Forsyth County Recycling & Solid Waste Department

SAMUEL B. BUCKLES, Environmental Scientist Manager

March 2, 2022

Ms. Beverly Tipton
Georgia Department of Natural Resources
Environmental Protection Division
Solid Waste Management Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354-3906

RE: Second 2021 Semi-Annual Groundwater & Surface Water Monitoring Report
Forsyth County – Hightower Landfill
Permit Nos. 058-006D(SL), 058-009(SL) and
Permit No. 058-010D(SL)
Forsyth County

Dear Ms. Tipton:

In accordance with the Georgia EPD Rules and Regulations for Solid Waste Management, Chapter 391-3-4, Forsyth County is submitting the attached Semi-Annual Groundwater & Surface Water Monitoring Report, prepared by Atlantic Coast Consulting, Inc. (ACC).

You can reach me at (470) 208-8582 (cell) or by email at sbbuckles@forsythco.com if you would like to touch base or discuss, or Charles Adams with ACC at (770) 712-9785 (cell) or charles.adams@atlcc.net.

Sincerely,

Forsyth County – Hightower Road Landfill

Ballground, Georgia 30107

PERMIT #s: 058-006D(L), 058-009D(SL), 058-010D(SL)

Forsyth County

SECOND 2021 SEMI-ANNUAL GROUNDWATER & SURFACE WATER MONITORING REPORT

ATLANTIC COAST CONSULTING, INC.

ATLANTIC COAST CONSULTING, INC.

TABLE OF CONTENTS

Section *Page No.*

1.0 Introduction 2
2.0 Professional Geologist Certification and Compliance Statement 2
3.0 Summary of Site 3
3.1 Geologic Setting 4
3.2 Monitoring Program 4
3.3 Purging and Sampling Procedures 5
3.4 Laboratory Methods 6
3.5 Laboratory Certification 7
4.0 Discussion of Sampling Results 7
4.1 Groundwater 7
4.2 Performance Monitoring 8
4.3 Hydraulic Gradient and Groundwater Flow Velocity 9
4.4 Surface Water 9
5.0 Statistical Analysis 9
5.1 Statistical Methodology 10
5.2 Statistical Results 11
6.0 Summary and Recommendations 12

Tables

Table A Required Compliance Points & Parameters
Table 1 Summary of Water Quality Parameters
Table 2 Summary of Groundwater Elevation Data
Table 3 Summary of Appendix I/II Organic Compound Detections
Table 4 Summary of Appendix I/II Metals Detections
Table 4a Summary of MNA Indicator Parameters
Table 5 Groundwater Flow Rate Calculation
Table 6 Summary of Surface Water Detections & Field Parameters
Table 7 Summary of Statistically Significant Increases
Table 8 Confidence Intervals for Comparing the Mean of the Most Recent Measurements to an Assessment Monitoring Standard

Figure

Figure 1 Potentiometric Surface Map December 2021

Attachments

Attachment A Laboratory Analytical Results
Attachment B Statistical Analysis
Kruskal-Wallis ANOVA Non-Parametric Test
Non-Parametric Tolerance Interval Test

1.0 Introduction

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this Semi-Annual Groundwater & Surface Water Monitoring Report for the Hightower Road Municipal Solid Waste Landfill (MSWLF). 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 during this event, determination of groundwater flow rate and direction, a summary of analytical results, and a statistical analysis of the analytical data.

2.0 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 & Surface Water Monitoring Report is provided to document the results of the December 2021 sampling event at the Hightower Road MSWLF. 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 complies with appropriate Rules of Georgia Solid Waste Management, because Assessment of Corrective Measures (ACM) Studies have been completed and a Corrective Action Plan (CAP) is being implemented.

3.0 Summary of Site

The Forsyth County Hightower Road Landfill is a closed MSWLF 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 MNA and LFG migration control. 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 status 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, if required.

3.1 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".

3.2 Monitoring Program

There are 13 groundwater monitoring network wells and three AMW series wells utilized to monitor groundwater conditions near Phase I of the facility, and 34 monitoring network wells and ten 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 13 locations around the facility. 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. Five surface water locations (SWC-1, SWC-4, SWC-4A, SWC-4B, and SWC-6) are also sampled for Appendix I VOCs. (See **Table A** for a summary of sampling requirements).

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 the full Appendix II analyte list 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 or Appendix II VOCs and Appendix I metals as warranted by the data (i.e., to provide delineation) and are sampled for the required parameters listed in **Table A**. Appendix I VOCs are collected from SWC-1, SWC-4, SWC-4A, SWC-4B, 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 on 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 are submitted to EPD as attachments to the second semi-annual 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. Per Rule 391-3-4-.14(32), alternate GWPS were established in the ACM for analytes that have no established MCL.

3.3 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.
- 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-3A, PH1-GWC-2, GWA-1A, GWC-8R, GWC-14R, 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.
- Trip blanks were 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 **Table 3** (Organics) and **Table 4** (Metals).

3.4 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.

3.5 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 in **Attachment A**.

4.0 Discussion of Sampling Results

Samples from the second 2021 semi-annual monitoring event were collected December 13-20, 2021. The samples were analyzed by AES of Atlanta, Georgia. Samples were collected and analyzed from network detection and assessment monitoring wells for Appendix I parameters during this monitoring event as detailed in **Table A**. Monitoring well GWC-15 had an obstruction preventing it from being sampled and GWC-16A was dry or purged dry and did not recharge and was not sampled. Groundwater monitoring wells AMW-1 and AMW-2 were sampled as surrogate wells for GWC-15 and GWC-16A, respectively.

4.1 Groundwater

An evaluation of the December 2021 semi-annual groundwater sampling results indicates that one or more VOCs were detected in 13 network groundwater well samples and four AMW series well samples as summarized on **Table 3**. The concentrations of five VOCs in one or more assessment well samples were above the respective GWPS: chloroethane, 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.
- During the previous event, there was an unverified detection of 1,2,3-trichloropropane at 33 micrograms per Liter (µg/L) in the sample from GWC-14R. This detection did not reoccur during this event.
- The concentrations of cis-1,2-DCE and TCE in the sample from AMW-1 (140 µg/L and 48 µg/L, respectively) were above the respective GWPS (70 µg/L and 5 µg/L). The concentrations of cis-1,2-DCE and TCE in the sample from AMW-12R (2.3 µg/L and 2.2 µg/L, respectively) that is downgradient of AMW-1 were below the respective GWPS.
- The concentrations of PCE in samples from PH1-GWC-3, PH1-GWC-3A, AMW-1, and AMW-12R were above the GWPS (5 µg/L). [See report *Section 4.2* for further discussion of these detections.]
- The concentrations of TCE in samples from PH1-GWC-3 and PH1-GWC-3A were above the GWPS (5 µg/L). TCE was not detected in the SWC-6 sample that is located downgradient of PH1-GWC-3.

- The concentrations of chloroethane, cis-1,2-DCE, and vinyl chloride in the sample from GWC-14A (5.0 µg/L, 77 µg/L, and 19 µg/L, respectively) were above the respective GWPS (4.6 µg/L, 70 µg/L, and 2 µg/L). These compounds were not detected in GWC-13 that is downgradient of GWC-14A. They were also not detected in the shallower well GWC-14, and cis-1,2-DCE was not above the GWPS, and vinyl chloride was not detected the deeper well GWC-14R.
- The detections of VOCs in groundwater are addressed by remedies in the CAP.
- 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 ten during the second 2021 event. The total number of concentrations above a GWPS that were also identified as SSIs has also decreased from 25 during the first 2007 event to ten during the second 2021 event.

A summary of metals detected during this event is presented in **Table 4**. Appendix I metals barium, chromium, cobalt, nickel, and zinc were detected in one or more groundwater well samples. During this event, there was an unverified detection of chromium in the sample from GWC-12A that will be evaluated next event. All detected groundwater metals concentrations were less than their respective GWPS. Low levels of barium were detected in most groundwater samples, and cobalt, nickel, and zinc were detected less frequently. These metals are considered naturally occurring in site soils.

4.2 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**). Annual MNA laboratory analysis includes the following: dissolved oxygen, nitrate, sulfate, ferrous iron, chloride, ORP, carbon dioxide, TDS, and alkalinity. A summary of MNA parameter data is provided in **Table 4a**. 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 groundwater event monitoring reports for 2010, 2013, 2016, and 2019. The next Corrective Measures Status Evaluation Report will be provided in conjunction with the second 2022 report.

