-3	FALSE	96%
Total Barium	GWC-22	FALSE	96%
Total Barium	GWC-23	FALSE	96%
Total Barium	GWC-5	FALSE	96%
Total Barium	GWC-7	FALSE	96%
Total Barium	GWC-10	FALSE	96%
Total Barium	GWC-10A	FALSE	96%
Total Barium	GWC-11	FALSE	96%
Total Barium	GWC-12	FALSE	96%
Total Barium	GWC-12A	FALSE	96%
Total Barium	GWC-14A	TRUE	96%
Total Barium	GWC-6	FALSE	96%
Total Barium	GWC-16A	FALSE	96%
Total Barium	GWC-14	FALSE	96%
Total Barium	GWC-15	TRUE	96%
Total Barium	GWC-17	FALSE	96%
Total Barium	GWC-18	TRUE	96%
Total Barium	GWC-19R	TRUE	96%
Total Barium	GWC-8	PASSED KW	96%
Total Barium	GWC-8A	TRUE	96%
Total Barium	GWC-13	FALSE	96%
Total Barium	GWC-2	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-3A	FALSE	96%
Total Barium	GWC-4	FALSE	96%
Total Barium	GWC-4A	FALSE	96%
Total Barium	GWC-9	TRUE	96%
Total Barium	GWC-24	FALSE	96%
Total Barium	GWC-3	FALSE	96%
Total Chromium	GWA-1A	FALSE	96%
Total Chromium	GWC-23A	FALSE	96%
Total Chromium	GWA-3	FALSE	96%
Total Chromium	GWC-22	FALSE	96%
Total Chromium	GWC-23	FALSE	96%
Total Chromium	GWC-5	FALSE	96%
Total Chromium	GWC-7	FALSE	96%
Total Chromium	GWC-10	FALSE	96%
Total Chromium	GWC-10A	FALSE	96%
Total Chromium	GWC-11	FALSE	96%
Total Chromium	GWC-12	FALSE	96%
Total Chromium	GWC-12A	FALSE	96%
Total Chromium	GWC-14A	FALSE	96%
Total Chromium	GWC-6	FALSE	96%
Total Chromium	GWC-16A	FALSE	96%
Total Chromium	GWC-14	FALSE	96%
Total Chromium	GWC-15	FALSE	96%
Total Chromium	GWC-17	FALSE	96%
Total Chromium	GWC-18	FALSE	96%
Total Chromium	GWC-19R	FALSE	96%
Total Chromium	GWC-8	FALSE	96%
Total Chromium	GWC-8A	FALSE	96%
Total Chromium	GWC-13	FALSE	96%
Total Chromium	GWC-2	FALSE	96%
Total Chromium	GWC-3A	FALSE	96%
Total Chromium	GWC-4	FALSE	96%
Total Chromium	GWC-4A	FALSE	96%
Total Chromium	GWC-9	FALSE	96%
Total Chromium	GWC-24	FALSE	96%
Total Chromium	GWC-3	FALSE	96%
Total Cobalt	GWA-1A	FALSE	96%
Total Cobalt	GWC-23A	FALSE	96%
Total Cobalt	GWA-3	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-22	FALSE	96%
Total Cobalt	GWC-23	FALSE	96%
Total Cobalt	GWC-5	FALSE	96%
Total Cobalt	GWC-7	FALSE	96%
Total Cobalt	GWC-10	FALSE	96%
Total Cobalt	GWC-10A	FALSE	96%
Total Cobalt	GWC-11	FALSE	96%
Total Cobalt	GWC-12	FALSE	96%
Total Cobalt	GWC-12A	FALSE	96%
Total Cobalt	GWC-14A	TRUE	96%
Total Cobalt	GWC-6	FALSE	96%
Total Cobalt	GWC-16A	FALSE	96%
Total Cobalt	GWC-14	TRUE	96%
Total Cobalt	GWC-15	FALSE	96%
Total Cobalt	GWC-17	FALSE	96%
Total Cobalt	GWC-18	FALSE	96%
Total Cobalt	GWC-19R	FALSE	96%
Total Cobalt	GWC-8	FALSE	96%
Total Cobalt	GWC-8A	FALSE	96%
Total Cobalt	GWC-13	FALSE	96%
Total Cobalt	GWC-2	FALSE	96%
Total Cobalt	GWC-3A	FALSE	96%
Total Cobalt	GWC-4	FALSE	96%
Total Cobalt	GWC-4A	FALSE	96%
Total Cobalt	GWC-9	FALSE	96%
Total Cobalt	GWC-24	FALSE	96%
Total Cobalt	GWC-3	FALSE	96%
Total Nickel	GWA-1A	FALSE	96%
Total Nickel	GWC-23A	FALSE	96%
Total Nickel	GWA-3	FALSE	96%
Total Nickel	GWC-22	FALSE	96%
Total Nickel	GWC-23	FALSE	96%
Total Nickel	GWC-5	FALSE	96%
Total Nickel	GWC-7	FALSE	96%
Total Nickel	GWC-10	FALSE	96%
Total Nickel	GWC-10A	FALSE	96%
Total Nickel	GWC-11	FALSE	96%
Total Nickel	GWC-12	FALSE	96%
Total Nickel	GWC-12A	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-14A	TRUE	96%
Total Nickel	GWC-6	FALSE	96%
Total Nickel	GWC-16A	FALSE	96%
Total Nickel	GWC-14	FALSE	96%
Total Nickel	GWC-15	FALSE	96%
Total Nickel	GWC-17	FALSE	96%
Total Nickel	GWC-18	FALSE	96%
Total Nickel	GWC-19R	FALSE	96%
Total Nickel	GWC-8	FALSE	96%
Total Nickel	GWC-8A	FALSE	96%
Total Nickel	GWC-13	FALSE	96%
Total Nickel	GWC-2	FALSE	96%
Total Nickel	GWC-3A	FALSE	96%
Total Nickel	GWC-4	FALSE	96%
Total Nickel	GWC-4A	FALSE	96%
Total Nickel	GWC-9	FALSE	96%
Total Nickel	GWC-24	FALSE	96%
Total Nickel	GWC-3	FALSE	96%
Total Zinc	GWA-1A	FALSE	96%
Total Zinc	GWC-23A	FALSE	96%
Total Zinc	GWA-3	FALSE	96%
Total Zinc	GWC-22	FALSE	96%
Total Zinc	GWC-23	FALSE	96%
Total Zinc	GWC-5	FALSE	96%
Total Zinc	GWC-7	FALSE	96%
Total Zinc	GWC-10	FALSE	96%
Total Zinc	GWC-10A	FALSE	96%
Total Zinc	GWC-11	FALSE	96%
Total Zinc	GWC-12	FALSE	96%
Total Zinc	GWC-12A	FALSE	96%
Total Zinc	GWC-14A	FALSE	96%
Total Zinc	GWC-6	FALSE	96%
Total Zinc	GWC-16A	FALSE	96%
Total Zinc	GWC-14	FALSE	96%
Total Zinc	GWC-15	FALSE	96%
Total Zinc	GWC-17	FALSE	96%
Total Zinc	GWC-18	FALSE	96%
Total Zinc	GWC-19R	FALSE	96%
Total Zinc	GWC-8	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV  
 First 2020 Groundwater Monitoring Event  
 Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-8A	FALSE	96%
Total Zinc	GWC-13	FALSE	96%
Total Zinc	GWC-2	FALSE	96%
Total Zinc	GWC-3A	FALSE	96%
Total Zinc	GWC-4	FALSE	96%
Total Zinc	GWC-4A	FALSE	96%
Total Zinc	GWC-9	FALSE	96%
Total Zinc	GWC-24	FALSE	96%
Total Zinc	GWC-3	FALSE	96%

Notes:

1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

## Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 84.596%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE

GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE

GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE

GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE

GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE

GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE

GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE

GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

1,1-Dichloroethane

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

1,1-Dichloroethane

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>5.5</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>3.7</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>19</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/23/2015</b>	<b>13</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/9/2015</b>	<b>16</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/15/2016</b>	<b>16</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>22</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>16</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>23</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>17</b>	<b>TRUE</b>

## 1,1-Dichloroethane

GWC-14A	12/19/2018	16	TRUE
GWC-14A	6/11/2019	9.2	TRUE
GWC-14A	12/10/2019	14	TRUE
GWC-14A	6/24/2020	10	TRUE

GWC-14R	12/10/2014	30	TRUE
GWC-14R	6/23/2015	25	TRUE
GWC-14R	12/10/2015	22	TRUE
GWC-14R	6/15/2016	26	TRUE
GWC-14R	12/8/2016	24	TRUE
GWC-14R	6/13/2017	21	TRUE
GWC-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	22	TRUE
GWC-14R	12/19/2018	18	TRUE
GWC-14R	6/12/2019	18	TRUE
GWC-14R	12/10/2019	14	TRUE
GWC-14R	6/23/2020	18	TRUE

GWC-15	12/10/2014	5.4	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	5.2	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	38	TRUE
GWC-15	6/14/2017	2.9	TRUE
GWC-15	12/13/2017	3.7	TRUE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	3	TRUE
GWC-15	6/11/2019	38	TRUE
GWC-15	12/10/2019	23	TRUE
GWC-15	6/25/2020	39	TRUE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	2.9	TRUE
GWC-18	6/22/2015	2.7	TRUE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE

## 1,1-Dichloroethane

GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	6.1	TRUE
GWC-8A	6/24/2015	3	TRUE
GWC-8A	12/10/2015	3.8	TRUE
GWC-8A	6/15/2016	3.4	TRUE
GWC-8A	12/8/2016	5.1	TRUE
GWC-8A	6/13/2017	3	TRUE
GWC-8A	12/12/2017	4.9	TRUE
GWC-8A	6/20/2018	3.9	TRUE
GWC-8A	12/19/2018	4.2	TRUE
GWC-8A	6/12/2019	2.6	TRUE
GWC-8A	12/11/2019	3.7	TRUE
GWC-8A	6/23/2020	2.4	TRUE



## 1,1-Dichloroethane

GWC-8R	12/10/2014	19	TRUE
GWC-8R	6/23/2015	16	TRUE
GWC-8R	12/10/2015	18	TRUE
GWC-8R	6/15/2016	15	TRUE
GWC-8R	12/8/2016	15	TRUE
GWC-8R	6/13/2017	14	TRUE
GWC-8R	12/12/2017	14	TRUE
GWC-8R	6/20/2018	22	TRUE
GWC-8R	12/19/2018	13	TRUE
GWC-8R	6/12/2019	12	TRUE
GWC-8R	12/11/2019	9.3	TRUE
GWC-8R	6/23/2020	13	TRUE

GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

## 1,1-Dichloroethane

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

Acetone

### Non-Parametric Tolerance Interval

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%

Background measurements (n) = 24

Maximum Background Concentration = 100

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<100	FALSE
GWA-1A	6/23/2015	ND<100	FALSE
GWA-1A	12/8/2015	ND<100	FALSE
GWA-1A	6/14/2016	ND<100	FALSE
GWA-1A	12/7/2016	ND<100	FALSE
GWA-1A	6/12/2017	ND<100	FALSE
GWA-1A	12/13/2017	ND<100	FALSE
GWA-1A	6/19/2018	ND<100	FALSE
GWA-1A	12/18/2018	ND<100	FALSE
GWA-1A	6/10/2019	ND<100	FALSE
GWA-1A	12/9/2019	ND<100	FALSE
GWA-1A	6/23/2020	ND<100	FALSE

GWA-3	12/8/2014	ND<100	FALSE
GWA-3	6/22/2015	ND<100	FALSE
GWA-3	12/7/2015	ND<100	FALSE
GWA-3	6/13/2016	ND<100	FALSE
GWA-3	12/8/2016	ND<100	FALSE
GWA-3	6/14/2017	ND<100	FALSE
GWA-3	12/11/2017	ND<100	FALSE
GWA-3	6/18/2018	ND<100	FALSE
GWA-3	12/17/2018	ND<100	FALSE
GWA-3	6/11/2019	ND<100	FALSE
GWA-3	12/10/2019	ND<100	FALSE
GWA-3	6/22/2020	ND<100	FALSE

GWC-22	12/8/2014	ND<100	FALSE
GWC-22	6/22/2015	ND<100	FALSE
GWC-22	12/9/2015	ND<100	FALSE
GWC-22	6/15/2016	ND<100	FALSE
GWC-22	12/6/2016	ND<100	FALSE
GWC-22	6/14/2017	ND<100	FALSE
GWC-22	12/11/2017	ND<100	FALSE
GWC-22	6/19/2018	ND<100	FALSE
GWC-22	12/18/2018	ND<100	FALSE
GWC-22	6/12/2019	ND<100	FALSE
GWC-22	12/11/2019	ND<100	FALSE
GWC-22	6/23/2020	ND<100	FALSE

GWC-23	12/8/2014	ND<100	FALSE
GWC-23	6/22/2015	ND<100	FALSE

Acetone

GWC-23	12/8/2015	ND<100	FALSE
GWC-23	6/15/2016	ND<100	FALSE
GWC-23	12/6/2016	ND<100	FALSE
GWC-23	6/14/2017	ND<100	FALSE
GWC-23	12/11/2017	ND<100	FALSE
GWC-23	6/18/2018	ND<100	FALSE
GWC-23	12/18/2018	ND<100	FALSE
GWC-23	6/12/2019	ND<100	FALSE
GWC-23	12/11/2019	ND<100	FALSE
GWC-23	6/24/2020	ND<100	FALSE

GWC-23A	12/8/2014	ND<100	FALSE
GWC-23A	6/22/2015	ND<100	FALSE
GWC-23A	12/8/2015	ND<100	FALSE
GWC-23A	6/15/2016	ND<100	FALSE
GWC-23A	12/6/2016	ND<100	FALSE
GWC-23A	6/14/2017	ND<100	FALSE
GWC-23A	12/11/2017	ND<100	FALSE
GWC-23A	6/18/2018	ND<100	FALSE
GWC-23A	12/18/2018	ND<100	FALSE
GWC-23A	6/12/2019	ND<100	FALSE
GWC-23A	12/11/2019	ND<100	FALSE
GWC-23A	6/24/2020	ND<100	FALSE

GWC-5	12/8/2014	ND<100	FALSE
GWC-5	6/24/2015	ND<100	FALSE
GWC-5	12/7/2015	ND<100	FALSE
GWC-5	6/14/2016	ND<100	FALSE
GWC-5	12/8/2016	ND<100	FALSE
GWC-5	6/12/2017	ND<100	FALSE
GWC-5	12/12/2017	ND<100	FALSE
GWC-5	6/21/2018	ND<100	FALSE
GWC-5	12/18/2018	ND<100	FALSE
GWC-5	6/12/2019	ND<100	FALSE
GWC-5	12/10/2019	ND<100	FALSE
GWC-5	6/23/2020	ND<100	FALSE

GWC-7	12/8/2014	ND<100	FALSE
GWC-7	6/24/2015	ND<100	FALSE
GWC-7	12/7/2015	ND<100	FALSE
GWC-7	6/15/2016	ND<100	FALSE
GWC-7	12/8/2016	ND<100	FALSE
GWC-7	6/12/2017	ND<100	FALSE
GWC-7	12/12/2017	ND<100	FALSE
GWC-7	6/19/2018	ND<100	FALSE
GWC-7	12/18/2018	ND<100	FALSE
GWC-7	6/12/2019	ND<100	FALSE
GWC-7	12/11/2019	ND<100	FALSE
GWC-7	6/24/2020	ND<100	FALSE

GWC-10	12/9/2014	ND<100	FALSE
GWC-10	6/22/2015	ND<100	FALSE
GWC-10	12/7/2015	ND<100	FALSE

Acetone

GWC-10	6/14/2016	ND<100	FALSE
GWC-10	12/8/2016	ND<100	FALSE
GWC-10	6/15/2017	ND<100	FALSE
GWC-10	12/12/2017	ND<100	FALSE
GWC-10	6/19/2018	ND<100	FALSE
GWC-10	12/17/2018	ND<100	FALSE
GWC-10	6/10/2019	ND<100	FALSE
GWC-10	12/12/2019	ND<100	FALSE
GWC-10	6/24/2020	ND<100	FALSE

GWC-10A	12/9/2014	ND<100	FALSE
GWC-10A	6/22/2015	ND<100	FALSE
GWC-10A	12/7/2015	ND<100	FALSE
GWC-10A	6/14/2016	ND<100	FALSE
GWC-10A	12/8/2016	ND<100	FALSE
GWC-10A	6/15/2017	ND<100	FALSE
GWC-10A	12/12/2017	ND<100	FALSE
GWC-10A	6/19/2018	ND<100	FALSE
GWC-10A	12/17/2018	ND<100	FALSE
GWC-10A	6/10/2019	ND<100	FALSE
GWC-10A	12/12/2019	ND<100	FALSE
GWC-10A	6/24/2020	ND<100	FALSE

GWC-11	12/9/2014	ND<100	FALSE
GWC-11	6/22/2015	ND<100	FALSE
GWC-11	12/7/2015	ND<100	FALSE
GWC-11	6/14/2016	ND<100	FALSE
GWC-11	12/7/2016	ND<100	FALSE
GWC-11	6/14/2017	ND<100	FALSE
GWC-11	12/13/2017	ND<100	FALSE
GWC-11	6/19/2018	ND<100	FALSE
GWC-11	12/19/2018	ND<100	FALSE
GWC-11	6/12/2019	ND<100	FALSE
GWC-11	12/12/2019	ND<100	FALSE
GWC-11	6/24/2020	ND<100	FALSE

GWC-12	12/9/2014	ND<100	FALSE
GWC-12	6/22/2015	ND<100	FALSE
GWC-12	12/7/2015	ND<100	FALSE
GWC-12	6/14/2016	ND<100	FALSE
GWC-12	12/7/2016	ND<100	FALSE
GWC-12	6/14/2017	ND<100	FALSE
GWC-12	12/13/2017	ND<100	FALSE
GWC-12	6/19/2018	ND<100	FALSE
GWC-12	12/19/2018	ND<100	FALSE
GWC-12	6/11/2019	ND<100	FALSE
GWC-12	12/9/2019	ND<100	FALSE
GWC-12	6/24/2020	ND<100	FALSE

GWC-12A	12/9/2014	ND<100	FALSE
GWC-12A	6/22/2015	ND<100	FALSE
GWC-12A	12/7/2015	ND<100	FALSE
GWC-12A	6/14/2016	ND<100	FALSE

Acetone

GWC-12A	12/7/2016	ND<100	FALSE
GWC-12A	6/14/2017	ND<100	FALSE
GWC-12A	12/13/2017	ND<100	FALSE
GWC-12A	6/19/2018	ND<100	FALSE
GWC-12A	12/19/2018	ND<100	FALSE
GWC-12A	6/11/2019	ND<100	FALSE
GWC-12A	12/9/2019	ND<100	FALSE
GWC-12A	6/24/2020	ND<100	FALSE

GWC-6	12/9/2014	ND<100	FALSE
GWC-6	6/22/2015	ND<100	FALSE
GWC-6	12/8/2015	ND<100	FALSE
GWC-6	6/14/2016	ND<100	FALSE
GWC-6	12/8/2016	ND<100	FALSE
GWC-6	6/12/2017	ND<100	FALSE
GWC-6	12/13/2017	ND<100	FALSE
GWC-6	6/21/2018	ND<100	FALSE
GWC-6	12/19/2018	ND<100	FALSE
GWC-6	6/12/2019	ND<100	FALSE
GWC-6	12/10/2019	ND<100	FALSE
GWC-6	6/24/2020	ND<100	FALSE

GWC-16A	12/10/2014	ND<100	FALSE
GWC-16A	6/24/2015	ND<100	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>1300</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<100	FALSE
GWC-16A	12/7/2016	ND<100	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>1500</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<100	FALSE
GWC-16A	6/21/2018	ND<100	FALSE
GWC-16A	12/19/2018	ND<100	FALSE
GWC-16A	6/13/2019	ND<100	FALSE
GWC-16A	12/11/2019	ND<100	FALSE
GWC-16A	6/23/2020	ND<100	FALSE

GWC-14	12/10/2014	ND<100	FALSE
GWC-14	6/24/2015	ND<100	FALSE
GWC-14	12/9/2015	ND<100	FALSE
GWC-14	6/15/2016	ND<100	FALSE
GWC-14	6/13/2017	ND<100	FALSE
GWC-14	6/20/2018	ND<100	FALSE
GWC-14	6/11/2019	ND<100	FALSE
GWC-14	12/10/2019	ND<100	FALSE
GWC-14	6/24/2020	ND<100	FALSE

GWC-14A	12/10/2014	ND<100	FALSE
GWC-14A	6/23/2015	ND<100	FALSE
GWC-14A	12/9/2015	ND<100	FALSE
GWC-14A	6/15/2016	ND<100	FALSE
GWC-14A	12/8/2016	ND<100	FALSE
GWC-14A	6/13/2017	ND<100	FALSE
GWC-14A	12/12/2017	ND<100	FALSE
GWC-14A	6/20/2018	ND<100	FALSE

Acetone

GWC-14A	12/19/2018	ND<100	FALSE
GWC-14A	6/11/2019	ND<100	FALSE
GWC-14A	12/10/2019	ND<100	FALSE
GWC-14A	6/24/2020	ND<100	FALSE

GWC-14R	12/10/2014	ND<100	FALSE
GWC-14R	6/23/2015	ND<100	FALSE
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GWC-14R	6/23/2020	ND<100	FALSE

GWC-15	12/10/2014	ND<100	FALSE
GWC-15	6/23/2015	ND<100	FALSE
GWC-15	12/9/2015	ND<100	FALSE
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GWC-15	6/19/2018	ND<100	FALSE
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GWC-15	6/11/2019	ND<100	FALSE
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GWC-15	6/25/2020	ND<100	FALSE

GWC-17	12/10/2014	ND<100	FALSE
GWC-17	6/22/2015	ND<100	FALSE
GWC-17	12/8/2015	ND<100	FALSE
GWC-17	6/13/2016	ND<100	FALSE
GWC-17	6/14/2017	ND<100	FALSE
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GWC-17	6/23/2020	ND<100	FALSE

GWC-18	12/10/2014	ND<100	FALSE
GWC-18	6/22/2015	ND<100	FALSE
GWC-18	12/9/2015	ND<100	FALSE
GWC-18	6/13/2016	ND<100	FALSE
GWC-18	12/6/2016	ND<100	FALSE
GWC-18	6/14/2017	ND<100	FALSE
GWC-18	12/13/2017	ND<100	FALSE
GWC-18	6/19/2018	ND<100	FALSE
GWC-18	12/18/2018	ND<100	FALSE
GWC-18	6/11/2019	ND<100	FALSE

Acetone

GWC-18	12/9/2019	ND<100	FALSE
GWC-18	6/23/2020	ND<100	FALSE

GWC-19R	12/10/2014	ND<100	FALSE
GWC-19R	6/22/2015	ND<100	FALSE
GWC-19R	12/9/2015	ND<100	FALSE
GWC-19R	6/15/2016	ND<100	FALSE
GWC-19R	12/6/2016	ND<100	FALSE
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GWC-19R	6/19/2018	ND<100	FALSE
GWC-19R	12/18/2018	ND<100	FALSE
GWC-19R	6/11/2019	ND<100	FALSE
GWC-19R	12/9/2019	ND<100	FALSE
GWC-19R	6/23/2020	ND<100	FALSE

GWC-24	12/10/2014	ND<100	FALSE
GWC-24	6/22/2015	ND<100	FALSE
GWC-24	12/8/2015	ND<100	FALSE
GWC-24	6/13/2016	ND<100	FALSE
GWC-24	12/7/2016	ND<100	FALSE
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GWC-24	12/13/2017	ND<100	FALSE
GWC-24	6/19/2018	ND<100	FALSE
GWC-24	12/19/2018	ND<100	FALSE
GWC-24	6/11/2019	ND<100	FALSE
GWC-24	12/9/2019	ND<100	FALSE
GWC-24	6/24/2020	ND<100	FALSE

GWC-8	12/10/2014	ND<100	FALSE
GWC-8	6/23/2015	ND<100	FALSE
GWC-8	12/10/2015	ND<100	FALSE
GWC-8	6/15/2016	ND<100	FALSE
GWC-8	12/8/2016	ND<100	FALSE
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GWC-8	6/20/2018	ND<100	FALSE
GWC-8	12/19/2018	ND<100	FALSE
GWC-8	6/12/2019	ND<100	FALSE
GWC-8	12/11/2019	ND<100	FALSE
GWC-8	6/23/2020	ND<100	FALSE

GWC-8A	12/10/2014	ND<100	FALSE
GWC-8A	6/24/2015	ND<100	FALSE
GWC-8A	12/10/2015	ND<100	FALSE
GWC-8A	6/15/2016	ND<100	FALSE
GWC-8A	12/8/2016	ND<100	FALSE
GWC-8A	6/13/2017	ND<100	FALSE
GWC-8A	12/12/2017	ND<100	FALSE
GWC-8A	6/20/2018	ND<100	FALSE
GWC-8A	12/19/2018	ND<100	FALSE
GWC-8A	6/12/2019	ND<100	FALSE
GWC-8A	12/11/2019	ND<100	FALSE
GWC-8A	6/23/2020	ND<100	FALSE

## Acetone

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GWC-8R	12/10/2014	ND<100	FALSE
GWC-8R	6/23/2015	ND<100	FALSE
GWC-8R	12/10/2015	ND<100	FALSE
GWC-8R	6/15/2016	ND<100	FALSE
GWC-8R	12/8/2016	ND<100	FALSE
GWC-8R	6/13/2017	ND<100	FALSE
GWC-8R	12/12/2017	ND<100	FALSE
GWC-8R	6/20/2018	ND<100	FALSE
GWC-8R	12/19/2018	ND<100	FALSE
GWC-8R	6/12/2019	ND<100	FALSE
GWC-8R	12/11/2019	ND<100	FALSE
GWC-8R	6/23/2020	ND<100	FALSE

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GWC-13	12/11/2014	ND<100	FALSE
GWC-13	6/22/2015	ND<100	FALSE
GWC-13	12/7/2015	ND<100	FALSE
GWC-13	6/15/2016	ND<100	FALSE
GWC-13	12/7/2016	ND<100	FALSE
GWC-13	6/14/2017	ND<100	FALSE
GWC-13	12/12/2017	ND<100	FALSE
GWC-13	6/19/2018	ND<100	FALSE
GWC-13	12/19/2018	ND<100	FALSE
GWC-13	6/12/2019	ND<100	FALSE
GWC-13	12/11/2019	ND<100	FALSE
GWC-13	6/23/2020	ND<100	FALSE

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GWC-2	12/11/2014	ND<100	FALSE
GWC-2	6/24/2015	ND<100	FALSE
GWC-2	12/9/2015	ND<100	FALSE
GWC-2	6/14/2016	ND<100	FALSE
GWC-2	12/8/2016	ND<100	FALSE
GWC-2	6/15/2017	ND<100	FALSE
GWC-2	12/13/2017	ND<100	FALSE
GWC-2	6/20/2018	ND<100	FALSE
GWC-2	12/19/2018	ND<100	FALSE
GWC-2	6/12/2019	ND<100	FALSE
GWC-2	12/10/2019	ND<100	FALSE
GWC-2	6/22/2020	ND<100	FALSE

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GWC-3A	12/11/2014	ND<100	FALSE
GWC-3A	6/24/2015	ND<100	FALSE
GWC-3A	12/9/2015	ND<100	FALSE
GWC-3A	6/14/2016	ND<100	FALSE
GWC-3A	12/8/2016	ND<100	FALSE
GWC-3A	6/15/2017	ND<100	FALSE
GWC-3A	12/12/2017	ND<100	FALSE
GWC-3A	6/20/2018	ND<100	FALSE
GWC-3A	12/17/2018	ND<100	FALSE
GWC-3A	6/11/2019	ND<100	FALSE
GWC-3A	12/10/2019	ND<100	FALSE
GWC-3A	6/24/2020	ND<100	FALSE

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## Acetone

GWC-4	12/11/2014	ND<100	FALSE
GWC-4	6/24/2015	ND<100	FALSE
GWC-4	12/9/2015	ND<100	FALSE
GWC-4	6/16/2016	ND<100	FALSE
GWC-4	12/7/2016	ND<100	FALSE
GWC-4	6/20/2018	ND<100	FALSE
GWC-4	6/23/2020	ND<100	FALSE

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GWC-4A	12/11/2014	ND<100	FALSE
GWC-4A	6/24/2015	ND<100	FALSE
GWC-4A	12/9/2015	ND<100	FALSE
GWC-4A	6/16/2016	ND<100	FALSE
GWC-4A	12/7/2016	ND<100	FALSE
GWC-4A	6/13/2017	ND<100	FALSE
GWC-4A	12/12/2017	ND<100	FALSE
GWC-4A	6/20/2018	ND<100	FALSE
GWC-4A	12/17/2018	ND<100	FALSE
GWC-4A	6/11/2019	ND<100	FALSE
GWC-4A	12/11/2019	ND<100	FALSE
GWC-4A	6/23/2020	ND<100	FALSE