Forsyth County is currently conducting a pilot test to evaluate the effectiveness of encapsulated potassium permanganate ($KMnO_4$) in reducing VOCs in groundwater near AMW-12/12R. Work is being conducted under the EPD approved Underground Injection Control (UIC) Permit No. GAW000753. This pilot test/UIC permit is the result of a multi-year process to evaluate enhancing the groundwater CAP. The selected remedy has been evaluated through the feasibility assessment process and implemented per the November 24, 2020 *Groundwater Pilot Test Work Plan*, submitted as Georgia EPD Online System (GEOS) Submittal ID: 519457. As part of the UIC permit requirements, quarterly reports are submitted to EPD Watershed Protection Branch (1st quarter 2021 Submittal ID: 567207, 2nd quarter 2021 Submittal ID: 579724, 3rd quarter 2021 Submittal ID: 597718, and 4th quarter 2021 Submittal ID: 617224). This semi-annual groundwater monitoring report, conducted

under the solid waste permit, will also be submitted to the EPD Watershed Protection Branch as part of the UIC permit requirement. As noted in report *Section 4.1* the concentration of PCE was above the GWPS in the sample from AMW-12R. Groundwater well AMW-12 was sampled and analyzed for Appendix I VOCs and selected indicator parameters January 18, 2022, as part of the pilot test. In the January 2022 sample from AMW-12R PCE was detected at 2.9 µg/L below the GWPS of 5.0 µg/L. The January 2022 laboratory analytical data is provided in **Attachment A**.

4.3 Hydraulic Gradient and Groundwater Flow Velocity

The December 2021 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 168 feet per year, generally to the northeast and northwest (in a sub-radial pattern).

4.4 Surface Water

Eleven surface water sampling points are monitored semi-annually at the landfill and two points, identified as SWC-4A and SWC-4B, have been added for delineation (all points are listed in **Table A** and locations depicted on **Figure 1**). Locations SWC-7, SWC-8, and SWC-9 were dry during this event and were not sampled. Surface water samples are analyzed for permit-required parameters COD, total cyanide, total organic carbon, chloride, and metals (as summarized on **Table 6**). Low-level concentrations of total organic carbon, chloride, barium, and/or zinc were detected in one or more samples.

Due to detections of VOCs above a GWPS in samples from PH1-GWC-3 and PH1-GWC-3A, Appendix I VOC sampling/analysis has been added[1] to SWC-6 (see **Table A**). In addition, for delineation purposes SWC-1, SWC-4, SWC-4A, and SWC-4B are monitored for Appendix I VOCs and results are included in **Attachment A**. 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. There were no detections of VOCs in the SWC-1, SWC-4, SWC-4A, and SWC-4B samples.

There was a detection of cis-1,2-DCE in the sample from SWC-6 at a concentration of 5.3 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 four previous detections of cis-1,2-DCE in the sample from SWC-6.

5.0 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.

[1] 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.

5.1 Statistical Methodology

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: 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 MSWLF and Phase III MSWLF. 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 event.

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.

For confirmed SSIs, calculated using the methodology above, that are also at a concentration above the relevant GWPS, confidence limits are calculated to determine if the 95% lower confidence limit (LCL) is above the GWPS. In accordance with the *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance (March 2009)*, the confidence limits are compared to the GWPS, and a statistically significant level (SSL) is identified when the 95% LCL is above the GWPS.

5.2 Statistical Results

Kruskal-Wallis non-parametric ANOVA and NPTI statistical tests are included in **Attachment B**. The wells with concentrations identified as an SSI over background for the current event as determined by the Kruskal-Wallis ANOVA and the NPTI methods are listed in **Table 7**. The wells with identified SSIs over background and concentrations above a GWPS are evaluated to determine if concentrations are SSLs in **Table 8**.

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

6.0 Summary and Recommendations

The results of the data evaluated from the December 2021 sampling event are summarized below:

- Groundwater generally flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 168 feet per year.
- VOCs at concentrations above respective GWPS in network wells are limited to those 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 metals concentrations were 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, PH1-GWC-4, GWC-1, GWC-7, and GWC-9), cobalt (GWC-14), and zinc (GWC-9), all below respective GWPS; these detections are attributed to their typical presence in regional soils.
- SWC-6 had a verified, low-level detection of cis-1,2-DCE at a concentration well below the MCL. There is no established instream water quality standard for cis-1,2-DCE. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from groundwater wells PH1-GWC-3 and PH1-GWC-3A. The concentration of cis-1,2-DCE in the sample from SWC-6 is significantly less than the concentrations in PH1-GWC-3 and PH1-GWC-3A. Four additional surface water points were monitored for VOCs (SWC-1, SWC-4, 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 ten during the second 2021 event. The total number of concentrations above a GWPS that were also identified as SSIs has also decreased from 25 during the first 2007 event to ten during the second 2021 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 June 2022.

TABLES

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

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

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, oxidation-reduction potential (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity.

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

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

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, oxidation-reduction potential (ORP), carbon dioxide, total dissolved solids (TDS) and total alkalinity.

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
December 2021 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
Phase I Groundwater Locations						
PH1-GWA-1	Bailer	5.26	78	17.1	8.7	0.0
PH1-GWA-1A	Bailer	5.97	56	15.3	2.2	NR
PH1-GWA-2	Bailer	5.59	80	19.3	3.9	0.0
PH1-GWA-3A	Sub. Pump	5.72	38	20.2	0.0	NR
PH1-GWA-4	Bailer	5.73	22	17.9	6.9	0.0
PH1-GWB-1	Bailer	4.89	44	17.4	4.4	NR
PH1-GWB-2	Bailer	5.04	37	17.6	4.3	NR
PH1-GWC-1	Bailer	5.78	130	19.4	0.9	NR
PH1-GWC-2	Sub. Pump	6.38	113	18.1	47	0.0
PH1-GWC-3	Bailer	5.83	114	15.7	9.5	0.0
PH1-GWC-3A	Bailer	5.87	174	14.4	22	0.0
PH1-GWC-4	Bailer	5.20	32	17.8	4.6	NR
GWC-1	Bailer	5.44	109	18.2	0.9	NR
AMW-9	Bailer	5.27	25	17.6	3.1	0.0
Phase II, III, and IV Groundwater Locations						
GWA-1	Bailer	5.18	45	15.6	5.5	NR
GWA-1A	Sub. Pump	6.17	102	19.3	0.8	NR
GWA-2	Bailer	5.31	21	15.3	5.4	NR
GWA-3	Bailer	5.49	19	17.5	4.8	NR
GWC-2	Bailer	5.41	16	16.5	0.0	NR
GWC-3	Bailer	5.04	18	19.0	1.4	NR
GWC-3A	Bailer	5.08	32	17.9	1.5	NR
GWC-4	Bailer	5.50	22	16.9	4.4	NR
GWC-4A	Bailer	6.67	88	15.6	7.8	NR
GWC-5	Bailer	5.14	19	15.7	3.0	NR
GWC-6	Bailer	5.69	48	16.7	1.1	NR
GWC-7	Bailer	5.17	48	15.8	0.0	NR
GWC-8	Bailer	5.83	45	16.4	2.3	NR
GWC-8A	Bailer	6.12	285	12.1	28	0.0
GWC-8R	Sub. Pump	6.01	223	20.4	85 **	0.0
GWC-9	Bailer	4.01	89	18.1	2.0	NR
GWC-10	Bailer	5.14	17	19.3	1.3	NR
GWC-10A	Bailer	5.03	38	18.8	0.0	NR
GWC-11	Bailer	4.21	20	17.8	16	NR
GWC-12	Bailer	4.23	14	17.9	2.1	NR
GWC-12A	Bailer	4.54	16	17.7	3.5	NR
GWC-13	Bailer	5.61	43	14.8	0.0	NR
GWC-14	Bailer	5.13	31	16.3	0.0	NR
GWC-14A	Bailer	6.07	276	19.7	2.5	0.0
GWC-14R	Sub. Pump	6.05	220	20.4	0.0	0.0

Notes: Groundwater samples collected December 13-20, 2021.
** = Metals not required.