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GWC-9	12/11/2014	ND<100	FALSE
GWC-9	6/22/2015	ND<100	FALSE
GWC-9	12/8/2015	ND<100	FALSE
GWC-9	6/14/2016	ND<100	FALSE
GWC-9	12/8/2016	ND<100	FALSE
GWC-9	6/15/2017	ND<100	FALSE
GWC-9	12/13/2017	ND<100	FALSE
GWC-9	6/20/2018	ND<100	FALSE
GWC-9	12/18/2018	ND<100	FALSE
GWC-9	6/12/2019	ND<100	FALSE
GWC-9	12/12/2019	ND<100	FALSE
GWC-9	6/24/2020	ND<100	FALSE

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GWC-3	6/24/2015	ND<100	FALSE
GWC-3	12/9/2015	ND<100	FALSE
GWC-3	6/14/2016	ND<100	FALSE
GWC-3	12/8/2016	ND<100	FALSE
GWC-3	6/15/2017	ND<100	FALSE
GWC-3	6/21/2018	ND<100	FALSE
GWC-3	12/17/2018	ND<100	FALSE
GWC-3	6/11/2019	ND<100	FALSE
GWC-3	12/10/2019	ND<100	FALSE
GWC-3	6/24/2020	ND<100	FALSE

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## Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.4343%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE

GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE

GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
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GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE

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GWC-23A	12/8/2014	ND<2	FALSE
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GWC-23A	12/6/2016	ND<2	FALSE
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GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE

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GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
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GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE

GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
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GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE

GWC-10	12/9/2014	ND<2	FALSE
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GWC-10	12/7/2015	ND<2	FALSE

## Benzene

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
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GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
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GWC-10A	12/8/2016	ND<2	FALSE
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GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
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GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

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GWC-11	12/7/2016	ND<2	FALSE
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GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
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GWC-12	12/7/2016	ND<2	FALSE
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GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
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GWC-12A	6/14/2016	ND<2	FALSE

## Benzene

GWC-12A	12/7/2016	ND<2	FALSE
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GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

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GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
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GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
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GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>2.8</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	ND<2	FALSE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
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GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
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GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>2.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/23/2015</b>	<b>2.5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/9/2015</b>	<b>2.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/15/2016</b>	<b>2.5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>2.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>2.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>2.8</b>	<b>TRUE</b>

## Benzene

GWC-14A	12/19/2018	2.5	TRUE
GWC-14A	6/11/2019	2.1	TRUE
GWC-14A	12/10/2019	2.6	TRUE
GWC-14A	6/24/2020	2.5	TRUE

GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
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GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE

GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	3.2	TRUE
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GWC-15	6/11/2019	3.1	TRUE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	3.6	TRUE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
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GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE

## Benzene

GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	3.1	TRUE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	2.7	TRUE
GWC-8A	6/15/2016	2.2	TRUE
GWC-8A	12/8/2016	3.2	TRUE
GWC-8A	6/13/2017	2.3	TRUE
GWC-8A	12/12/2017	3.8	TRUE
GWC-8A	6/20/2018	2.7	TRUE
GWC-8A	12/19/2018	3.3	TRUE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	2.8	TRUE
GWC-8A	6/23/2020	ND<2	FALSE



## Benzene

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<b>GWC-8R</b>	<b>12/10/2014</b>	<b>2.2</b>	<b>TRUE</b>
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

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GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

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GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

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## Benzene

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

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GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

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Chloroethane

**Non-Parametric Tolerance Interval**

**Parameter: Chloroethane**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.7071%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE

GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE

GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE

GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

Chloroethane

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE

GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE

GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE

GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE

GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

## Chloroethane

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
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GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
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GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

## Chloroethane

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
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GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>6.3</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>3.3</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>6.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/23/2015</b>	<b>8.2</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/9/2015</b>	<b>6.7</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/15/2016</b>	<b>12</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>6.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>5.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>7.7</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>8.5</b>	<b>TRUE</b>

## Chloroethane

<b>GWC-14A</b>	<b>12/19/2018</b>	<b>5.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/11/2019</b>	<b>4.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/10/2019</b>	<b>3.6</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>3.3</b>	<b>TRUE</b>

GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE

GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
<b>GWC-15</b>	<b>12/8/2016</b>	<b>2.8</b>	<b>TRUE</b>
GWC-15	6/14/2017	ND<2	FALSE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
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GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE

## Chloroethane

GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
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GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE

## Chloroethane

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<b>GWC-8R</b>	<b>12/10/2014</b>	<b>2.7</b>	<b>TRUE</b>
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
<b>GWC-8R</b>	<b>12/8/2016</b>	<b>2.2</b>	<b>TRUE</b>
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

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GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

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GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

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## Chloroethane

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

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GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

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cis-1,2-Dichloroethene

### Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70.9596%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE

GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE

GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE

GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE

GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE

GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE

GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE

GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

cis-1,2-Dichloroethene

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	4.9	TRUE
GWC-16A	6/24/2015	4.4	TRUE
GWC-16A	12/9/2015	82	TRUE
GWC-16A	6/16/2016	3.4	TRUE
GWC-16A	12/7/2016	3.5	TRUE
GWC-16A	6/14/2017	39	TRUE
GWC-16A	12/13/2017	2.9	TRUE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	2.5	TRUE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	2.1	TRUE
GWC-16A	6/23/2020	2.2	TRUE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

GWC-14A	12/10/2014	30	TRUE
GWC-14A	6/23/2015	32	TRUE
GWC-14A	12/9/2015	38	TRUE
GWC-14A	6/15/2016	42	TRUE
GWC-14A	12/8/2016	33	TRUE
GWC-14A	6/13/2017	64	TRUE
GWC-14A	12/12/2017	62	TRUE
GWC-14A	6/20/2018	71	TRUE

cis-1,2-Dichloroethene

GWC-14A	12/19/2018	53	TRUE
GWC-14A	6/11/2019	46	TRUE
GWC-14A	12/10/2019	65	TRUE
GWC-14A	6/24/2020	62	TRUE

GWC-14R	12/10/2014	27	TRUE
GWC-14R	6/23/2015	22	TRUE
GWC-14R	12/10/2015	20	TRUE
GWC-14R	6/15/2016	25	TRUE
GWC-14R	12/8/2016	19	TRUE
GWC-14R	6/13/2017	26	TRUE
GWC-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	24	TRUE
GWC-14R	12/19/2018	17	TRUE
GWC-14R	6/12/2019	21	TRUE
GWC-14R	12/10/2019	19	TRUE
GWC-14R	6/23/2020	26	TRUE

GWC-15	12/10/2014	13	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	17	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	110	TRUE
GWC-15	6/14/2017	10	TRUE
GWC-15	12/13/2017	11	TRUE
GWC-15	6/19/2018	2	FALSE
GWC-15	12/19/2018	2.9	TRUE
GWC-15	6/11/2019	97	TRUE
GWC-15	12/10/2019	51	TRUE
GWC-15	6/25/2020	110	TRUE

GWC-17	12/10/2014	24	TRUE
GWC-17	6/22/2015	10	TRUE
GWC-17	12/8/2015	45	TRUE
GWC-17	6/13/2016	41	TRUE
GWC-17	6/14/2017	8.4	TRUE
GWC-17	12/12/2017	17	TRUE
GWC-17	6/19/2018	4.7	TRUE
GWC-17	12/19/2018	8.7	TRUE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	15	TRUE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	16	TRUE
GWC-18	6/22/2015	15	TRUE
GWC-18	12/9/2015	14	TRUE
GWC-18	6/13/2016	3.6	TRUE
GWC-18	12/6/2016	16	TRUE
GWC-18	6/14/2017	16	TRUE
GWC-18	12/13/2017	14	TRUE
GWC-18	6/19/2018	7.7	TRUE
GWC-18	12/18/2018	12	TRUE
GWC-18	6/11/2019	14	TRUE

cis-1,2-Dichloroethene

GWC-18	12/9/2019	30	TRUE
GWC-18	6/23/2020	10	TRUE

GWC-19R	12/10/2014	11	TRUE
GWC-19R	6/22/2015	6.8	TRUE
GWC-19R	12/9/2015	4.7	TRUE
GWC-19R	6/15/2016	9.3	TRUE
GWC-19R	12/6/2016	13	TRUE
GWC-19R	6/14/2017	2.4	TRUE
GWC-19R	12/13/2017	4.7	TRUE
GWC-19R	6/19/2018	5.1	TRUE
GWC-19R	12/18/2018	2.9	TRUE
GWC-19R	6/11/2019	7.7	TRUE
GWC-19R	12/9/2019	11	TRUE
GWC-19R	6/23/2020	7.2	TRUE

GWC-24	12/10/2014	7.9	TRUE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	2.4	TRUE
GWC-24	6/13/2016	5.2	TRUE
GWC-24	12/7/2016	5.4	TRUE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	2.2	TRUE
GWC-24	12/19/2018	3.7	TRUE
GWC-24	6/11/2019	4.4	TRUE
GWC-24	12/9/2019	6.1	TRUE
GWC-24	6/24/2020	3	TRUE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	3.1	TRUE
GWC-8	12/12/2017	7.6	TRUE
GWC-8	6/20/2018	2.6	TRUE
GWC-8	12/19/2018	4.3	TRUE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	2.8	TRUE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	33	TRUE
GWC-8A	6/24/2015	19	TRUE
GWC-8A	12/10/2015	29	TRUE
GWC-8A	6/15/2016	25	TRUE
GWC-8A	12/8/2016	32	TRUE
GWC-8A	6/13/2017	27	TRUE
GWC-8A	12/12/2017	37	TRUE
GWC-8A	6/20/2018	32	TRUE
GWC-8A	12/19/2018	31	TRUE
GWC-8A	6/12/2019	22	TRUE
GWC-8A	12/11/2019	33	TRUE
GWC-8A	6/23/2020	23	TRUE



cis-1,2-Dichloroethene

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GWC-8R	12/10/2014	19	TRUE
GWC-8R	6/23/2015	19	TRUE
GWC-8R	12/10/2015	19	TRUE
GWC-8R	6/15/2016	21	TRUE
GWC-8R	12/8/2016	17	TRUE
GWC-8R	6/13/2017	23	TRUE
GWC-8R	12/12/2017	21	TRUE
GWC-8R	6/20/2018	24	TRUE
GWC-8R	12/19/2018	18	TRUE
GWC-8R	6/12/2019	21	TRUE
GWC-8R	12/11/2019	24	TRUE
GWC-8R	6/23/2020	27	TRUE

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GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

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GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

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cis-1,2-Dichloroethene

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

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GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

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Tetrachloroethene

**Non-Parametric Tolerance Interval**

**Parameter: Tetrachloroethene**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 90.9091%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
<hr/>			
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
<hr/>			
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
<hr/>			
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

Tetrachloroethene

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
<hr/>			
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
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GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
<hr/>			
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
<hr/>			
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

## Tetrachloroethene

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

## Tetrachloroethene

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>3.7</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>6.3</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

GWC-14A	12/10/2014	ND<2	FALSE
GWC-14A	6/23/2015	ND<2	FALSE
GWC-14A	12/9/2015	ND<2	FALSE
GWC-14A	6/15/2016	ND<2	FALSE
GWC-14A	12/8/2016	ND<2	FALSE
GWC-14A	6/13/2017	ND<2	FALSE
GWC-14A	12/12/2017	ND<2	FALSE
GWC-14A	6/20/2018	ND<2	FALSE

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GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE
GWC-14A	6/24/2020	ND<2	FALSE

<b>GWC-14R</b>	<b>12/10/2014</b>	<b>4.4</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/23/2015</b>	<b>3.5</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/10/2015</b>	<b>2.8</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/15/2016</b>	<b>2.2</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>12/8/2016</b>	<b>2.5</b>	<b>TRUE</b>
<b>GWC-14R</b>	<b>6/13/2017</b>	<b>3.2</b>	<b>TRUE</b>
GWC-14R	12/12/2017	2	FALSE
GWC-14R	6/20/2018	2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE

<b>GWC-15</b>	<b>12/10/2014</b>	<b>8.5</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/23/2015</b>	<b>11</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/9/2015</b>	<b>6.1</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/15/2016</b>	<b>9</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/8/2016</b>	<b>16</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/14/2017</b>	<b>7.3</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/13/2017</b>	<b>2.7</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/19/2018</b>	<b>5</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/19/2018</b>	<b>9.7</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/11/2019</b>	<b>50</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/10/2019</b>	<b>31</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/25/2020</b>	<b>48</b>	<b>TRUE</b>

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

<b>GWC-18</b>	<b>12/10/2014</b>	<b>14</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/22/2015</b>	<b>10</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/9/2015</b>	<b>9</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/13/2016</b>	<b>4</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/6/2016</b>	<b>6.6</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/14/2017</b>	<b>4.1</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/13/2017</b>	<b>6.5</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/19/2018</b>	<b>4.6</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/18/2018</b>	<b>7</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/11/2019</b>	<b>3.9</b>	<b>TRUE</b>

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<b>GWC-18</b>	<b>12/9/2019</b>	<b>7.4</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/23/2020</b>	<b>5.7</b>	<b>TRUE</b>

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE

## Tetrachloroethene

GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
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GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

## Tetrachloroethene

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

## Non-Parametric Tolerance Interval

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
<hr/>			
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
<hr/>			
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
<hr/>			
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
<hr/>			
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
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GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
<hr/>			
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
<hr/>			
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

## Toluene

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

## Toluene

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>4.3</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>3.2</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

GWC-14A	12/10/2014	ND<2	FALSE
GWC-14A	6/23/2015	ND<2	FALSE
GWC-14A	12/9/2015	ND<2	FALSE
GWC-14A	6/15/2016	ND<2	FALSE
GWC-14A	12/8/2016	ND<2	FALSE
GWC-14A	6/13/2017	ND<2	FALSE
GWC-14A	12/12/2017	ND<2	FALSE
GWC-14A	6/20/2018	ND<2	FALSE

## Toluene

GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	ND<2	FALSE
GWC-14A	6/24/2020	ND<2	FALSE

GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE

GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	ND<2	FALSE
GWC-15	6/14/2017	ND<2	FALSE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE

## Toluene

GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE



## Toluene

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GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

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GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

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GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

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## Toluene

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

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GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

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Trichloroethene

### Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 88.3838%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE

GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE

GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE

GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

Trichloroethene

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE

GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE

GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE

GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE

GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

## Trichloroethene

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

## Trichloroethene

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>7</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>3.9</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/23/2015</b>	<b>5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/9/2015</b>	<b>5.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/15/2016</b>	<b>4.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>6.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>3.5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>3.8</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>2.1</b>	<b>TRUE</b>