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 (Continued)

Summary of Water Quality Parameters

Forsyth County - Hightower Road MSWLF

December 2021 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
Phase II, III, and IV Groundwater Locations (Continued)						
GWC-15	Obstruction in well - Refer to Surrogate AMW-1					0.0
GWC-16A	Purged Dry - Refer to Surrogate AMW-2					0.0
GWC-17	Bailer	5.61	103	13.6	3.7	0.0
GWC-18	Bailer	5.63	70	17.2	0.0	0.0
GWC-19R	Bailer	5.60	103	19.2	0.0	0.0
GWC-22	Bailer	5.27	33	17.0	4.8	NR
GWC-23	Bailer	5.82	36	15.4	23	NR
GWC-23A	Bailer	5.59	33	15.5	17	NR
GWC-24	Bailer	5.58	56	16.8	8.6	0.0
AMW-1	Sub. Pump	5.53	124	22.2	0.0	0.0
AMW-2	Sub. Pump	6.12	124	19.5	0.0	0.0
AMW-4	Bailer	5.68	82	13.6	42 **	0.0
AMW-5	Bailer	5.90	82	14.7	225 **	0.0
AMW-12	Bailer	4.95	111	21.4	670 **	0.0
AMW-12R	Bailer	5.38	54	19.1	85 **	0.0
AMW-13	Bailer	5.93	30	16.0	2.8	0.0
AMW-14	Bailer	6.02	82	21.5	24 **	0.0

Notes: Groundwater samples collected December 13-20, 2021.
** = Metals not required.

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 2
Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
December 2021 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
Phase I Groundwater Locations				
PH1-GWA-1	48.66	1176.37	41.72	1134.65
PH1-GWA-1A	108.00	1176.35	41.95	1134.40
PH1-GWA-2	53.60	1183.40	37.17	1146.23
PH1-GWA-3A	250.00	1187.16	36.95	1150.21
PH1-GWA-4	57.00	1191.14	37.75	1153.39
PH1-GWB-1	53.80	1179.10	42.10	1137.00
PH1-GWB-2	42.22	1155.04	29.48	1125.56
PH1-GWC-1	23.79	1074.66	8.08	1066.58
PH1-GWC-2	127.61	1103.93	22.97	1080.96
PH1-GWC-3	23.42	1096.96	11.77	1085.19
PH1-GWC-3A	55.42	1096.28	10.76	1085.52
PH1-GWC-4	33.71	1124.26	32.29	1091.97
GWC-1	38.80	1102.25	28.72	1073.53
AMW-8	50.40	1186.23	40.26	1145.97
AMW-9	41.69	1162.64	39.00	1123.64
AMW-10	56.81	1180.73	50.52	1130.21
Phase II, III, and IV Groundwater Locations				
GWA-1	62.85	1187.70	55.70	1132.00
GWA-1A	141.00	1187.49	56.43	1131.06
GWA-2	52.18	1137.30	40.85	1096.45
GWA-3	48.86	1154.53	41.43	1113.10
GWC-2	55.61	1103.64	46.21	1057.43
GWC-3	39.71	1092.39	35.12	1057.27
GWC-3A	68.95	1094.67	33.44	1061.23
GWC-4	49.81	1132.82	44.00	1088.82
GWC-4A	89.23	1132.39	40.50	1091.89
GWC-5	49.91	1084.55	45.74	1038.81
GWC-6	34.52	1064.01	25.31	1038.70
GWC-7	54.21	1093.44	42.46	1050.98
GWC-8	27.53	1095.63	22.22	1073.41
GWC-8A	46.71	1095.44	21.40	1074.04
GWC-8R	94.67	1098.40	24.08	1074.32
GWC-9	60.50	1093.58	49.17	1044.41
GWC-10	37.51	1068.56	24.81	1043.75

Notes: Depths to water measured on December 13, 2021.

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
December 2021 Sampling Event

Monitoring Well ID	Total Well Depth (ft BTOC)	TOC Elevation (ft MSL)	Depth to Water Level (ft BTOC)	Groundwater Elevation (ft MSL)
Phase II, III, and IV Groundwater Locations (Continued)				
GWC-10A	54.30	1066.45	25.34	1041.11
GWC-11	46.80	1054.08	34.77	1019.31
GWC-12	40.06	1038.06	30.88	1007.18
GWC-12A	49.44	1038.09	31.53	1006.56
GWC-13	44.95	1090.82	33.55	1057.27
GWC-14	28.37	1089.49	24.15	1065.34
GWC-14A	64.75	1089.32	23.69	1065.63
GWC-14R	93.61	1078.60	14.42	1064.18
GWC-15	62.84	1125.68	58.62	1067.06
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	13.00	1094.78
GWC-18	52.70	1094.87	43.72	1051.15
GWC-19R	39.87	1105.79	28.97	1076.82
GWC-22	35.05	1079.01	22.01	1057.00
GWC-23	32.22	1079.06	17.84	1061.22
GWC-23A	61.67	1079.10	15.76	1063.34
GWC-24	44.09	1102.32	35.80	1066.52
AMW-1	180.70	1130.04	62.17	1067.87
AMW-2	150.00	1101.96	43.45	1058.51
AMW-3	31.30	1041.09	9.83	1031.26
AMW-4	18.80	1040.09	4.70	1035.39
AMW-5	23.06	1049.32	8.05	1041.27
AMW-11R	58.10	1053.63	7.11	1046.52
AMW-12	19.56	1056.85	8.23	1048.62
AMW-12R	46.43	1056.34	10.24	1046.10
AMW-13	36.18	1093.09	32.70	1060.39
AMW-14	21.70	1052.73	9.77	1042.96

Notes: Depths to water measured December 13, 2021.

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
December 2021 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chlorobenzene (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*
Phase I Groundwater Locations								
PH1-GWA-1	--	--	--	--	4.1	--	--	--
PH1-GWA-1A	--	--	--	--	--	--	--	--
PH1-GWA-2	--	--	--	--	35	--	2.0	--
PH1-GWA-3A	--	--	--	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--	--	--	--
PH1-GWB-1	--	--	--	--	--	--	--	--
PH1-GWB-2	--	--	--	--	--	--	--	--
PH1-GWC-1	--	--	--	--	--	--	--	--
PH1-GWC-2	2.9	--	--	--	6.7	2.9	3.0	--
PH1-GWC-3	3.2	--	--	--	25	**8.8**	**7.1**	--
PH1-GWC-3A	2.3	--	--	--	14	**7.2**	**5.7**	--
PH1-GWC-4	--	--	--	--	--	--	--	--
GWC-1	--	--	--	--	--	--	--	--
AMW-9	--	--	--	--	--	--	--	--
Phase II, III, and IV Groundwater Locations								
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	2.3	--	--	--	24	--	--	--
GWC-8R	11	--	--	--	24	--	--	--

Notes: Groundwater samples collected December 13-20, 2021.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.

Acronyms: µg/L = micrograms per liter
1,1-DCA = 1,1-Dichloroethane; 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
December 2021 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	Benzene (µg/L)	Chlorobenzene (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*
Phase II, III, and IV Groundwater Locations (Continued)								
GWC-9	--	--	--	--	--	--	--	--
GWC-10	--	--	--	--	--	--	--	--
GWC-10A	--	--	--	--	--	--	--	--
GWC-11	--	--	--	--	--	--	--	--
GWC-12	--	--	--	--	--	--	--	--
GWC-12A	--	--	--	--	--	--	--	--
GWC-13	--	--	--	--	--	--	--	--
GWC-14	--	--	--	--	--	--	--	--
GWC-14A	13	3.0	15	**5.0**	**77**	--	--	**19**
GWC-14R	14	--	--	--	24	--	2.8	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1							
GWC-16A	Purged Dry; Refer to Surrogate AMW-2							
GWC-17	--	--	--	--	7.6	--	--	--
GWC-18	--	--	--	--	10	3.4	--	--
GWC-19R	--	--	--	--	7.9	--	--	--
GWC-22	--	--	--	--	--	--	--	--
GWC-23	--	--	--	--	--	--	--	--
GWC-23A	--	--	--	--	--	--	--	--
GWC-24	--	--	--	--	--	--	--	--
AMW-1	39	3.7	--	--	**140**	**12**	**48**	--
AMW-2	--	--	--	--	--	--	--	--
AMW-4	--	--	--	--	13	3.4	--	--
AMW-5	--	--	--	--	2.0	--	--	--
AMW-12	--	--	--	--	--	2.4	--	--
AMW-12R	2.3	--	--	--	2.3	**9.2**	2.2	--
AMW-13	--	--	--	--	--	--	--	--
AMW-14	--	--	--	--	--	--	--	--

Notes: Groundwater samples collected December 13-20, 2021.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.

Acronyms: µg/L = micrograms per liter
1,1-DCA = 1,1-Dichloroethane; 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 Metals Detections
Forsyth County - Hightower Road MSWLF
December 2021 Sampling Event

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	*2*	*0.1*	*0.73**	*0.1*	*5***
Phase I Groundwater Locations					
PH1-GWA-1	0.0228	--	0.111	--	0.0310
PH1-GWA-1A	0.0226	--	--	--	--
PH1-GWA-2	0.0716	--	--	--	--
PH1-GWA-3A	--	--	--	--	--
PH1-GWA-4	--	--	--	--	--
PH1-GWB-1	0.0568	--	--	--	--
PH1-GWB-2	--	--	--	--	0.0238
PH1-GWC-1	0.0306	--	--	--	--
PH1-GWC-2	--	--	--	--	--
PH1-GWC-3	0.0288	--	--	--	--
PH1-GWC-3A	0.0285	--	--	--	0.0436
PH1-GWC-4	0.0413	--	--	--	0.0217
GWC-1	0.0840	--	--	--	--
AMW-9	--	--	--	--	--
Phase II, III, and IV Groundwater Locations					
GWA-1	0.0241	--	--	--	0.0223
GWA-1A	0.0323	--	--	--	--
GWA-2	0.0249	--	--	--	--
GWA-3	--	--	--	--	--
GWC-2	--	--	--	--	--
GWC-3	--	--	--	--	--
GWC-3A	0.0328	--	--	--	--
GWC-4	0.0210	--	--	--	--
GWC-4A	--	--	--	--	--
GWC-5	--	--	--	--	--
GWC-6	--	--	--	--	--
GWC-7	0.0418	--	--	--	--
GWC-8	0.0335	--	--	--	--
GWC-8A	0.0497	--	--	--	--

Notes: Groundwater samples collected December 13-20, 2021.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
** Secondary EPA MCL.
Underlined concentrations are unverified detections.
Georgia MCL is used for nickel per 391-3-5-.18(1)(a).

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 Metals Detections
Forsyth County - Hightower Road MSWLF
December 2021 Sampling Event

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Zinc (mg/L)
GWPS	*2*	*0.1*	*0.73**	*0.1*	*5***
Phase II, III, and IV Groundwater Locations					
GWC-9	0.100	--	--	--	0.0499
GWC-10	--	--	--	--	--
GWC-10A	0.0335	--	--	--	--
GWC-11	0.0233	--	--	--	--
GWC-12	--	--	--	--	--
GWC-12A	--	0.0184	--	--	--
GWC-13	--	--	--	--	--
GWC-14	0.0473		--	--	--
GWC-14A	0.179	--	0.192	--	0.0260
GWC-15	Purged Dry; Refer to Surrogate AMW-1				
GWC-16A	Purged Dry; Refer to Surrogate AMW-2				
GWC-17	0.0392	--	--	--	--
GWC-18	0.141	--	--	0.0337	--
GWC-19R	0.0870	--	0.0404	--	--
GWC-22	0.0246	--	--	--	--
GWC-23	--	--	--	--	--
GWC-23A	--	--	--	--	--
AMW-1	0.0734	--	--	--	--
AMW-2	0.0236	--	--	--	--
AMW-13	--	--	--	--	--

Notes: Groundwater samples collected December 13-20, 2021.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists; EPA Region IX PRG referenced as GWPS.
** Secondary EPA MCL.
Underlined concentrations are unverified detections.
Georgia MCL is used for nickel per 391-3-5-.18(1)(a).

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 4a
Summary of MNA Indicator Parameters
Forsyth County - Hightower Road MSWLF
Corrective Action Plan
December 2021 Sampling Event

Well ID	Alkalinity (mg/L as $CaCO_3$)	Total Dissolved Solids	Chloride	Sulfate	Ferrous Iron[1]	Dissolved Oxygen[1]	ORP (rel mV)[1]	Carbon Dioxide[1]	Nitrate Nitrogen
Phase I Unimpacted Upgradient Groundwater Location									
PH1-GWA-4	6.71	16	1.5	1.1	0.0	6.9	254	85	--
Phase I Assessment Monitoring Locations									
PH1-GWA-1	34.3	44	2.1	1.5	2.4	5.2	261	188	--
PH1-GWA-2	35.6	68	3.6	1.3	1.6	1.7	183	80	--
PH1-GWC-2	69.7	105	2.8	2.7	0.0	1.7	188	55	--
PH1-GWC-3	64.9	92	4.2	3.7	0.5	2.1	251	130	--
PH1-GWC-3A	90.2	117	1.9	1.5	0.0	2.8	247	65	--
Phase II, III, and IV Assessment Monitoring Locations									
GWC-8A	32.3	65	3.1	1.4	4.0	3.5	32	425	--
GWC-8R	133	150	2.4	3.3	2.5	3.2	76	150	--
GWC-14A	147	170	16	3.4	1.5	1.4	68	250	--
GWC-14R	146	179	4.4	3.1	0.5	0.8	188	200	--
GWC-15	Purged Dry; Refer to AMW-1								
AMW-1	77.2	99	1.9	1.6	0.0	0.9	139	200	--
GWC-16A	Purged Dry; Refer to AMW-2								
AMW-2	68.3	87	2.0	7.1	0.0	2.3	245	60	0.35
GWC-17	20.2	42	2.2	1.8	0.0	4.8	308	125	0.95
GWC-18	23.1	52	4.2	1.3	1.5	4.2	127	35	0.49
GWC-19R	43.4	60	1.9	2.5	1.5	2.5	72	50	--
GWC-24	24.6	44	1.7	2.1	1.0	5.6	194	63	0.43
AMW Series Locations									
AMW-4	38.2	61	3.0	1.5	0.0	2.1	260	55	0.28
AMW-5	34.4	57	3.4	3.1	0.0	1.5	242	25	--
AMW-14	34.7	64	3.5	2.9	1.0	2.0	235	40	--

Notes: [1] = Field measurement.
Units are mg/L unless otherwise noted.
Groundwater samples collected December 13-20, 2021.
-- = Below laboratory reporting limit.

Acronyms: mg/L = milligrams per liter
rel MV = relative millivolts
ORP = oxidation-reduction potential

Table 5
Groundwater Flow Rate Calculation
Forsyth County - Hightower Road MSWLF
December 2021 Sampling Event

Equation

$$v = \frac{k\,(i)}{n_e}$$

where: V = groundwater velocity
k = hydraulic conductivity
i = hydraulic gradient (dh/dl)
dh = the difference between two hydraulic heads
dl = the flow path length between the two piezometers
n_e = effective porosity

Values Used in Calculation

k =	1.0	ft/day	(reference 1)
i^1 =	0.081	ft/ft	PH1-GWA-2 to GWC-1
i^2 =	0.109	ft/ft	GWA-3 to GWC-2
i^3 =	0.088	ft/ft	GWA-2 to GWC-23
i^4 =	0.091	ft/ft	GWC-8 to AMW-11R
i^{AVE} =	0.092	ft/ft	Average
n_e =	0.20	unitless	(reference 1)

Calculation

$$v = \frac{(1.0\ \text{ft/day})\,(0.092\ \text{ft/ft})}{20\%}$$

$$v = 0.46\ \text{ft/day}$$

$$v = 168\ \text{ft/year}$$

Notes: ft = feet

Reference:

(1) Site average hydraulic conductivity for GWA-2, GWC-3, GWC-4, & GWC-10 (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
December 2021 Sampling Event

Location ID	cis-1,2-DCE (µg/L)	Total Organic Carbon (mg/L)	Chloride (mg/L)	Barium (mg/L)	Zinc (mg/L)
SWA-1	NS	1.07	2.14	0.0296	--
SWA-2	NS	--	2.05	--	--
SWC-1	--	1.18	6.08	--	0.0394
SWC-2	NS	--	1.93	--	--
SWC-3	NS	--	2.35	--	--
SWC-4	--	--	2.61	--	--
SWC-4A	--	NS	NS	NS	NS
SWC-4B	--	NS	NS	NS	NS
SWC-5	NS	4.70	20.3	0.0480	0.0621
SWC-6	5.3	1.71	16.3	0.0295	--
SWC-7	DRY				
SWC-8	DRY				
SWC-9	DRY				

Location ID	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SWA-1	5.68	72	15.1	3.6	4.5
SWA-2	6.60	42	15.3	7.9	6.9
SWC-1	6.95	80	16.7	0.0	7.8
SWC-2	6.28	40	14.7	0.0	7.5
SWC-3	6.45	48	14.4	6.6	7.2
SWC-4	6.33	51	13.8	5.0	7.7
SWC-4A	6.61	34	13.3	1.8	7.9
SWC-4B	5.59	31	14.9	0.0	6.4
SWC-5	6.29	227	15.4	2.0	7.3
SWC-6	6.65	136	15.0	0.8	6.9
SWC-7	DRY				
SWC-8	DRY				
SWC-9	DRY				