## Trichloroethene

GWC-14A	12/19/2018	2.2	TRUE
GWC-14A	6/11/2019	ND<2	FALSE
GWC-14A	12/10/2019	3.1	TRUE
GWC-14A	6/24/2020	ND<2	FALSE

GWC-14R	12/10/2014	8.6	TRUE
GWC-14R	6/23/2015	8.2	TRUE
GWC-14R	12/10/2015	6.7	TRUE
GWC-14R	6/15/2016	6.1	TRUE
GWC-14R	12/8/2016	5.4	TRUE
GWC-14R	6/13/2017	6.8	TRUE
GWC-14R	12/12/2017	4.8	TRUE
GWC-14R	6/20/2018	5.2	TRUE
GWC-14R	12/19/2018	4.9	TRUE
GWC-14R	6/12/2019	4.7	TRUE
GWC-14R	12/10/2019	4.3	TRUE
GWC-14R	6/23/2020	4.3	TRUE

GWC-15	12/10/2014	4.9	TRUE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	2.4	TRUE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	73	TRUE
GWC-15	6/14/2017	2.1	TRUE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	3.7	TRUE
GWC-15	6/11/2019	70	TRUE
GWC-15	12/10/2019	55	TRUE
GWC-15	6/25/2020	90	TRUE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	4.5	TRUE
GWC-18	6/22/2015	3.5	TRUE
GWC-18	12/9/2015	2.7	TRUE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	2.3	TRUE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	2.3	TRUE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	2.1	TRUE
GWC-18	6/11/2019	ND<2	FALSE

## Trichloroethene

GWC-18	12/9/2019	2.6	TRUE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	2.1	TRUE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE

## Trichloroethene

<b>GWC-8R</b>	<b>12/10/2014</b>	<b>3.8</b>	<b>TRUE</b>
<b>GWC-8R</b>	<b>6/23/2015</b>	<b>2.2</b>	<b>TRUE</b>
<b>GWC-8R</b>	<b>12/10/2015</b>	<b>2.9</b>	<b>TRUE</b>
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
<b>GWC-8R</b>	<b>6/13/2017</b>	<b>2.9</b>	<b>TRUE</b>
GWC-8R	12/12/2017	ND<2	FALSE
<b>GWC-8R</b>	<b>6/20/2018</b>	<b>5.3</b>	<b>TRUE</b>
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

## Trichloroethene

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

Vinyl chloride

### Non-Parametric Tolerance Interval

Parameter: Vinyl chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.2121%

Background measurements (n) = 24

Maximum Background Concentration = 2

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE
GWA-1A	6/10/2019	ND<2	FALSE
GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
<hr/>			
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWA-3	12/10/2019	ND<2	FALSE
GWA-3	6/22/2020	ND<2	FALSE
<hr/>			
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
<hr/>			
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE

Vinyl chloride

GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23	12/11/2019	ND<2	FALSE
GWC-23	6/24/2020	ND<2	FALSE
<hr/>			
GWC-23A	12/8/2014	ND<2	FALSE
GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-23A	12/11/2019	ND<2	FALSE
GWC-23A	6/24/2020	ND<2	FALSE
<hr/>			
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE
GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
<hr/>			
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
<hr/>			
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE

Vinyl chloride

GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
GWC-10	12/12/2017	ND<2	FALSE
GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
GWC-10	6/10/2019	ND<2	FALSE
GWC-10	12/12/2019	ND<2	FALSE
GWC-10	6/24/2020	ND<2	FALSE

GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-10A	12/12/2019	ND<2	FALSE
GWC-10A	6/24/2020	ND<2	FALSE

GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE

GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12	12/9/2019	ND<2	FALSE
GWC-12	6/24/2020	ND<2	FALSE

GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE

Vinyl chloride

GWC-12A	12/7/2016	ND<2	FALSE
GWC-12A	6/14/2017	ND<2	FALSE
GWC-12A	12/13/2017	ND<2	FALSE
GWC-12A	6/19/2018	ND<2	FALSE
GWC-12A	12/19/2018	ND<2	FALSE
GWC-12A	6/11/2019	ND<2	FALSE
GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE

GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-6	12/10/2019	ND<2	FALSE
GWC-6	6/24/2020	ND<2	FALSE

GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
<b>GWC-16A</b>	<b>12/9/2015</b>	<b>6</b>	<b>TRUE</b>
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
<b>GWC-16A</b>	<b>6/14/2017</b>	<b>4.8</b>	<b>TRUE</b>
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE
GWC-16A	12/11/2019	ND<2	FALSE
GWC-16A	6/23/2020	ND<2	FALSE

GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-14	12/10/2019	ND<2	FALSE
GWC-14	6/24/2020	ND<2	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>5.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/23/2015</b>	<b>6.3</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/9/2015</b>	<b>6.1</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/15/2016</b>	<b>8.4</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>5.7</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>3.5</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/12/2017</b>	<b>6</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/20/2018</b>	<b>6.2</b>	<b>TRUE</b>

Vinyl chloride

GWC-14A	12/19/2018	4.9	TRUE
GWC-14A	6/11/2019	4.3	TRUE
GWC-14A	12/10/2019	4	TRUE
GWC-14A	6/24/2020	7.5	TRUE

GWC-14R	12/10/2014	ND<2	FALSE
GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
GWC-14R	6/12/2019	ND<2	FALSE
GWC-14R	12/10/2019	ND<2	FALSE
GWC-14R	6/23/2020	ND<2	FALSE

GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	12/8/2016	2.3	TRUE
GWC-15	6/14/2017	ND<2	FALSE
GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-15	12/10/2019	ND<2	FALSE
GWC-15	6/25/2020	ND<2	FALSE

GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-17	12/10/2019	ND<2	FALSE
GWC-17	6/23/2020	ND<2	FALSE

GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE

Vinyl chloride

GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE

GWC-19R	12/10/2014	ND<2	FALSE
GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE
GWC-19R	12/9/2019	ND<2	FALSE
GWC-19R	6/23/2020	ND<2	FALSE

GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-24	12/9/2019	ND<2	FALSE
GWC-24	6/24/2020	ND<2	FALSE

GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE
GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE
GWC-8	12/11/2019	ND<2	FALSE
GWC-8	6/23/2020	ND<2	FALSE

GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE
GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE



## Vinyl chloride

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GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE
GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE

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GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-13	12/11/2019	ND<2	FALSE
GWC-13	6/23/2020	ND<2	FALSE

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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE

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GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-3A	12/10/2019	ND<2	FALSE
GWC-3A	6/24/2020	ND<2	FALSE

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## Vinyl chloride

GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE

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GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE
GWC-4A	12/11/2019	ND<2	FALSE
GWC-4A	6/23/2020	ND<2	FALSE

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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE

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GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3	12/10/2019	ND<2	FALSE
GWC-3	6/24/2020	ND<2	FALSE

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Total Barium

**Non-Parametric Tolerance Interval**

**Parameter: Total Barium**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 32.133%

Background measurements (n) = 24

Maximum Background Concentration = 39.5

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	38	FALSE
GWA-1A	6/23/2015	38	FALSE
GWA-1A	12/8/2015	34	FALSE
GWA-1A	6/14/2016	35	FALSE
GWA-1A	12/7/2016	33	FALSE
GWA-1A	6/12/2017	36	FALSE
GWA-1A	12/13/2017	33	FALSE
GWA-1A	6/20/2018	30	FALSE
GWA-1A	12/18/2018	32	FALSE
<b>GWA-1A</b>	<b>6/10/2019</b>	<b>41</b>	<b>TRUE</b>
GWA-1A	12/9/2019	30	FALSE
GWA-1A	6/23/2020	30.3	FALSE

GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE
GWC-23A	6/24/2020	ND<20	FALSE

GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	22.9	FALSE
GWA-3	6/23/2020	ND<20	FALSE

GWC-22	12/9/2014	23	FALSE
GWC-22	6/23/2015	24	FALSE

Total Barium

GWC-22	12/10/2015	24	FALSE
GWC-22	6/16/2016	25	FALSE
GWC-22	12/7/2016	23	FALSE
GWC-22	6/15/2017	28	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	24	FALSE
GWC-22	12/19/2018	21	FALSE
GWC-22	6/13/2019	21	FALSE
GWC-22	12/12/2019	21.5	FALSE
GWC-22	6/24/2020	22.1	FALSE

GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE

GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE

<b>GWC-7</b>	<b>12/9/2014</b>	<b>55</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/25/2015</b>	<b>54</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/8/2015</b>	<b>47</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/16/2016</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/9/2016</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/13/2017</b>	<b>52</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/13/2017</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/20/2018</b>	<b>49</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/19/2018</b>	<b>51</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>6/13/2019</b>	<b>48</b>	<b>TRUE</b>
<b>GWC-7</b>	<b>12/12/2019</b>	<b>49.9</b>	<b>TRUE</b>
GWC-7	6/25/2020	36.4	FALSE

GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	22	FALSE
GWC-10	12/8/2015	ND<20	FALSE

Total Barium

GWC-10	6/15/2016	21	FALSE
GWC-10	12/9/2016	20	FALSE
GWC-10	6/16/2017	20	FALSE
<b>GWC-10</b>	<b>12/13/2017</b>	<b>48</b>	<b>TRUE</b>
GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	22	FALSE
GWC-10	12/13/2019	ND<20	FALSE
GWC-10	6/25/2020	ND<20	FALSE

GWC-10A	12/10/2014	27	FALSE
GWC-10A	6/23/2015	27	FALSE
GWC-10A	12/8/2015	27	FALSE
GWC-10A	6/15/2016	29	FALSE
GWC-10A	12/9/2016	31	FALSE
GWC-10A	6/16/2017	31	FALSE
GWC-10A	12/13/2017	32	FALSE
GWC-10A	6/20/2018	34	FALSE
GWC-10A	12/18/2018	35	FALSE
GWC-10A	6/11/2019	33	FALSE
GWC-10A	12/13/2019	35.2	FALSE
GWC-10A	6/25/2020	29.6	FALSE

GWC-11	12/10/2014	25	FALSE
GWC-11	6/23/2015	28	FALSE
GWC-11	12/8/2015	27	FALSE
GWC-11	6/15/2016	24	FALSE
GWC-11	12/8/2016	22	FALSE
GWC-11	6/15/2017	24	FALSE
<b>GWC-11</b>	<b>12/14/2017</b>	<b>42</b>	<b>TRUE</b>
GWC-11	6/20/2018	21	FALSE
GWC-11	12/20/2018	ND<20	FALSE
<b>GWC-11</b>	<b>6/13/2019</b>	<b>40</b>	<b>TRUE</b>
GWC-11	12/13/2019	35.9	FALSE
GWC-11	6/25/2020	25.9	FALSE

GWC-12	12/10/2014	21	FALSE
GWC-12	6/23/2015	26	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	34	FALSE
GWC-12	6/12/2019	20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE

GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE

Total Barium

GWC-12A	12/8/2016	ND<20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>220</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2015</b>	<b>210</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/10/2015</b>	<b>200</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2016</b>	<b>200</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>220</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>210</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/13/2017</b>	<b>180</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>190</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>180</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>170</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/11/2019</b>	<b>170</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>171</b>	<b>TRUE</b>

GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	37	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE

GWC-16A	12/11/2014	32	FALSE
<b>GWC-16A</b>	<b>6/24/2015</b>	<b>41</b>	<b>TRUE</b>
<b>GWC-16A</b>	<b>12/10/2015</b>	<b>260</b>	<b>TRUE</b>
GWC-16A	6/17/2016	29	FALSE
GWC-16A	12/8/2016	35	FALSE
<b>GWC-16A</b>	<b>6/15/2017</b>	<b>170</b>	<b>TRUE</b>
GWC-16A	12/14/2017	29	FALSE
GWC-16A	6/21/2018	34	FALSE
GWC-16A	12/20/2018	24	FALSE
GWC-16A	6/13/2019	26	FALSE
GWC-16A	12/12/2019	26.7	FALSE
GWC-16A	6/23/2020	23.6	FALSE

<b>GWC-14</b>	<b>12/11/2014</b>	<b>52</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/24/2015</b>	<b>58</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>12/10/2015</b>	<b>62</b>	<b>TRUE</b>
GWC-14	6/15/2016	26	FALSE
GWC-14	6/21/2018	35	FALSE
GWC-14	6/12/2019	35	FALSE

Total Barium

GWC-14	12/11/2019	41.2	TRUE
GWC-14	6/25/2020	ND<20	FALSE
GWC-15	12/11/2014	63	TRUE
GWC-15	6/24/2015	87	TRUE
GWC-15	12/9/2015	94	TRUE
GWC-15	6/16/2016	61	TRUE
GWC-15	12/8/2016	60	TRUE
GWC-15	6/14/2017	120	TRUE
GWC-15	12/14/2017	99	TRUE
GWC-15	6/20/2018	98	TRUE
GWC-15	12/19/2018	58	TRUE
GWC-15	6/11/2019	60	TRUE
GWC-15	12/10/2019	42.3	TRUE
GWC-15	6/25/2020	62.7	TRUE
GWC-17	12/11/2014	65	TRUE
GWC-17	6/23/2015	43	TRUE
GWC-17	12/8/2015	41	TRUE
GWC-17	6/14/2016	38	FALSE
GWC-17	6/15/2017	45	TRUE
GWC-17	12/13/2017	35	FALSE
GWC-17	6/20/2018	34	FALSE
GWC-17	12/20/2018	69	TRUE
GWC-17	6/13/2019	43	TRUE
GWC-17	12/11/2019	37.1	FALSE
GWC-17	6/24/2020	30.9	FALSE
GWC-18	12/11/2014	160	TRUE
GWC-18	6/23/2015	220	TRUE
GWC-18	12/10/2015	140	TRUE
GWC-18	6/14/2016	250	TRUE
GWC-18	12/7/2016	180	TRUE
GWC-18	6/15/2017	180	TRUE
GWC-18	12/14/2017	150	TRUE
GWC-18	6/20/2018	280	TRUE
GWC-18	12/19/2018	140	TRUE
GWC-18	6/12/2019	230	TRUE
GWC-18	12/10/2019	181	TRUE
GWC-18	6/24/2020	168	TRUE
GWC-19R	12/11/2014	120	TRUE
GWC-19R	6/23/2015	94	TRUE
GWC-19R	12/10/2015	100	TRUE
GWC-19R	6/16/2016	93	TRUE
GWC-19R	12/7/2016	130	TRUE
GWC-19R	6/15/2017	97	TRUE
GWC-19R	12/14/2017	120	TRUE
GWC-19R	6/20/2018	81	TRUE
GWC-19R	12/19/2018	160	TRUE
GWC-19R	6/12/2019	97	TRUE
GWC-19R	12/10/2019	89.2	TRUE
GWC-19R	6/24/2020	83	TRUE