Notes: Surface water samples were collected December 13-16, 2021.
-- = 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
December 2021 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 Zinc
Phase I Downgradient Groundwater Network Locations										
PH1-GWA-1				X					X	
PH1-GWA-1A										
PH1-GWA-2				X				X		
PH1-GWB-1								X		
PH1-GWB-2										
PH1-GWC-1								X		
PH1-GWC-2	X			X	X	X				
PH1-GWC-3	X			X	X	X		X		
PH1-GWC-3A	X			X	X	X				
PH1-GWC-4								X		
GWC-1								X		
Phase II, III, and IV Downgradient Groundwater Network Locations										
GWA-1A										
GWA-3										
GWC-2										
GWC-3										
GWC-3A										
GWC-4										
GWC-4A										
GWC-5										
GWC-6										
GWC-7								X		
GWC-8										
GWC-8A	X			X				X		
GWC-8R	X			X						
GWC-9								X		X
GWC-10										
GWC-10A										
GWC-11										
GWC-12										
GWC-12A										
GWC-13										
GWC-14										
GWC-14A	X	X	X	X			X	X	X	
GWC-14R	X			X		X				
GWC-15	X	X		X	X	X		X		
GWC-16A										
GWC-17				X						
GWC-18				X	X			X		
GWC-19R				X				X	X	
GWC-22										
GWC-23										
GWC-23A										
GWC-24										

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
cis-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene

Table 8
Confidence Intervals for Comparing the Mean of the Most Recent Measurements to an Assessment Monitoring Standard
December 2021 Sampling Event

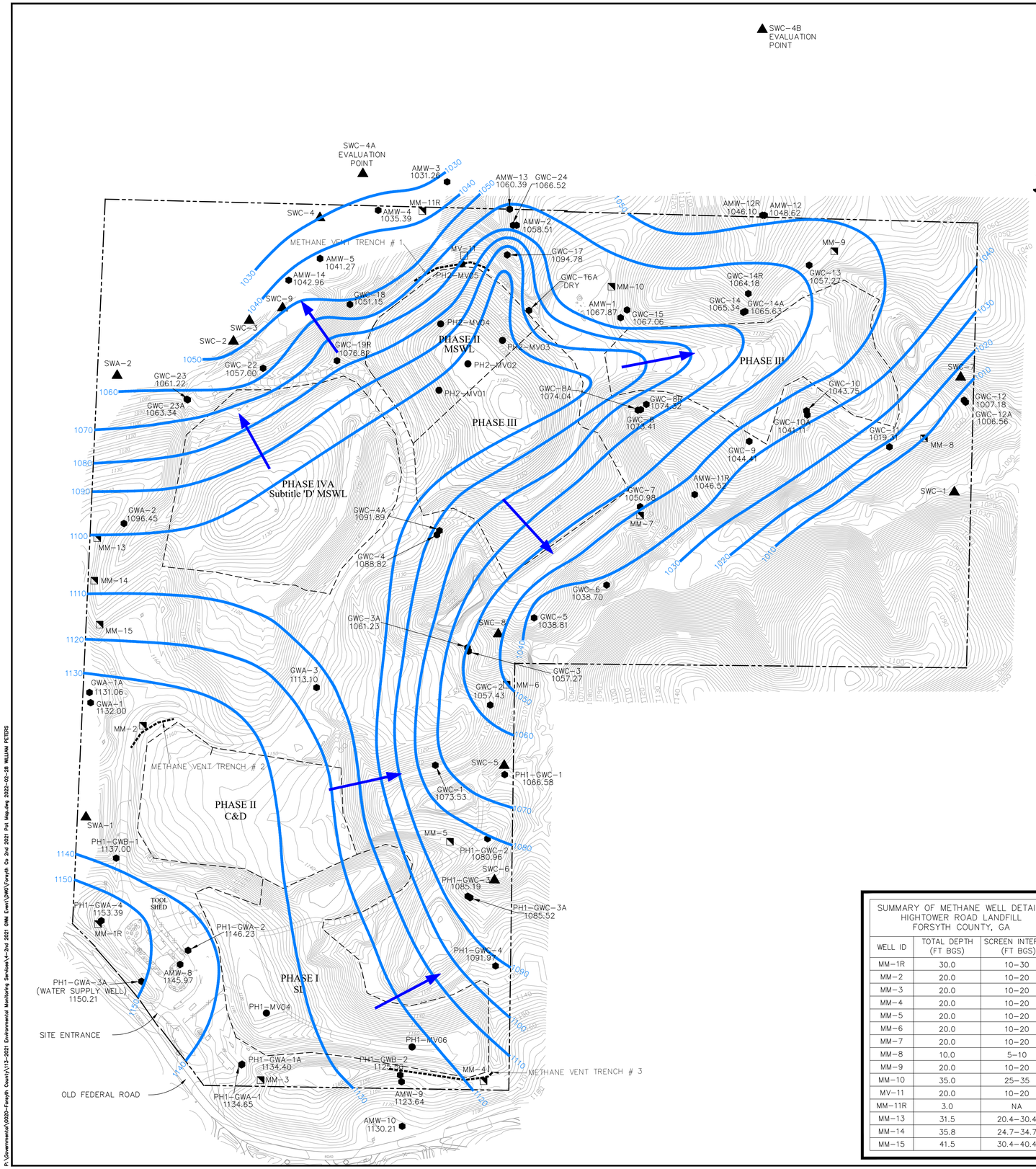
Well	Parameter	Jun-20	Dec-20	Jun-21	Dec-21	mean	SD	95% LCL	95% UCL	GWPS	95% LCL > GWPS
PH1-GWC-3	PCE	9	9.1	9.3	8.8	9.1	0.2	8.8	9.3	5	**Yes**
PH1-GWC-3	TCE	7.1	7.6	7.5	7.1	7.3	0.3	7.0	7.6	5	**Yes**
PH1-GWC-3A	PCE	1	5.7	8.1	7.2	5.5	3.2	1.8	9.2	5	No
PH1-GWC-3A	TCE	2.8	8.1	6.1	5.7	5.7	2.2	3.1	8.2	5	No
GWC-14A	Chloroethane	3.3	4.2	3	5	3.9	0.9	2.8	4.9	4.6	No
GWC-14A	cis-1,2-DCE	62	69	59	77	66.8	8.0	57.3	76.2	70	No
GWC-14A	Vinyl Chloride	7.5	11	12	19	12.4	4.8	6.7	18.0	2	**Yes**
AMW-1/GWC-15	cis-1,2-DCE	110	110	130	140	122.5	15.0	104.9	140.1	70	**Yes**
AMW-1/GWC-15	PCE	48	19	29	12	27.0	15.6	8.6	45.4	5	**Yes**
AMW-1/GWC-15	TCE	90	45	71	48	63.5	21.1	38.6	88.4	5	**Yes**

Notes: Reference: D7048 – 16 Standard Guide for Applying Statistical Methods for Assessment and Corrective Action Environmental Monitoring Programs

Acronyms: cis-1,2-DCE = cis-1,2-Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
µg/L = micrograms per liter
GWPS = groundwater protection standard
LCL = lower confidence limit
UCL = upper confidence limit
SD = standard deviation

Atlantic Coast Consulting, Inc.

FIGURE



SUMMARY OF GROUNDWATER ELEVATION DATA
FORSYTH COUNTY – HIGHTOWER RD MSWLF
DECEMBER 2021 SAMPLING EVENT

MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)
PHASE II – IV WELLS				
GWC-10A	54.30	1066.45	25.34	1041.11
GWC-11	46.80	1054.08	34.77	1019.31
GWC-12	40.06	1038.06	30.88	1007.18
GWC-12A	49.44	1038.09	31.53	1006.56
GWC-13	44.95	1090.82	33.55	1057.27
GWC-14	28.37	1089.49	24.15	1065.34
GWC-14A	64.75	1089.32	23.69	1065.63
GWC-14R	93.61	1078.60	14.42	1064.18
GWC-15	62.84	1125.68	58.62	1067.06
GWC-16A	51.05	1136.49	DRY	DRY
GWC-17	21.59	1107.78	13.00	1094.78
GWC-18	52.70	1094.87	43.72	1051.15
GWC-19R	39.87	1105.79	28.97	1076.82
GWC-22	35.05	1079.01	22.01	1057.00
GWC-23	32.22	1079.06	17.84	1061.22
GWC-23A	61.67	1079.10	15.76	1063.34
GWC-24	44.09	1102.32	35.80	1066.52
AMW-1	180.70	1130.04	62.17	1067.87
AMW-2	150.00	1101.96	43.45	1058.51
AMW-3	31.30	1041.09	9.83	1031.26
AMW-4	18.80	1040.09	4.70	1035.39
AMW-5	23.06	1049.32	8.05	1041.27
AMW-11R	58.10	1053.63	7.11	1046.52
AMW-12	19.56	1056.85	8.23	1048.62
AMW-12R	46.43	1056.34	10.24	1046.10
AMW-13	36.18	1093.09	32.70	1060.39
AMW-14	21.70	1052.73	9.77	1042.96

SUMMARY OF GROUNDWATER ELEVATION DATA
FORSYTH COUNTY – HIGHTOWER ROAD MSWLF
DECEMBER 2021 SAMPLING EVENT

MONITORING WELL ID	TOTAL WELL DEPTH (FT BTOC)	TOC ELEVATION (FT MSL)	DEPTH TO WATER LEVEL (FT BTOC)	GROUNDWATER ELEVATION (FT MSL)
PHASE I WELLS				
PH1-GWA-1	48.66	1176.37	41.72	1134.65
PH1-GWA-1A	108.00	1176.35	41.95	1134.40
PH1-GWA-2	53.60	1183.40	37.17	1146.23
PH1-GWA-3A	250.00	1187.16	36.95	1150.21
PH1-GWA-4	57.00	1191.14	37.75	1153.39
PH1-GWB-1	53.80	1179.10	42.10	1137.00
PH1-GWB-2	42.22	1155.04	29.48	1125.56
PH1-GWC-1	23.79	1074.66	8.08	1066.58
PH1-GWC-2	127.61	1103.93	22.97	1080.96
PH1-GWC-3	23.42	1096.96	11.77	1085.19
PH1-GWC-3A	55.42	1096.28	10.76	1085.52
PH1-GWC-4	33.71	1124.26	32.29	1091.97
GWC-1	38.80	1102.25	28.72	1073.53
AMW-8	50.40	1186.23	40.26	1145.97
AMW-9	41.69	1162.64	39.00	1123.64
AMW-10	56.81	1180.73	50.52	1130.21
PHASE II – IV WELLS				
GWA-1	62.85	1187.70	55.70	1132.00
GWA-1A	141.00	1187.49	56.43	1131.06
GWA-2	52.18	1137.30	40.85	1096.45
GWA-3	48.86	1154.53	41.43	1113.10
GWC-2	55.61	1103.64	46.21	1057.43
GWC-3	39.71	1092.39	35.12	1057.27
GWC-3A	68.95	1094.67	33.44	1061.23
GWC-4	49.81	1132.82	44.00	1088.82
GWC-4A	89.23	1132.39	40.50	1091.89
GWC-5	49.91	1084.55	45.74	1038.81
GWC-6	34.52	1064.01	25.31	1038.70
GWC-7	54.21	1093.44	42.46	1050.98
GWC-8	27.53	1095.63	22.22	1073.41
GWC-8A	46.71	1095.44	21.40	1074.04
GWC-8R	94.67	1098.40	24.08	1074.32
GWC-9	60.50	1093.58	49.17	1044.41
GWC-10	37.51	1068.56	24.81	1043.75

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
MV-11	20.0	10–20
MM-11R	3.0	NA
MM-13	31.5	20.4–30.4
MM-14	35.8	24.7–34.7
MM-15	41.5	30.4–40.4

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CHARLES BRISENDINE ADAMS GEORGIA REGISTERED PROFESSIONAL GEOLOGIST No.1632

150 0 75 150 300 600

SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
850	PROMINENT CONTOUR
	INTERMEDIATE CONTOUR
	PROPERTY BOUNDARY
	APPROXAMITE LIMIT OF WASTE
	SURFACE WATER/POND
770	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION
GWA-1	GROUNDWATER MONITORING WELL
SWA-1	SURFACE WATER MONITORING POINT
MM-1	METHANE MONITORING POINT
MV-1	METHANE VENT
PH1-MV04	EXTRACTION POINT WITH ACTIVE FLARE

NOTES

1. DEPTHS TO GROUNDWATER MEASURED BY ATLANTIC COAST CONSULTING, INC. DECEMBER 13, 2021.
2. WELL AND PROBE LOCATIONS ARE APPROXIMATE AND BASED ON W.L. JORDEN & CO. DRAWINGS DATED MARCH 3, 1996.
3. SURVEY IS PROVIDED BY APPALACHIAN SURVEYING COMPANY IN CUMMING, GEORGIA DATED JANUARY AND APRIL 1998. CONTROL POINT COORDINATES WERE TAKEN FROM THESE SURVEYS.
4. LOCATIONS OF MM-1R, MM-13, MM-14, AND MM-15 ARE APPROXIMATE.
5. LOCATIONS OF AMW-2 AND AMW-3 ARE APPROXIMATE.
6. GWA-1A, GWC-4A, GWC-23A, AMW-2 AND AMW-9 ARE NOT USED FOR POTENTIOMETRIC CONTOURS.
7. POTENTIOMETRIC CONTOUR INTERVAL IS 10 FEET.
8. FT BTOC = FEET BELOW CASING; FT MSL = FEET MEAN SEA LEVEL; AND FT BGS = FEET BELOW GROUND SURFACE; NA = NOT APPLICABLE.

REVISIONS

0. INITIAL ISSUE	02/11/2022

PROJECT

FORSYTH COUNTY, GEORGIA Your Community. Your Future.

FORSYTH COUNTY
HIGHTOWER ROAD LANDFILL

POTENTIOMETRIC SURFACE MAP DECEMBER 2021

Drawn by:	Checked by:	QC by:
AS	TG	up

PROJECT NUMBER:	FIGURE:
G020-113	1

P:\Governmental\2020-Forsyth County\113-2021 Environmental Monitoring Services\4-2nd 2021 GW Event\DWG\Forsyth Co. 2nd 2021 Pot Map.dwg 2022-02-28 WILLIAM PETERS

Atlantic Coast Consulting, Inc.

ATTACHMENTS

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 22, 2021

Charles Adams
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County-Hightower Road MSWLF

Dear Charles Adams: Order No: 2112I55

Analytical Environmental Services, Inc. received 56 samples on 12/14/2021 5:52:00 PM for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 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 11/01/23.
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,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340-3704

CHAIN OF CUSTODY

Work Order: 2112155
Page 1 of 4

COMPANY:	ADDRESS:
Atlantic Coast Consulting, Inc.	1150 Northmeadow Pkwy Suite 100 Roswell, GA 30076
PHONE: 770-712-9785 or 770-594-5998	EMAIL: charles.adams@atlcc.net
SAMPLED BY: H. Auld, B. Ramjeawan, K. Holifield	SIGNATURE: H Auld

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *		SW Metals **	Chloride	Cyanide	COD	TOC			REMARKS	Number of Containers
							PRESERVATION (see codes)														
							H+I	N	I	I	I		N	I	NaOH	S+I	S+I				
1	PH1-GWA-1	12-13-21	1215	✓		GW	✓	HNO3	✓	✓	✓										3
2	PH1-GWA-1A	12-13-21	1510	✓		GW	✓														2
3	PH1-GWB-1	12-13-21	1130	✓		GW	✓														2
4	PH1-GWB-2	12-13-21	1254	✓		GW	✓														2
5	PH1-GWC-3	12-14-21	1005	✓		GW	✓		✓	✓	✓										3
6	PH1-GWC-3A	12-14-21	0950	✓		GW	✓		✓	✓	✓										3
7	AMW-9	12-13-21	1316	✓		GW	✓														2
8	GWA-1	12-13-21	1545	✓		GW	✓														2
9	GWA-2	12-13-21	1620	✓		GW	✓														2
10	GWC-5	12-13-21	1610	✓		GW	✓														2
11	GWC-6	12-13-21	1440	✓		GW	✓														2
12	GWC-7	12-13-21	1530	✓		GW	✓														2
13	GWC-9	12-13-21	1550	✓		GW	✓														2
14	GWC-11	12-13-21	1535	✓		GW	✓														2

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Ramjeawan	12/14/21 1752	1.	12.14.21 17:52
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: Forsyth County - Hightower Road MSWLF
PROJECT #: G020-113
SITE ADDRESS: 9480 Old Federal Road, Ballground, GA 30107
SEND REPORT TO: Charles Adams, Betsy McDaniel
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:
* 48-hr holding time nitrate
** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