Total Barium

GWC-8	12/11/2014	25	FALSE
GWC-8	6/24/2015	20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	22	FALSE
GWC-8	12/9/2016	22	FALSE
GWC-8	12/13/2017	23	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	30	FALSE
GWC-8	12/12/2019	28.6	FALSE
GWC-8	6/24/2020	52.4	TRUE
GWC-8A	12/11/2014	43	TRUE
GWC-8A	6/24/2015	50	TRUE
GWC-8A	12/10/2015	41	TRUE
GWC-8A	6/16/2016	40	TRUE
GWC-8A	12/9/2016	55	TRUE
GWC-8A	6/14/2017	66	TRUE
GWC-8A	12/13/2017	42	TRUE
GWC-8A	6/21/2018	51	TRUE
GWC-8A	12/20/2018	55	TRUE
GWC-8A	6/13/2019	33	FALSE
GWC-8A	12/12/2019	56	TRUE
GWC-8A	6/24/2020	43.9	TRUE
GWC-13	12/12/2014	31	FALSE
GWC-13	6/23/2015	37	FALSE
GWC-13	12/8/2015	34	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	36	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	32.7	FALSE
GWC-13	6/24/2020	ND<20	FALSE
GWC-2	12/12/2014	22	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	6/23/2020	27.5	FALSE
GWC-3A	12/12/2014	40	TRUE
GWC-3A	6/25/2015	39	FALSE

Total Barium

<b>GWC-3A</b>	<b>12/10/2015</b>	<b>40</b>	<b>TRUE</b>
GWC-3A	6/15/2016	38	FALSE
<b>GWC-3A</b>	<b>12/09/2016</b>	<b>43</b>	<b>TRUE</b>
<b>GWC-3A</b>	<b>6/16/2017</b>	<b>40</b>	<b>TRUE</b>
GWC-3A	12/13/2017	38	FALSE
GWC-3A	6/21/2018	39	FALSE
GWC-3A	12/18/2018	38	FALSE
<b>GWC-3A</b>	<b>6/12/2019</b>	<b>46</b>	<b>TRUE</b>
<b>GWC-3A</b>	<b>12/11/2019</b>	<b>40.7</b>	<b>TRUE</b>
GWC-3A	6/25/2020	37.1	FALSE

GWC-4	12/12/2014	24	FALSE
GWC-4	6/25/2015	24	FALSE
GWC-4	12/10/2015	23	FALSE
GWC-4	6/17/2016	24	FALSE
GWC-4	12/8/2016	25	FALSE
GWC-4	6/21/2018	20	FALSE
GWC-4	6/24/2020	25.6	FALSE

<b>GWC-4A</b>	<b>12/12/2014</b>	<b>45</b>	<b>TRUE</b>
GWC-4A	6/25/2015	22	FALSE
GWC-4A	12/10/2015	39	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
<b>GWC-4A</b>	<b>12/8/2016</b>	<b>59</b>	<b>TRUE</b>
GWC-4A	6/14/2017	33	FALSE
<b>GWC-4A</b>	<b>12/13/2017</b>	<b>81</b>	<b>TRUE</b>
GWC-4A	6/21/2018	22	FALSE
GWC-4A	12/18/2018	25	FALSE
<b>GWC-4A</b>	<b>6/12/2019</b>	<b>74</b>	<b>TRUE</b>
GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	29.9	FALSE

<b>GWC-9</b>	<b>12/12/2014</b>	<b>59</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/23/2015</b>	<b>110</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/9/2015</b>	<b>52</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/15/2016</b>	<b>80</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/9/2016</b>	<b>67</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/16/2017</b>	<b>58</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/14/2017</b>	<b>54</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/21/2018</b>	<b>73</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/19/2018</b>	<b>53</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/13/2019</b>	<b>80</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/13/2019</b>	<b>67.9</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/25/2020</b>	<b>78.5</b>	<b>TRUE</b>

GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	27	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	20	FALSE
GWC-24	12/10/2019	27.4	FALSE
GWC-24	6/25/2020	25.8	FALSE

Total Barium

GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
GWC-3	6/25/2020	ND<20	FALSE

Total Chromium

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.615%

Background measurements (n) = 24

Maximum Background Concentration = 10

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<10	FALSE
GWA-1A	6/23/2015	ND<10	FALSE
GWA-1A	12/8/2015	ND<10	FALSE
GWA-1A	6/14/2016	ND<10	FALSE
GWA-1A	12/7/2016	ND<10	FALSE
GWA-1A	6/12/2017	ND<10	FALSE
GWA-1A	12/13/2017	ND<10	FALSE
GWA-1A	6/20/2018	ND<10	FALSE
GWA-1A	12/18/2018	ND<10	FALSE
GWA-1A	6/10/2019	ND<10	FALSE
GWA-1A	12/9/2019	ND<10	FALSE
GWA-1A	6/23/2020	ND<10	FALSE
<hr/>			
GWC-23A	12/8/2014	ND<10	FALSE
GWC-23A	6/23/2015	ND<10	FALSE
GWC-23A	12/9/2015	ND<10	FALSE
GWC-23A	6/15/2016	ND<10	FALSE
GWC-23A	12/7/2016	ND<10	FALSE
GWC-23A	6/15/2017	ND<10	FALSE
GWC-23A	12/12/2017	ND<10	FALSE
GWC-23A	6/19/2018	ND<10	FALSE
GWC-23A	12/19/2018	ND<10	FALSE
GWC-23A	6/13/2019	ND<10	FALSE
GWC-23A	12/12/2019	ND<10	FALSE
GWC-23A	6/24/2020	ND<10	FALSE
<hr/>			
GWA-3	12/9/2014	ND<10	FALSE
GWA-3	6/23/2015	ND<10	FALSE
GWA-3	12/8/2015	ND<10	FALSE
GWA-3	6/14/2016	ND<10	FALSE
GWA-3	12/9/2016	ND<10	FALSE
GWA-3	6/15/2017	ND<10	FALSE
GWA-3	12/12/2017	ND<10	FALSE
GWA-3	6/19/2018	ND<10	FALSE
GWA-3	12/18/2018	ND<10	FALSE
GWA-3	6/12/2019	ND<10	FALSE
GWA-3	12/11/2019	ND<10	FALSE
GWA-3	6/23/2020	ND<10	FALSE
<hr/>			
GWC-22	12/9/2014	ND<10	FALSE
GWC-22	6/23/2015	ND<10	FALSE

Total Chromium

GWC-22	12/10/2015	ND<10	FALSE
GWC-22	6/16/2016	ND<10	FALSE
GWC-22	12/7/2016	ND<10	FALSE
GWC-22	6/15/2017	ND<10	FALSE
GWC-22	12/12/2017	ND<10	FALSE
GWC-22	6/20/2018	ND<10	FALSE
GWC-22	12/19/2018	ND<10	FALSE
GWC-22	6/13/2019	ND<10	FALSE
GWC-22	12/12/2019	ND<10	FALSE
GWC-22	6/24/2020	ND<10	FALSE

GWC-23	12/9/2014	ND<10	FALSE
GWC-23	6/23/2015	ND<10	FALSE
GWC-23	12/9/2015	ND<10	FALSE
GWC-23	6/16/2016	ND<10	FALSE
<b>GWC-23</b>	<b>12/7/2016</b>	<b>11</b>	<b>TRUE</b>
GWC-23	6/15/2017	ND<10	FALSE
GWC-23	12/12/2017	ND<10	FALSE
GWC-23	6/19/2018	ND<10	FALSE
GWC-23	12/19/2018	ND<10	FALSE
GWC-23	6/13/2019	ND<10	FALSE
GWC-23	12/12/2019	ND<10	FALSE
GWC-23	6/24/2020	ND<10	FALSE

GWC-5	12/9/2014	ND<10	FALSE
GWC-5	6/25/2015	ND<10	FALSE
GWC-5	12/8/2015	ND<10	FALSE
GWC-5	6/15/2016	ND<10	FALSE
GWC-5	12/9/2016	ND<10	FALSE
GWC-5	6/13/2017	ND<10	FALSE
GWC-5	12/13/2017	ND<10	FALSE
GWC-5	6/21/2018	ND<10	FALSE
GWC-5	12/19/2018	ND<10	FALSE
GWC-5	6/13/2019	ND<10	FALSE
GWC-5	12/11/2019	ND<10	FALSE
GWC-5	6/24/2020	ND<10	FALSE

GWC-7	12/9/2014	ND<10	FALSE
GWC-7	6/25/2015	ND<10	FALSE
GWC-7	12/8/2015	ND<10	FALSE
GWC-7	6/16/2016	ND<10	FALSE
GWC-7	12/9/2016	ND<10	FALSE
GWC-7	6/13/2017	ND<10	FALSE
GWC-7	12/13/2017	ND<10	FALSE
GWC-7	6/20/2018	ND<10	FALSE
GWC-7	12/19/2018	ND<10	FALSE
GWC-7	6/13/2019	ND<10	FALSE
GWC-7	12/12/2019	ND<10	FALSE
GWC-7	6/25/2020	ND<10	FALSE

GWC-10	12/10/2014	ND<10	FALSE
GWC-10	6/23/2015	ND<10	FALSE
GWC-10	12/8/2015	ND<10	FALSE

Total Chromium

GWC-10	6/15/2016	ND<10	FALSE
GWC-10	12/9/2016	ND<10	FALSE
GWC-10	6/16/2017	ND<10	FALSE
GWC-10	12/13/2017	ND<10	FALSE
GWC-10	6/20/2018	ND<10	FALSE
GWC-10	12/18/2018	ND<10	FALSE
GWC-10	6/11/2019	ND<10	FALSE
GWC-10	12/13/2019	ND<10	FALSE
GWC-10	6/25/2020	ND<10	FALSE

GWC-10A	12/10/2014	ND<10	FALSE
GWC-10A	6/23/2015	ND<10	FALSE
GWC-10A	12/8/2015	ND<10	FALSE
GWC-10A	6/15/2016	ND<10	FALSE
GWC-10A	12/9/2016	ND<10	FALSE
GWC-10A	6/16/2017	ND<10	FALSE
GWC-10A	12/13/2017	ND<10	FALSE
GWC-10A	6/20/2018	ND<10	FALSE
GWC-10A	12/18/2018	ND<10	FALSE
GWC-10A	6/11/2019	ND<10	FALSE
GWC-10A	12/13/2019	ND<10	FALSE
GWC-10A	6/25/2020	ND<10	FALSE

GWC-11	12/10/2014	ND<10	FALSE
GWC-11	6/23/2015	ND<10	FALSE
GWC-11	12/8/2015	ND<10	FALSE
GWC-11	6/15/2016	ND<10	FALSE
GWC-11	12/8/2016	ND<10	FALSE
GWC-11	6/15/2017	ND<10	FALSE
GWC-11	12/14/2017	ND<10	FALSE
GWC-11	6/20/2018	ND<10	FALSE
GWC-11	12/20/2018	ND<10	FALSE
GWC-11	6/13/2019	ND<10	FALSE
GWC-11	12/13/2019	ND<10	FALSE
GWC-11	6/25/2020	ND<10	FALSE

GWC-12	12/10/2014	ND<10	FALSE
GWC-12	6/23/2015	ND<10	FALSE
GWC-12	12/8/2015	ND<10	FALSE
GWC-12	6/15/2016	ND<10	FALSE
GWC-12	12/8/2016	ND<10	FALSE
GWC-12	6/15/2017	ND<10	FALSE
GWC-12	12/14/2017	ND<10	FALSE
GWC-12	6/20/2018	ND<10	FALSE
GWC-12	12/20/2018	ND<10	FALSE
GWC-12	6/12/2019	ND<10	FALSE
GWC-12	12/10/2019	ND<10	FALSE
GWC-12	6/25/2020	ND<10	FALSE

GWC-12A	12/10/2014	ND<10	FALSE
GWC-12A	6/23/2015	ND<10	FALSE
GWC-12A	12/8/2015	ND<10	FALSE
GWC-12A	6/15/2016	ND<10	FALSE

Total Chromium

GWC-12A	12/8/2016	ND<10	FALSE
GWC-12A	6/15/2017	ND<10	FALSE
GWC-12A	12/14/2017	ND<10	FALSE
GWC-12A	6/20/2018	ND<10	FALSE
GWC-12A	12/20/2018	ND<10	FALSE
GWC-12A	6/12/2019	ND<10	FALSE
GWC-12A	12/10/2019	ND<10	FALSE
GWC-12A	6/25/2020	ND<10	FALSE

GWC-14A	12/10/2014	ND<10	FALSE
GWC-14A	6/24/2015	ND<10	FALSE
GWC-14A	12/10/2015	ND<10	FALSE
GWC-14A	6/16/2016	ND<10	FALSE
GWC-14A	12/8/2016	ND<10	FALSE
GWC-14A	6/13/2017	ND<10	FALSE
GWC-14A	12/13/2017	ND<10	FALSE
GWC-14A	6/21/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE
GWC-14A	6/12/2019	ND<10	FALSE
GWC-14A	12/11/2019	ND<10	FALSE
GWC-14A	6/24/2020	ND<10	FALSE

GWC-6	12/10/2014	ND<10	FALSE
GWC-6	6/23/2015	ND<10	FALSE
GWC-6	12/9/2015	ND<10	FALSE
<b>GWC-6</b>	<b>6/15/2016</b>	<b>12</b>	<b>TRUE</b>
GWC-6	12/9/2016	ND<10	FALSE
GWC-6	6/13/2017	ND<10	FALSE
GWC-6	12/14/2017	ND<10	FALSE
GWC-6	6/21/2018	ND<10	FALSE
GWC-6	12/20/2018	ND<10	FALSE
GWC-6	6/13/2019	ND<10	FALSE
GWC-6	12/11/2019	ND<10	FALSE

GWC-16A	12/11/2014	ND<10	FALSE
GWC-16A	6/24/2015	ND<10	FALSE
GWC-16A	12/10/2015	ND<10	FALSE
GWC-16A	6/17/2016	ND<10	FALSE
GWC-16A	12/8/2016	ND<10	FALSE
GWC-16A	6/15/2017	ND<10	FALSE
GWC-16A	12/14/2017	ND<10	FALSE
GWC-16A	6/21/2018	ND<10	FALSE
GWC-16A	12/20/2018	ND<10	FALSE
GWC-16A	6/13/2019	ND<10	FALSE
GWC-16A	12/12/2019	ND<10	FALSE
GWC-16A	6/23/2020	ND<10	FALSE

GWC-14	12/11/2014	ND<10	FALSE
GWC-14	6/24/2015	ND<10	FALSE
GWC-14	12/10/2015	ND<10	FALSE
GWC-14	6/15/2016	ND<10	FALSE
GWC-14	6/21/2018	ND<10	FALSE
GWC-14	6/12/2019	ND<10	FALSE