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Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

7.15.19_COC

AES | Analytical Environmental Services, Inc.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340-3704

CHAIN OF CUSTODY

Work Order: 2112155
Page 2 of 4

COMPANY: Atlantic Coast Consulting, Inc.	ADDRESS: 1150 Northmeadow Pkwy, Suite 100, Roswell, GA 30076
PHONE: 770-712-9785 or 770-594-5998	EMAIL: charles.adams@atlcc.net
SAMPLED BY: H. Auld, B. Ramjeawan, K. Holifield	SIGNATURE: H. Auld

ANALYSIS REQUESTED

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	Appendix I VOC	Appendix I Metals	Alkalinity	TDS	Cl, SO4, NO3 *		SW Metals **	Chloride	Cyanide	COD	TOC			REMARKS	Number of Containers
							PRESERVATION (see codes)														
							H+I	N	I	I	I		N	I	NaOH	S+I	S+I				
1	GWC-12	12-13-21	1515	✓		GW	✓														2
2	GWC-12A	12-13-21	1500	✓		GW	✓														2
3	GWC-22	12-13-21	1355	✓		GW	✓														2
4	GWC-23	12-13-21	1300	✓		GW	✓														2
5	GWC-23A	12-13-21	1235	✓		GW	✓														2
6	AMW-12	12-13-21	1315	✓		GW	✓														2
7	AMW-12R	12-13-21	1400	✓		GW	✓														2
8	SWC-4B	12-13-21	1425	✓		GW	✓														2
9	PH1-GWC-2	12-14-21	1110	✓		GW	✓	✓	✓	✓	✓										4
10	GWC-12	12-14-21	1230	✓		GW		✓													1
11	GWC-12A	12-14-21	1235	✓		GW		✓													1
12	GWC-11	12-14-21	1245	✓		GW		✓													1
13	GWC-9	12-14-21	1250	✓		GW		✓													1
14	AMW-1	12-14-21	1305	✓		GW	✓	✓	✓	✓	✓										4

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1. Ben Ramjeawan	12/14/21 1752	1.	12.14.21 17:52
2.		2.	
3.		3.	

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* 48-hr holding time nitrate
** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg

SHIPMENT METHOD
OUT: / / VIA:
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Client FedEx UPS US mail courier
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- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

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SAMPLED BY: H. Auld, B. Ramjeawar, K. Hatfield	SIGNATURE:

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							PRESERVATION (see codes)														
							H+I	N	I	I	I		N	I	NaOH	S+I	S+I				
1	GWC-14R	12-14-21	1410	✓		GW	✓		✓	✓	✓										3
2	GWC-14A	12-14-21	1455	✓		GW	✓		✓	✓	✓										3
3	Field Blank 1	12-14-21	1510	✓		GW	✓	✓													3
4	PH1-GWA-1	12-14-21	0925	✓		GW		✓													1
5	PH1-GWA-1A	12-14-21	0955	✓		GW		✓													1
6	PH1-GWA-2	12-14-21	1135	✓		GW	✓		✓	✓	✓										3
7	PH1-GWA-4	12-14-21	1215	✓		GW	✓		✓	✓	✓										3
8	PH1-GWB-1	12-14-21	0910	✓		GW		✓													1
9	PH1-GWB-2	12-14-21	1005	✓		GW		✓													1
10	AMW-9	12-14-21	1015	✓		GW		✓													1
11	GWA-1	12-14-21	1040	✓		GW		✓													1
12	GWA-2	12-14-21	1050	✓		GW		✓													1
13	GWA-3	12-14-21	1248	✓		GW	✓														2
14	GWC-4	12-14-21	1320	✓		GW	✓														2

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2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
* 48-hr holding time nitrate
** Surface Water Metals: As, Ba, Cd, Cr, Pb, Ni, Ag, Se, Zn, Hg

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
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							PRESERVATION (see codes)														
							H+I	N	I	I	I		N	I	NaOH	S+I	S+I				
1	GWC-17	12-14-21	1435	✓		GW	✓		✓	✓	✓										3
2	GWC-24	12-14-21	1420	✓		GW	✓		✓	✓	✓										3
3	GWC-5	12-14-21	0955	✓		GW		✓													1
4	GWC-6	12-14-21	0935	✓		GW		✓													1
5	GWC-7	12-14-21	0945	✓		GW		✓													1
6	GWC-18	12-14-21	1350	✓		GW	✓		✓	✓	✓										3
7	GWC-19R	12-14-21	1445	✓		GW	✓		✓	✓	✓										3
8	GWC-22	12-14-21	0920	✓		GW		✓													1
9	GWC-23	12-14-21	0915	✓		GW		✓													1
10	GWC-23A	12-14-21	0910	✓		GW		✓													1
11	AMW-4	12-14-21	1040	✓		GW	✓		✓	✓	✓										3
12	AMW-5	12-14-21	1120	✓		GW	✓		✓	✓	✓										3
13	AMW-14	12-14-21	1310	✓		GW	✓		✓	✓	✓										3
14	Trip Blank	—	—	✓		W															2

ANALYSIS REQUESTED

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1. Ben Ramjeawan	12/14/21 1752	1.	12.14.21 17:52
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
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IN: / / VIA:
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- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
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E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

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7.15.19_COC

Analytical Environmental Services, Inc

Date: 22-Dec-21

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County-Hightower Road MSWLF
Lab ID: 2112I55

Case Narrative

Sample Receiving Nonconformance:

One vial for sample 2112I55-019 was received broken. The laboratory proceeded with analysis using the remaining intact vial.

The metals bottle for sample 2112I55-023 was not received. The laboratory proceeded with all other analyses. Client was notified via email on 12/17/21.

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112I55-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	44	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	2.1	0.50		mg/L	R472618	1	12/14/2021 20:11	KV
Nitrate	BRL	0.25		mg/L	R472618	1	12/14/2021 20:11	KV
Sulfate	1.5	1.0		mg/L	R472618	1	12/14/2021 20:11	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 08:16	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 08:16	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 08:16	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 08:16	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 08:16	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 08:16	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 08:16	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 08:16	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
cis-1,2-Dichloroethene	4.1	2.0		ug/L	327663	1	12/18/2021 08:16	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 08:16	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 08:16	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:15:00 PM
Lab ID:	2112I55-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 08:16	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 08:16	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 08:16	CM
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 08:16	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 08:16	CM
Surr: 4-Bromofluorobenzene	105	74.9-127		%REC	327663	1	12/18/2021 08:16	CM
Surr: Dibromofluoromethane	114	78.9-121		%REC	327663	1	12/18/2021 08:16	CM
Surr: Toluene-d8	94.7	81.5-120		%REC	327663	1	12/18/2021 08:16	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	34.3	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-1A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:10:00 PM
Lab ID:	2112I55-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 08:41	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 08:41	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 08:41	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 08:41	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 08:41	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 08:41	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 08:41	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 08:41	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 08:41	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 08:41	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 08:41	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 08:41	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 08:41	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-1A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:10:00 PM
Lab ID:	2112I55-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 08:41	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 08:41	CM
Surr: 4-Bromofluorobenzene	104	74.9-127		%REC	327663	1	12/18/2021 08:41	CM
Surr: Dibromofluoromethane	113	78.9-121		%REC	327663	1	12/18/2021 08:41	CM
Surr: Toluene-d8	94.9	81.5-120		%REC	327663	1	12/18/2021 08:41	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWB-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 11:30:00 AM
Lab ID:	2112I55-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/19/2021 12:07	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/19/2021 12:07	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
2-Butanone	BRL	100		ug/L	327663	1	12/19/2021 12:07	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/19/2021 12:07	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/19/2021 12:07	CM
Acetone	BRL	100		ug/L	327663	1	12/19/2021 12:07	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/19/2021 12:07	CM
Benzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Bromoform	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Bromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/19/2021 12:07	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Chloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Iodomethane	BRL	100		ug/L	327663	1	12/19/2021 12:07	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/19/2021 12:07	CM
Styrene	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Toluene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/19/2021 12:07	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/19/2021 12:07	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/19/2021 12:07	CM