Total Chromium

GWC-14	12/11/2019	ND<10	FALSE
GWC-14	6/25/2020	ND<10	FALSE
GWC-15	12/11/2014	ND<10	FALSE
GWC-15	6/24/2015	ND<10	FALSE
GWC-15	12/9/2015	ND<10	FALSE
GWC-15	6/16/2016	ND<10	FALSE
GWC-15	12/8/2016	ND<10	FALSE
GWC-15	6/14/2017	ND<10	FALSE
GWC-15	12/14/2017	ND<10	FALSE
GWC-15	6/20/2018	ND<10	FALSE
GWC-15	12/19/2018	ND<10	FALSE
GWC-15	6/11/2019	ND<10	FALSE
GWC-15	12/10/2019	ND<10	FALSE
GWC-15	6/25/2020	ND<10	FALSE
GWC-17	12/11/2014	ND<10	FALSE
GWC-17	6/23/2015	ND<10	FALSE
GWC-17	12/8/2015	ND<10	FALSE
GWC-17	6/14/2016	ND<10	FALSE
GWC-17	6/15/2017	ND<10	FALSE
GWC-17	12/13/2017	ND<10	FALSE
GWC-17	6/20/2018	ND<10	FALSE
GWC-17	12/20/2018	ND<10	FALSE
GWC-17	6/13/2019	ND<10	FALSE
GWC-17	12/11/2019	ND<10	FALSE
GWC-17	6/24/2020	ND<10	FALSE
GWC-18	12/11/2014	ND<10	FALSE
GWC-18	6/23/2015	ND<10	FALSE
GWC-18	12/10/2015	ND<10	FALSE
GWC-18	6/14/2016	ND<10	FALSE
GWC-18	12/7/2016	ND<10	FALSE
GWC-18	6/15/2017	ND<10	FALSE
GWC-18	12/14/2017	ND<10	FALSE
GWC-18	6/20/2018	ND<10	FALSE
GWC-18	12/19/2018	ND<10	FALSE
GWC-18	6/12/2019	ND<10	FALSE
GWC-18	12/10/2019	ND<10	FALSE
GWC-18	6/24/2020	ND<10	FALSE
GWC-19R	12/11/2014	ND<10	FALSE
GWC-19R	6/23/2015	ND<10	FALSE
GWC-19R	12/10/2015	ND<10	FALSE
GWC-19R	6/16/2016	ND<10	FALSE
GWC-19R	12/7/2016	ND<10	FALSE
GWC-19R	6/15/2017	ND<10	FALSE
GWC-19R	12/14/2017	ND<10	FALSE
GWC-19R	6/20/2018	ND<10	FALSE
GWC-19R	12/19/2018	ND<10	FALSE
GWC-19R	6/12/2019	ND<10	FALSE
GWC-19R	12/10/2019	ND<10	FALSE
GWC-19R	6/24/2020	ND<10	FALSE

Total Chromium

GWC-8	12/11/2014	ND<10	FALSE
GWC-8	6/24/2015	ND<10	FALSE
GWC-8	12/10/2015	ND<10	FALSE
GWC-8	6/16/2016	ND<10	FALSE
GWC-8	12/9/2016	ND<10	FALSE
GWC-8	12/13/2017	ND<10	FALSE
GWC-8	6/21/2018	ND<10	FALSE
GWC-8	6/13/2019	ND<10	FALSE
GWC-8	12/12/2019	ND<10	FALSE
GWC-8	6/24/2020	ND<10	FALSE
GWC-8A	12/11/2014	ND<10	FALSE
GWC-8A	6/24/2015	ND<10	FALSE
GWC-8A	12/10/2015	ND<10	FALSE
GWC-8A	6/16/2016	ND<10	FALSE
GWC-8A	12/9/2016	ND<10	FALSE
GWC-8A	6/14/2017	ND<10	FALSE
GWC-8A	12/13/2017	ND<10	FALSE
GWC-8A	6/21/2018	ND<10	FALSE
GWC-8A	12/20/2018	ND<10	FALSE
GWC-8A	6/13/2019	ND<10	FALSE
GWC-8A	12/12/2019	ND<10	FALSE
GWC-8A	6/24/2020	ND<10	FALSE
GWC-13	12/12/2014	ND<10	FALSE
GWC-13	6/23/2015	ND<10	FALSE
GWC-13	12/8/2015	ND<10	FALSE
GWC-13	6/16/2016	ND<10	FALSE
GWC-13	12/8/2016	ND<10	FALSE
GWC-13	6/15/2017	ND<10	FALSE
GWC-13	12/13/2017	ND<10	FALSE
GWC-13	6/20/2018	ND<10	FALSE
GWC-13	12/20/2018	ND<10	FALSE
GWC-13	6/13/2019	ND<10	FALSE
GWC-13	12/12/2019	ND<10	FALSE
GWC-13	6/24/2020	ND<10	FALSE
GWC-2	12/12/2014	ND<10	FALSE
GWC-2	6/25/2015	ND<10	FALSE
GWC-2	12/10/2015	ND<10	FALSE
GWC-2	6/15/2016	ND<10	FALSE
GWC-2	12/9/2016	ND<10	FALSE
GWC-2	6/16/2017	ND<10	FALSE
GWC-2	12/14/2017	ND<10	FALSE
GWC-2	6/21/2018	ND<10	FALSE
GWC-2	12/20/2018	ND<10	FALSE
GWC-2	6/13/2019	ND<10	FALSE
GWC-2	6/23/2020	ND<10	FALSE
GWC-3A	12/12/2014	ND<10	FALSE
GWC-3A	6/25/2015	ND<10	FALSE



Total Chromium

GWC-3A	12/10/2015	ND<10	FALSE
GWC-3A	6/15/2016	ND<10	FALSE
GWC-3A	12/9/2016	ND<10	FALSE
GWC-3A	6/16/2017	ND<10	FALSE
GWC-3A	12/13/2017	ND<10	FALSE
GWC-3A	6/21/2018	ND<10	FALSE
GWC-3A	12/18/2018	ND<10	FALSE
GWC-3A	6/12/2019	ND<10	FALSE
GWC-3A	12/11/2019	ND<10	FALSE
GWC-3A	6/25/2020	ND<10	FALSE

GWC-4	12/12/2014	ND<10	FALSE
GWC-4	6/25/2015	ND<10	FALSE
GWC-4	12/10/2015	ND<10	FALSE
GWC-4	6/17/2016	ND<10	FALSE
GWC-4	12/8/2016	ND<10	FALSE
GWC-4	6/21/2018	ND<10	FALSE
GWC-4	6/24/2020	ND<10	FALSE

GWC-4A	12/12/2014	ND<10	FALSE
GWC-4A	6/25/2015	ND<10	FALSE
<b>GWC-4A</b>	<b>12/10/2015</b>	<b>11</b>	<b>TRUE</b>
GWC-4A	6/17/2016	ND<10	FALSE
GWC-4A	12/8/2016	ND<10	FALSE
GWC-4A	6/14/2017	ND<10	FALSE
<b>GWC-4A</b>	<b>12/13/2017</b>	<b>19</b>	<b>TRUE</b>
GWC-4A	6/21/2018	ND<10	FALSE
GWC-4A	12/18/2018	ND<10	FALSE
<b>GWC-4A</b>	<b>6/12/2019</b>	<b>26</b>	<b>TRUE</b>
GWC-4A	12/12/2019	ND<10	FALSE
GWC-4A	6/24/2020	ND<10	FALSE

GWC-9	12/12/2014	ND<10	FALSE
GWC-9	6/23/2015	ND<10	FALSE
GWC-9	12/9/2015	ND<10	FALSE
GWC-9	6/15/2016	ND<10	FALSE
GWC-9	12/9/2016	ND<10	FALSE
GWC-9	6/16/2017	ND<10	FALSE
GWC-9	12/14/2017	ND<10	FALSE
GWC-9	6/21/2018	ND<10	FALSE
GWC-9	12/19/2018	ND<10	FALSE
GWC-9	6/13/2019	ND<10	FALSE
GWC-9	12/13/2019	ND<10	FALSE
GWC-9	6/25/2020	ND<10	FALSE

GWC-24	6/23/2015	ND<10	FALSE
GWC-24	6/14/2016	ND<10	FALSE
GWC-24	6/15/2017	ND<10	FALSE
GWC-24	6/20/2018	ND<10	FALSE
GWC-24	6/12/2019	ND<10	FALSE
GWC-24	12/10/2019	ND<10	FALSE
GWC-24	6/25/2020	ND<10	FALSE

Total Chromium

GWC-3	6/25/2015	ND<10	FALSE
GWC-3	12/10/2015	ND<10	FALSE
GWC-3	6/15/2016	ND<10	FALSE
GWC-3	6/21/2018	ND<10	FALSE
GWC-3	12/18/2018	ND<10	FALSE
GWC-3	6/12/2019	ND<10	FALSE
GWC-3	12/11/2019	ND<10	FALSE
GWC-3	6/25/2020	ND<10	FALSE

Total Cobalt

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.0748%

Background measurements (n) = 24

Maximum Background Concentration = 40

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<40	FALSE
GWA-1A	6/23/2015	ND<40	FALSE
GWA-1A	12/8/2015	ND<40	FALSE
GWA-1A	6/14/2016	ND<40	FALSE
GWA-1A	12/7/2016	ND<40	FALSE
GWA-1A	6/12/2017	ND<40	FALSE
GWA-1A	12/13/2017	ND<40	FALSE
GWA-1A	6/20/2018	ND<40	FALSE
GWA-1A	12/18/2018	ND<40	FALSE
GWA-1A	6/10/2019	ND<40	FALSE
GWA-1A	12/9/2019	ND<40	FALSE
GWA-1A	6/23/2020	ND<40	FALSE

GWC-23A	12/8/2014	ND<40	FALSE
GWC-23A	6/23/2015	ND<40	FALSE
GWC-23A	12/9/2015	ND<40	FALSE
GWC-23A	6/15/2016	ND<40	FALSE
GWC-23A	12/7/2016	ND<40	FALSE
GWC-23A	6/15/2017	ND<40	FALSE
GWC-23A	12/12/2017	ND<40	FALSE
GWC-23A	6/19/2018	ND<40	FALSE
GWC-23A	12/19/2018	ND<40	FALSE
GWC-23A	6/13/2019	ND<40	FALSE
GWC-23A	12/12/2019	ND<40	FALSE
GWC-23A	6/24/2020	ND<40	FALSE

GWA-3	12/9/2014	ND<40	FALSE
GWA-3	6/23/2015	ND<40	FALSE
GWA-3	12/8/2015	ND<40	FALSE
GWA-3	6/14/2016	ND<40	FALSE
GWA-3	12/9/2016	ND<40	FALSE
GWA-3	6/15/2017	ND<40	FALSE
GWA-3	12/12/2017	ND<40	FALSE
GWA-3	6/19/2018	ND<40	FALSE
GWA-3	12/18/2018	ND<40	FALSE
GWA-3	6/12/2019	ND<40	FALSE
GWA-3	12/11/2019	ND<40	FALSE
GWA-3	6/23/2020	ND<40	FALSE

GWC-22	12/9/2014	ND<40	FALSE
GWC-22	6/23/2015	ND<40	FALSE

Total Cobalt

GWC-22	12/10/2015	ND<40	FALSE
GWC-22	6/16/2016	ND<40	FALSE
GWC-22	12/7/2016	ND<40	FALSE
GWC-22	6/15/2017	ND<40	FALSE
GWC-22	12/12/2017	ND<40	FALSE
GWC-22	6/20/2018	ND<40	FALSE
GWC-22	12/19/2018	ND<40	FALSE
GWC-22	6/13/2019	ND<40	FALSE
GWC-22	12/12/2019	ND<40	FALSE
GWC-22	6/24/2020	ND<40	FALSE

GWC-23	12/9/2014	ND<40	FALSE
GWC-23	6/23/2015	ND<40	FALSE
GWC-23	12/9/2015	ND<40	FALSE
GWC-23	6/16/2016	ND<40	FALSE
GWC-23	12/7/2016	ND<40	FALSE
GWC-23	6/15/2017	ND<40	FALSE
GWC-23	12/12/2017	ND<40	FALSE
GWC-23	6/19/2018	ND<40	FALSE
GWC-23	12/19/2018	ND<40	FALSE
GWC-23	6/13/2019	ND<40	FALSE
GWC-23	12/12/2019	ND<40	FALSE
GWC-23	6/24/2020	ND<40	FALSE

GWC-5	12/9/2014	ND<40	FALSE
GWC-5	6/25/2015	ND<40	FALSE
GWC-5	12/8/2015	ND<40	FALSE
GWC-5	6/15/2016	ND<40	FALSE
GWC-5	12/9/2016	ND<40	FALSE
GWC-5	6/13/2017	ND<40	FALSE
GWC-5	12/13/2017	ND<40	FALSE
GWC-5	6/21/2018	ND<40	FALSE
GWC-5	12/19/2018	ND<40	FALSE
GWC-5	6/13/2019	ND<40	FALSE
GWC-5	12/11/2019	ND<40	FALSE
GWC-5	6/24/2020	ND<40	FALSE

GWC-7	12/9/2014	ND<40	FALSE
GWC-7	6/25/2015	ND<40	FALSE
GWC-7	12/8/2015	ND<40	FALSE
GWC-7	6/16/2016	ND<40	FALSE
GWC-7	12/9/2016	ND<40	FALSE
GWC-7	6/13/2017	ND<40	FALSE
GWC-7	12/13/2017	ND<40	FALSE
GWC-7	6/20/2018	ND<40	FALSE
GWC-7	12/19/2018	ND<40	FALSE
GWC-7	6/13/2019	ND<40	FALSE
GWC-7	12/12/2019	ND<40	FALSE
GWC-7	6/25/2020	ND<40	FALSE

GWC-10	12/10/2014	ND<40	FALSE
GWC-10	6/23/2015	ND<40	FALSE
GWC-10	12/8/2015	ND<40	FALSE

Total Cobalt

GWC-10	6/15/2016	ND<40	FALSE
GWC-10	12/9/2016	ND<40	FALSE
GWC-10	6/16/2017	ND<40	FALSE
GWC-10	12/13/2017	ND<40	FALSE
GWC-10	6/20/2018	ND<40	FALSE
GWC-10	12/18/2018	ND<40	FALSE
GWC-10	6/11/2019	ND<40	FALSE
GWC-10	12/13/2019	ND<40	FALSE
GWC-10	6/25/2020	ND<40	FALSE

GWC-10A	12/10/2014	ND<40	FALSE
GWC-10A	6/23/2015	ND<40	FALSE
GWC-10A	12/8/2015	ND<40	FALSE
GWC-10A	6/15/2016	ND<40	FALSE
GWC-10A	12/9/2016	ND<40	FALSE
GWC-10A	6/16/2017	ND<40	FALSE
GWC-10A	12/13/2017	ND<40	FALSE
GWC-10A	6/20/2018	ND<40	FALSE
GWC-10A	12/18/2018	ND<40	FALSE
GWC-10A	6/11/2019	ND<40	FALSE
GWC-10A	12/13/2019	ND<40	FALSE
GWC-10A	6/25/2020	ND<40	FALSE

GWC-11	12/10/2014	ND<40	FALSE
GWC-11	6/23/2015	ND<40	FALSE
GWC-11	12/8/2015	ND<40	FALSE
GWC-11	6/15/2016	ND<40	FALSE
GWC-11	12/8/2016	ND<40	FALSE
GWC-11	6/15/2017	ND<40	FALSE
GWC-11	12/14/2017	ND<40	FALSE
GWC-11	6/20/2018	ND<40	FALSE
GWC-11	12/20/2018	ND<40	FALSE
GWC-11	6/13/2019	ND<40	FALSE
GWC-11	12/13/2019	ND<40	FALSE
GWC-11	6/25/2020	ND<40	FALSE

GWC-12	12/10/2014	ND<40	FALSE
GWC-12	6/23/2015	ND<40	FALSE
GWC-12	12/8/2015	ND<40	FALSE
GWC-12	6/15/2016	ND<40	FALSE
GWC-12	12/8/2016	ND<40	FALSE
GWC-12	6/15/2017	ND<40	FALSE
GWC-12	12/14/2017	ND<40	FALSE
GWC-12	6/20/2018	ND<40	FALSE
GWC-12	12/20/2018	ND<40	FALSE
GWC-12	6/12/2019	ND<40	FALSE
GWC-12	12/10/2019	ND<40	FALSE
GWC-12	6/25/2020	ND<40	FALSE

GWC-12A	12/10/2014	ND<40	FALSE
GWC-12A	6/23/2015	ND<40	FALSE
GWC-12A	12/8/2015	ND<40	FALSE
GWC-12A	6/15/2016	ND<40	FALSE

Total Cobalt

GWC-12A	12/8/2016	ND<40	FALSE
GWC-12A	6/15/2017	ND<40	FALSE
GWC-12A	12/14/2017	ND<40	FALSE
GWC-12A	6/20/2018	ND<40	FALSE
GWC-12A	12/20/2018	ND<40	FALSE
GWC-12A	6/12/2019	ND<40	FALSE
GWC-12A	12/10/2019	ND<40	FALSE
GWC-12A	6/25/2020	ND<40	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>580</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2015</b>	<b>620</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/10/2015</b>	<b>520</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2016</b>	<b>490</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>380</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>370</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/13/2017</b>	<b>280</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>310</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/19/2018</b>	<b>290</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>330</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/11/2019</b>	<b>228</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>301</b>	<b>TRUE</b>

GWC-6	12/10/2014	ND<40	FALSE
GWC-6	6/23/2015	ND<40	FALSE
GWC-6	12/9/2015	ND<40	FALSE
GWC-6	6/15/2016	ND<40	FALSE
GWC-6	12/9/2016	ND<40	FALSE
GWC-6	6/13/2017	ND<40	FALSE
GWC-6	12/14/2017	ND<40	FALSE
GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
GWC-6	6/13/2019	ND<40	FALSE
GWC-6	12/11/2019	ND<40	FALSE

GWC-16A	12/11/2014	ND<40	FALSE
GWC-16A	6/24/2015	ND<40	FALSE
<b>GWC-16A</b>	<b>12/10/2015</b>	<b>100</b>	<b>TRUE</b>
GWC-16A	6/17/2016	ND<40	FALSE
GWC-16A	12/8/2016	ND<40	FALSE
<b>GWC-16A</b>	<b>6/15/2017</b>	<b>81</b>	<b>TRUE</b>
GWC-16A	12/14/2017	ND<40	FALSE
GWC-16A	6/21/2018	ND<40	FALSE
GWC-16A	12/20/2018	ND<40	FALSE
GWC-16A	6/13/2019	ND<40	FALSE
GWC-16A	12/12/2019	ND<40	FALSE
GWC-16A	6/23/2020	ND<40	FALSE

<b>GWC-14</b>	<b>12/11/2014</b>	<b>48</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/24/2015</b>	<b>54</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>12/10/2015</b>	<b>49</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/15/2016</b>	<b>88</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/21/2018</b>	<b>42</b>	<b>TRUE</b>
<b>GWC-14</b>	<b>6/12/2019</b>	<b>57</b>	<b>TRUE</b>

Total Cobalt

**GWC-14** 12/11/2019 50.3 TRUE  
**GWC-14** 6/25/2020 95.1 TRUE

GWC-15 12/11/2014 ND<40 FALSE  
GWC-15 6/24/2015 ND<40 FALSE  
GWC-15 12/9/2015 ND<40 FALSE  
GWC-15 6/16/2016 ND<40 FALSE  
GWC-15 12/8/2016 ND<40 FALSE  
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GWC-15 12/19/2018 ND<40 FALSE  
GWC-15 6/11/2019 ND<40 FALSE  
GWC-15 12/10/2019 ND<40 FALSE  
GWC-15 6/25/2020 ND<40 FALSE

GWC-17 12/11/2014 ND<40 FALSE  
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GWC-17 6/24/2020 ND<40 FALSE

GWC-18 12/11/2014 ND<40 FALSE  
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GWC-18 12/7/2016 ND<40 FALSE  
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GWC-18 12/10/2019 ND<40 FALSE  
GWC-18 6/24/2020 ND<40 FALSE

GWC-19R 12/11/2014 ND<40 FALSE  
GWC-19R 6/23/2015 ND<40 FALSE  
GWC-19R 12/10/2015 ND<40 FALSE  
**GWC-19R** 6/16/2016 47 TRUE  
GWC-19R 12/7/2016 ND<40 FALSE  
GWC-19R 6/15/2017 ND<40 FALSE  
GWC-19R 12/14/2017 ND<40 FALSE  
GWC-19R 6/20/2018 ND<40 FALSE  
GWC-19R 12/19/2018 ND<40 FALSE  
GWC-19R 6/12/2019 ND<40 FALSE  
GWC-19R 12/10/2019 ND<40 FALSE  
GWC-19R 6/24/2020 ND<40 FALSE

Total Cobalt

GWC-8 12/11/2014 ND<40 FALSE  
GWC-8 6/24/2015 ND<40 FALSE  
GWC-8 12/10/2015 ND<40 FALSE  
GWC-8 6/16/2016 ND<40 FALSE  
GWC-8 12/9/2016 ND<40 FALSE  
GWC-8 12/13/2017 ND<40 FALSE  
GWC-8 6/21/2018 ND<40 FALSE  
GWC-8 6/13/2019 ND<40 FALSE  
GWC-8 12/12/2019 ND<40 FALSE  
GWC-8 6/24/2020 ND<40 FALSE

GWC-8A 12/11/2014 ND<40 FALSE  
GWC-8A 6/24/2015 ND<40 FALSE  
GWC-8A 12/10/2015 ND<40 FALSE  
GWC-8A 6/16/2016 ND<40 FALSE  
**GWC-8A** 12/9/2016 44 TRUE  
GWC-8A 6/14/2017 ND<40 FALSE  
GWC-8A 12/13/2017 ND<40 FALSE  
GWC-8A 6/21/2018 ND<40 FALSE  
GWC-8A 12/20/2018 ND<40 FALSE  
GWC-8A 6/13/2019 ND<40 FALSE  
GWC-8A 12/12/2019 ND<40 FALSE  
GWC-8A 6/24/2020 ND<40 FALSE

GWC-13 12/12/2014 ND<40 FALSE  
GWC-13 6/23/2015 ND<40 FALSE  
GWC-13 12/8/2015 ND<40 FALSE  
GWC-13 6/16/2016 ND<40 FALSE  
GWC-13 12/8/2016 ND<40 FALSE  
GWC-13 6/15/2017 ND<40 FALSE  
GWC-13 12/13/2017 ND<40 FALSE  
GWC-13 6/20/2018 ND<40 FALSE  
GWC-13 12/20/2018 ND<40 FALSE  
GWC-13 6/13/2019 ND<40 FALSE  
GWC-13 12/12/2019 ND<40 FALSE  
GWC-13 6/24/2020 ND<40 FALSE

GWC-2 12/12/2014 ND<40 FALSE  
GWC-2 6/25/2015 ND<40 FALSE  
GWC-2 12/10/2015 ND<40 FALSE  
GWC-2 6/15/2016 ND<40 FALSE  
GWC-2 12/9/2016 ND<40 FALSE  
GWC-2 6/16/2017 ND<40 FALSE  
GWC-2 12/14/2017 ND<40 FALSE  
GWC-2 6/21/2018 ND<40 FALSE  
GWC-2 12/20/2018 ND<40 FALSE  
GWC-2 6/13/2019 ND<40 FALSE  
GWC-2 6/23/2020 ND<40 FALSE

GWC-3A 12/12/2014 ND<40 FALSE  
GWC-3A 6/25/2015 ND<40 FALSE

Total Cobalt

GWC-3A	12/10/2015	ND<40	FALSE
GWC-3A	6/15/2016	ND<40	FALSE
GWC-3A	12/9/2016	ND<40	FALSE
GWC-3A	6/16/2017	ND<40	FALSE
GWC-3A	12/13/2017	ND<40	FALSE
GWC-3A	6/21/2018	ND<40	FALSE
GWC-3A	12/18/2018	ND<40	FALSE
GWC-3A	6/12/2019	ND<40	FALSE
GWC-3A	12/11/2019	ND<40	FALSE
GWC-3A	6/25/2020	ND<40	FALSE

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GWC-4	12/12/2014	ND<40	FALSE
GWC-4	6/25/2015	ND<40	FALSE
GWC-4	12/10/2015	ND<40	FALSE
GWC-4	6/17/2016	ND<40	FALSE
GWC-4	12/8/2016	ND<40	FALSE
GWC-4	6/21/2018	ND<40	FALSE
GWC-4	6/24/2020	ND<40	FALSE

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GWC-4A	12/12/2014	ND<40	FALSE
GWC-4A	6/25/2015	ND<40	FALSE
GWC-4A	12/10/2015	ND<40	FALSE
GWC-4A	6/17/2016	ND<40	FALSE
GWC-4A	12/8/2016	ND<40	FALSE
GWC-4A	6/14/2017	ND<40	FALSE
GWC-4A	12/13/2017	ND<40	FALSE
GWC-4A	6/21/2018	ND<40	FALSE
GWC-4A	12/18/2018	ND<40	FALSE
GWC-4A	6/12/2019	ND<40	FALSE
GWC-4A	12/12/2019	ND<40	FALSE
GWC-4A	6/24/2020	ND<40	FALSE

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GWC-9	12/12/2014	ND<40	FALSE
GWC-9	6/23/2015	ND<40	FALSE
GWC-9	12/9/2015	ND<40	FALSE
<b>GWC-9</b>	<b>6/15/2016</b>	<b>50</b>	<b>TRUE</b>
GWC-9	12/9/2016	ND<40	FALSE
GWC-9	6/16/2017	ND<40	FALSE
GWC-9	12/14/2017	ND<40	FALSE
GWC-9	6/21/2018	ND<40	FALSE
GWC-9	12/19/2018	ND<40	FALSE
GWC-9	6/13/2019	ND<40	FALSE
GWC-9	12/13/2019	ND<40	FALSE
GWC-9	6/25/2020	ND<40	FALSE

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GWC-24	6/23/2015	ND<40	FALSE
GWC-24	6/14/2016	ND<40	FALSE
GWC-24	6/15/2017	ND<40	FALSE
GWC-24	6/20/2018	ND<40	FALSE
GWC-24	6/12/2019	ND<40	FALSE
GWC-24	12/10/2019	ND<40	FALSE
GWC-24	6/25/2020	ND<40	FALSE

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Total Cobalt

GWC-3	6/25/2015	ND<40	FALSE
GWC-3	12/10/2015	ND<40	FALSE
GWC-3	6/15/2016	ND<40	FALSE
GWC-3	6/21/2018	ND<40	FALSE
GWC-3	12/18/2018	ND<40	FALSE
GWC-3	6/12/2019	ND<40	FALSE
GWC-3	12/11/2019	ND<40	FALSE
GWC-3	6/25/2020	ND<40	FALSE

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Total Nickel

**Non-Parametric Tolerance Interval**

**Parameter: Total Nickel**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.2909%

Background measurements (n) = 24

Maximum Background Concentration = 20

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	ND<20	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE
GWA-1A	6/23/2020	ND<20	FALSE

GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	ND<20	FALSE
GWC-23A	6/24/2020	ND<20	FALSE

GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	12/11/2019	ND<20	FALSE
GWA-3	6/23/2020	ND<20	FALSE

GWC-22	12/9/2014	ND<20	FALSE
GWC-22	6/23/2015	ND<20	FALSE

Total Nickel

GWC-22	12/10/2015	ND<20	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
GWC-22	6/15/2017	ND<20	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	ND<20	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE
GWC-22	6/24/2020	ND<20	FALSE

GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE

GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	ND<20	FALSE
GWC-5	6/24/2020	ND<20	FALSE

GWC-7	12/9/2014	ND<20	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	ND<20	FALSE
GWC-7	6/16/2016	ND<20	FALSE
GWC-7	12/9/2016	ND<20	FALSE
GWC-7	6/13/2017	ND<20	FALSE
GWC-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	ND<20	FALSE
GWC-7	12/19/2018	ND<20	FALSE
GWC-7	6/13/2019	ND<20	FALSE
GWC-7	12/12/2019	ND<20	FALSE
GWC-7	6/25/2020	ND<20	FALSE

GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	ND<20	FALSE

Total Nickel

GWC-10	6/15/2016	ND<20	FALSE
GWC-10	12/9/2016	ND<20	FALSE
GWC-10	6/16/2017	ND<20	FALSE
GWC-10	12/13/2017	ND<20	FALSE
GWC-10	6/20/2018	ND<20	FALSE
GWC-10	12/18/2018	ND<20	FALSE
GWC-10	6/11/2019	ND<20	FALSE
GWC-10	12/13/2019	ND<20	FALSE
GWC-10	6/25/2020	ND<20	FALSE

GWC-10A	12/10/2014	ND<20	FALSE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	ND<20	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-10A	12/13/2019	ND<20	FALSE
GWC-10A	6/25/2020	ND<20	FALSE

GWC-11	12/10/2014	ND<20	FALSE
GWC-11	6/23/2015	ND<20	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	ND<20	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	ND<20	FALSE
GWC-11	12/13/2019	ND<20	FALSE
GWC-11	6/25/2020	ND<20	FALSE

GWC-12	12/10/2014	ND<20	FALSE
GWC-12	6/23/2015	ND<20	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE

GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE

Total Nickel

GWC-12A	12/8/2016	ND<20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	ND<20	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE

<b>GWC-14A</b>	<b>12/10/2014</b>	<b>38</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/24/2015</b>	<b>36</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/10/2015</b>	<b>28</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/16/2016</b>	<b>28</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/8/2016</b>	<b>27</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/13/2017</b>	<b>24</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>12/13/2017</b>	<b>21</b>	<b>TRUE</b>
<b>GWC-14A</b>	<b>6/21/2018</b>	<b>24</b>	<b>TRUE</b>
GWC-14A	12/19/2018	20	FALSE
<b>GWC-14A</b>	<b>6/12/2019</b>	<b>21</b>	<b>TRUE</b>
GWC-14A	12/11/2019	ND<20	FALSE
<b>GWC-14A</b>	<b>6/24/2020</b>	<b>22.2</b>	<b>TRUE</b>

GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE

GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	6/15/2017	ND<20	FALSE
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE
GWC-16A	6/23/2020	ND<20	FALSE

GWC-14	12/11/2014	ND<20	FALSE
GWC-14	6/24/2015	ND<20	FALSE
GWC-14	12/10/2015	ND<20	FALSE
GWC-14	6/15/2016	ND<20	FALSE
GWC-14	6/21/2018	ND<20	FALSE
GWC-14	6/12/2019	ND<20	FALSE

Total Nickel

GWC-14	12/11/2019	ND<20	FALSE
GWC-14	6/25/2020	ND<20	FALSE
GWC-15	12/11/2014	ND<20	FALSE
GWC-15	6/24/2015	ND<20	FALSE
GWC-15	12/9/2015	ND<20	FALSE
GWC-15	6/16/2016	ND<20	FALSE
GWC-15	12/8/2016	ND<20	FALSE
GWC-15	6/14/2017	ND<20	FALSE
GWC-15	12/14/2017	ND<20	FALSE
GWC-15	6/20/2018	ND<20	FALSE
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-15	12/10/2019	ND<20	FALSE
GWC-15	6/25/2020	ND<20	FALSE
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
GWC-17	12/8/2015	ND<20	FALSE
GWC-17	6/14/2016	ND<20	FALSE
GWC-17	6/15/2017	ND<20	FALSE
GWC-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	ND<20	FALSE
GWC-17	6/13/2019	ND<20	FALSE
GWC-17	12/11/2019	ND<20	FALSE
GWC-17	6/24/2020	ND<20	FALSE
GWC-18	12/11/2014	ND<20	FALSE
<b>GWC-18</b>	<b>6/23/2015</b>	<b>47</b>	<b>TRUE</b>
GWC-18	12/10/2015	ND<20	FALSE
GWC-18	6/14/2016	ND<20	FALSE
<b>GWC-18</b>	<b>12/7/2016</b>	<b>64</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>6/15/2017</b>	<b>34</b>	<b>TRUE</b>
GWC-18	12/14/2017	ND<20	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE
<b>GWC-18</b>	<b>6/12/2019</b>	<b>24</b>	<b>TRUE</b>
<b>GWC-18</b>	<b>12/10/2019</b>	<b>29.8</b>	<b>TRUE</b>
GWC-18	6/24/2020	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	ND<20	FALSE
GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-19R	12/10/2019	ND<20	FALSE
GWC-19R	6/24/2020	ND<20	FALSE

Total Nickel

GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	ND<20	FALSE
GWC-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE
GWC-8	6/24/2020	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	ND<20	FALSE
GWC-8A	12/20/2018	ND<20	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE
GWC-8A	6/24/2020	ND<20	FALSE
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	ND<20	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	ND<20	FALSE
GWC-13	6/24/2020	ND<20	FALSE
GWC-2	12/12/2014	ND<20	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE
GWC-2	6/13/2019	ND<20	FALSE
GWC-2	6/23/2020	ND<20	FALSE
GWC-3A	12/12/2014	ND<20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE



Total Nickel

GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	ND<20	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	ND<20	FALSE
GWC-3A	12/11/2019	ND<20	FALSE
GWC-3A	6/25/2020	ND<20	FALSE

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GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
GWC-4	12/10/2015	ND<20	FALSE
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	ND<20	FALSE
GWC-4	6/24/2020	ND<20	FALSE

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GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	ND<20	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
<b>GWC-4A</b>	<b>6/12/2019</b>	<b>22</b>	<b>TRUE</b>
GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	ND<20	FALSE

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GWC-9	12/12/2014	ND<20	FALSE
GWC-9	6/23/2015	ND<20	FALSE
GWC-9	12/9/2015	ND<20	FALSE
GWC-9	6/15/2016	ND<20	FALSE
GWC-9	12/9/2016	ND<20	FALSE
GWC-9	6/16/2017	ND<20	FALSE
GWC-9	12/14/2017	ND<20	FALSE
GWC-9	6/21/2018	ND<20	FALSE
GWC-9	12/19/2018	ND<20	FALSE
GWC-9	6/13/2019	ND<20	FALSE
GWC-9	12/13/2019	ND<20	FALSE
GWC-9	6/25/2020	ND<20	FALSE

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GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	ND<20	FALSE
GWC-24	6/25/2020	ND<20	FALSE

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Total Nickel

GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
GWC-3	6/25/2020	ND<20	FALSE

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Total Zinc

**Non-Parametric Tolerance Interval**

**Parameter: Total Zinc**

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 68.4211%

Background measurements (n) = 24

Maximum Background Concentration = 48

Minimum Coverage = 88.3%

Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	24	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-1A	12/9/2019	ND<20	FALSE
GWA-1A	6/23/2020	ND<20	FALSE

GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-23A	12/12/2019	31.6	FALSE
GWC-23A	6/24/2020	ND<20	FALSE

GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	43	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	41	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
<b>GWA-3</b>	<b>12/11/2019</b>	<b>71.5</b>	<b>TRUE</b>
GWA-3	6/23/2020	20.3	FALSE

GWC-22	12/9/2014	ND<20	FALSE
GWC-22	6/23/2015	ND<20	FALSE

Total Zinc

GWC-22	12/10/2015	26	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
GWC-22	6/15/2017	ND<20	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	21	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-22	12/12/2019	ND<20	FALSE
GWC-22	6/24/2020	ND<20	FALSE

GWC-23	12/9/2014	ND<20	FALSE
GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23	12/12/2019	ND<20	FALSE
GWC-23	6/24/2020	ND<20	FALSE

GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	26	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-5	12/11/2019	38.3	FALSE
GWC-5	6/24/2020	ND<20	FALSE

GWC-7	12/9/2014	27	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	27	FALSE
GWC-7	6/16/2016	36	FALSE
GWC-7	12/9/2016	ND<20	FALSE
GWC-7	6/13/2017	20	FALSE
GWC-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	30	FALSE
<b>GWC-7</b>	<b>12/19/2018</b>	<b>110</b>	<b>TRUE</b>
GWC-7	6/13/2019	23	FALSE
GWC-7	12/12/2019	42.2	FALSE
GWC-7	6/25/2020	ND<20	FALSE

GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	26	FALSE

Total Zinc

GWC-10	6/15/2016	ND<20	FALSE
GWC-10	12/9/2016	23	FALSE
GWC-10	6/16/2017	ND<20	FALSE
GWC-10	12/13/2017	28	FALSE
GWC-10	6/20/2018	41	FALSE
GWC-10	12/18/2018	22	FALSE
GWC-10	6/11/2019	24	FALSE
<b>GWC-10</b>	<b>12/13/2019</b>	<b>86.4</b>	<b>TRUE</b>
GWC-10	6/25/2020	27.9	FALSE

GWC-10A	12/10/2014	20	FALSE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	38	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-10A	12/13/2019	31.2	FALSE
GWC-10A	6/25/2020	ND<20	FALSE

GWC-11	12/10/2014	21	FALSE
GWC-11	6/23/2015	29	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	26	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	34	FALSE
GWC-11	12/13/2019	23.3	FALSE
GWC-11	6/25/2020	40	FALSE

GWC-12	12/10/2014	20	FALSE
GWC-12	6/23/2015	ND<20	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12	12/10/2019	ND<20	FALSE
GWC-12	6/25/2020	ND<20	FALSE

GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE

Total Zinc

GWC-12A	12/8/2016	20	FALSE
GWC-12A	6/15/2017	ND<20	FALSE
GWC-12A	12/14/2017	ND<20	FALSE
GWC-12A	6/20/2018	26	FALSE
GWC-12A	12/20/2018	ND<20	FALSE
GWC-12A	6/12/2019	ND<20	FALSE
GWC-12A	12/10/2019	ND<20	FALSE
GWC-12A	6/25/2020	ND<20	FALSE

GWC-14A	12/10/2014	ND<20	FALSE
GWC-14A	6/24/2015	ND<20	FALSE
GWC-14A	12/10/2015	20	FALSE
GWC-14A	6/16/2016	ND<20	FALSE
GWC-14A	12/8/2016	ND<20	FALSE
GWC-14A	6/13/2017	ND<20	FALSE
GWC-14A	12/13/2017	ND<20	FALSE
GWC-14A	6/21/2018	20	FALSE
GWC-14A	12/19/2018	ND<20	FALSE
GWC-14A	6/12/2019	ND<20	FALSE
GWC-14A	12/11/2019	ND<20	FALSE
GWC-14A	6/24/2020	ND<20	FALSE

GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-6	12/11/2019	ND<20	FALSE

GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
<b>GWC-16A</b>	<b>6/15/2017</b>	<b>79</b>	<b>TRUE</b>
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	44	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE
GWC-16A	12/12/2019	ND<20	FALSE
GWC-16A	6/23/2020	ND<20	FALSE

GWC-14	12/11/2014	36	FALSE
GWC-14	6/24/2015	23	FALSE
<b>GWC-14</b>	<b>12/10/2015</b>	<b>68</b>	<b>TRUE</b>
GWC-14	6/15/2016	20	FALSE
<b>GWC-14</b>	<b>6/21/2018</b>	<b>67</b>	<b>TRUE</b>
GWC-14	6/12/2019	ND<20	FALSE

Total Zinc

GWC-14	12/11/2019	27.7	FALSE
GWC-14	6/25/2020	25.3	FALSE
<hr/>			
<b>GWC-15</b>	<b>12/11/2014</b>	<b>270</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/24/2015</b>	<b>50</b>	<b>TRUE</b>
GWC-15	12/9/2015	39	FALSE
<b>GWC-15</b>	<b>6/16/2016</b>	<b>55</b>	<b>TRUE</b>
GWC-15	12/8/2016	ND<20	FALSE
<b>GWC-15</b>	<b>6/14/2017</b>	<b>90</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>12/14/2017</b>	<b>60</b>	<b>TRUE</b>
<b>GWC-15</b>	<b>6/20/2018</b>	<b>56</b>	<b>TRUE</b>
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-15	12/10/2019	ND<20	FALSE
GWC-15	6/25/2020	ND<20	FALSE
<hr/>			
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
GWC-17	12/8/2015	ND<20	FALSE
GWC-17	6/14/2016	ND<20	FALSE
GWC-17	6/15/2017	20	FALSE
GWC-17	12/13/2017	ND<20	FALSE
GWC-17	6/20/2018	ND<20	FALSE
GWC-17	12/20/2018	27	FALSE
GWC-17	6/13/2019	24	FALSE
GWC-17	12/11/2019	ND<20	FALSE
GWC-17	6/24/2020	ND<20	FALSE
<hr/>			
GWC-18	12/11/2014	ND<20	FALSE
GWC-18	6/23/2015	ND<20	FALSE
GWC-18	12/10/2015	ND<20	FALSE
GWC-18	6/14/2016	ND<20	FALSE
<b>GWC-18</b>	<b>12/7/2016</b>	<b>49</b>	<b>TRUE</b>
GWC-18	6/15/2017	21	FALSE
GWC-18	12/14/2017	29	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	26	FALSE
GWC-18	6/12/2019	ND<20	FALSE
GWC-18	12/10/2019	38.7	FALSE
GWC-18	6/24/2020	ND<20	FALSE
<hr/>			
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	21	FALSE
GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-19R	12/10/2019	ND<20	FALSE
GWC-19R	6/24/2020	ND<20	FALSE

Total Zinc

GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	26	FALSE
GWC-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8	12/12/2019	ND<20	FALSE
GWC-8	6/24/2020	ND<20	FALSE
<hr/>			
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	34	FALSE
GWC-8A	12/20/2018	42	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-8A	12/12/2019	ND<20	FALSE
GWC-8A	6/24/2020	ND<20	FALSE
<hr/>			
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	45	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-13	12/12/2019	23.6	FALSE
GWC-13	6/24/2020	ND<20	FALSE
<hr/>			
GWC-2	12/12/2014	25	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	23	FALSE
GWC-2	6/13/2019	28	FALSE
GWC-2	6/23/2020	27.8	FALSE
<hr/>			
GWC-3A	12/12/2014	20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE

Total Zinc

GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	34	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	24	FALSE
GWC-3A	12/11/2019	28.8	FALSE
GWC-3A	6/25/2020	33.1	FALSE

GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
<b>GWC-4</b>	<b>12/10/2015</b>	<b>62</b>	<b>TRUE</b>
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	25	FALSE
GWC-4	6/24/2020	ND<20	FALSE

GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	25	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
GWC-4A	6/12/2019	23	FALSE
<b>GWC-4A</b>	<b>12/12/2019</b>	<b>50</b>	<b>TRUE</b>
GWC-4A	6/24/2020	ND<20	FALSE

<b>GWC-9</b>	<b>12/12/2014</b>	<b>86</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/23/2015</b>	<b>67</b>	<b>TRUE</b>
GWC-9	12/9/2015	38	FALSE
<b>GWC-9</b>	<b>6/15/2016</b>	<b>54</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/9/2016</b>	<b>140</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>6/16/2017</b>	<b>73</b>	<b>TRUE</b>
GWC-9	12/14/2017	46	FALSE
GWC-9	6/21/2018	45	FALSE
GWC-9	12/19/2018	38	FALSE
<b>GWC-9</b>	<b>6/13/2019</b>	<b>60</b>	<b>TRUE</b>
<b>GWC-9</b>	<b>12/13/2019</b>	<b>78</b>	<b>TRUE</b>
GWC-9	6/25/2020	45.9	FALSE

GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-24	12/10/2019	24	FALSE
GWC-24	6/25/2020	ND<20	FALSE

Total Zinc

GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	25	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3	12/11/2019	ND<20	FALSE
GWC-3	6/25/2020	ND<20	FALSE



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