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.	**Client Sample ID:**	PH1-GWB-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 11:30:00 AM
Lab ID:	2112I55-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:07	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/19/2021 12:07	CM
Surr: 4-Bromofluorobenzene	99.5	74.9-127		%REC	327663	1	12/19/2021 12:07	CM
Surr: Dibromofluoromethane	99.9	78.9-121		%REC	327663	1	12/19/2021 12:07	CM
Surr: Toluene-d8	97.1	81.5-120		%REC	327663	1	12/19/2021 12:07	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWB-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:54:00 PM
Lab ID:	2112I55-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/19/2021 12:32	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/19/2021 12:32	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
2-Butanone	BRL	100		ug/L	327663	1	12/19/2021 12:32	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/19/2021 12:32	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/19/2021 12:32	CM
Acetone	BRL	100		ug/L	327663	1	12/19/2021 12:32	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/19/2021 12:32	CM
Benzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Bromoform	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Bromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/19/2021 12:32	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Chloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Iodomethane	BRL	100		ug/L	327663	1	12/19/2021 12:32	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/19/2021 12:32	CM
Styrene	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Toluene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/19/2021 12:32	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/19/2021 12:32	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/19/2021 12:32	CM

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.	**Client Sample ID:**	PH1-GWB-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:54:00 PM
Lab ID:	2112I55-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:32	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/19/2021 12:32	CM
Surr: 4-Bromofluorobenzene	100	74.9-127		%REC	327663	1	12/19/2021 12:32	CM
Surr: Dibromofluoromethane	97.4	78.9-121		%REC	327663	1	12/19/2021 12:32	CM
Surr: Toluene-d8	95.2	81.5-120		%REC	327663	1	12/19/2021 12:32	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-3
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:05:00 AM
Lab ID:	2112I55-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	92	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	4.2	0.50		mg/L	R473051	1	12/16/2021 00:13	KV
Nitrate	BRL	0.25		mg/L	R473051	1	12/16/2021 00:13	KV
Sulfate	3.7	1.0		mg/L	R473051	1	12/16/2021 00:13	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,1-Dichloroethane	3.2	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 09:56	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 09:56	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 09:56	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 09:56	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 09:56	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 09:56	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 09:56	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 09:56	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
cis-1,2-Dichloroethene	25	2.0		ug/L	327663	1	12/18/2021 09:56	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 09:56	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 09:56	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM

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.	**Client Sample ID:**	PH1-GWC-3
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:05:00 AM
Lab ID:	2112I55-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	8.8	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 09:56	CM
Trichloroethene	7.1	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 09:56	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 09:56	CM
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 09:56	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 09:56	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327663	1	12/18/2021 09:56	CM
Surr: Dibromofluoromethane	107	78.9-121		%REC	327663	1	12/18/2021 09:56	CM
Surr: Toluene-d8	95.9	81.5-120		%REC	327663	1	12/18/2021 09:56	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	64.9	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-3A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:50:00 AM
Lab ID:	2112I55-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	117	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	1.9	0.50		mg/L	R472795	1	12/15/2021 21:31	KV
Nitrate	BRL	0.25		mg/L	R472795	1	12/15/2021 21:31	KV
Sulfate	1.5	1.0		mg/L	R472795	1	12/15/2021 21:31	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,1-Dichloroethane	2.3	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/19/2021 12:57	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/19/2021 12:57	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
2-Butanone	BRL	100		ug/L	327663	1	12/19/2021 12:57	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/19/2021 12:57	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/19/2021 12:57	CM
Acetone	BRL	100		ug/L	327663	1	12/19/2021 12:57	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/19/2021 12:57	CM
Benzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Bromoform	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Bromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/19/2021 12:57	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Chloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
cis-1,2-Dichloroethene	14	2.0		ug/L	327663	1	12/19/2021 12:57	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Iodomethane	BRL	100		ug/L	327663	1	12/19/2021 12:57	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/19/2021 12:57	CM
Styrene	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-3A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:50:00 AM
Lab ID:	2112I55-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	7.2	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Toluene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/19/2021 12:57	CM
Trichloroethene	5.7	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/19/2021 12:57	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/19/2021 12:57	CM
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/19/2021 12:57	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/19/2021 12:57	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327663	1	12/19/2021 12:57	CM
Surr: Dibromofluoromethane	97.7	78.9-121		%REC	327663	1	12/19/2021 12:57	CM
Surr: Toluene-d8	95.7	81.5-120		%REC	327663	1	12/19/2021 12:57	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	90.2	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	AMW-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:16:00 PM
Lab ID:	2112I55-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 10:46	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 10:46	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 10:46	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 10:46	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 10:46	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 10:46	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 10:46	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 10:46	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 10:46	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 10:46	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 10:46	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 10:46	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 10:46	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:16:00 PM
Lab ID:	2112I55-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 10:46	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 10:46	CM
Surr: 4-Bromofluorobenzene	99.9	74.9-127		%REC	327663	1	12/18/2021 10:46	CM
Surr: Dibromofluoromethane	91.3	78.9-121		%REC	327663	1	12/18/2021 10:46	CM
Surr: Toluene-d8	94.6	81.5-120		%REC	327663	1	12/18/2021 10:46	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:45:00 PM
Lab ID:	2112I55-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 11:11	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 11:11	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 11:11	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 11:11	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 11:11	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 11:11	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 11:11	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 11:11	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 11:11	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 11:11	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 11:11	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 11:11	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 11:11	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:45:00 PM
Lab ID:	2112I55-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 11:11	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 11:11	CM
Surr: 4-Bromofluorobenzene	107	74.9-127		%REC	327663	1	12/18/2021 11:11	CM
Surr: Dibromofluoromethane	121	78.9-121		%REC	327663	1	12/18/2021 11:11	CM
Surr: Toluene-d8	95.4	81.5-120		%REC	327663	1	12/18/2021 11:11	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 4:20:00 PM
Lab ID:	2112I55-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 11:36	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 11:36	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 11:36	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 11:36	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 11:36	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 11:36	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 11:36	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 11:36	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 11:36	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 11:36	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 11:36	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 11:36	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 11:36	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 4:20:00 PM
Lab ID:	2112I55-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 11:36	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 11:36	CM
Surr: 4-Bromofluorobenzene	105	74.9-127		%REC	327663	1	12/18/2021 11:36	CM
Surr: Dibromofluoromethane	112	78.9-121		%REC	327663	1	12/18/2021 11:36	CM
Surr: Toluene-d8	98.9	81.5-120		%REC	327663	1	12/18/2021 11:36	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-5
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 4:10:00 PM
Lab ID:	2112I55-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 12:01	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 12:01	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 12:01	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 12:01	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 12:01	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 12:01	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 12:01	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 12:01	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 12:01	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 12:01	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 12:01	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 12:01	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 12:01	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-5
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 4:10:00 PM
Lab ID:	2112I55-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:01	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 12:01	CM
Surr: 4-Bromofluorobenzene	111	74.9-127		%REC	327663	1	12/18/2021 12:01	CM
Surr: Dibromofluoromethane	119	78.9-121		%REC	327663	1	12/18/2021 12:01	CM
Surr: Toluene-d8	95.5	81.5-120		%REC	327663	1	12/18/2021 12:01	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-6
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:40:00 PM
Lab ID:	2112I55-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 12:26	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 12:26	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 12:26	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 12:26	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 12:26	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 12:26	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 12:26	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 12:26	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 12:26	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 12:26	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 12:26	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 12:26	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 12:26	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-6
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:40:00 PM
Lab ID:	2112I55-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:26	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 12:26	CM
Surr: 4-Bromofluorobenzene	100	74.9-127		%REC	327663	1	12/18/2021 12:26	CM
Surr: Dibromofluoromethane	94.8	78.9-121		%REC	327663	1	12/18/2021 12:26	CM
Surr: Toluene-d8	95.8	81.5-120		%REC	327663	1	12/18/2021 12:26	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-7
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:30:00 PM
Lab ID:	2112I55-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 12:51	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 12:51	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 12:51	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 12:51	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 12:51	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 12:51	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 12:51	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 12:51	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 12:51	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 12:51	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 12:51	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 12:51	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 12:51	CM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-7
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:30:00 PM
Lab ID:	2112I55-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 12:51	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 12:51	CM
Surr: 4-Bromofluorobenzene	105	74.9-127		%REC	327663	1	12/18/2021 12:51	CM
Surr: Dibromofluoromethane	115	78.9-121		%REC	327663	1	12/18/2021 12:51	CM
Surr: Toluene-d8	94.5	81.5-120		%REC	327663	1	12/18/2021 12:51	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:50:00 PM
Lab ID:	2112I55-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 13:16	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 13:16	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 13:16	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 13:16	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 13:16	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 13:16	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 13:16	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 13:16	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 13:16	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 13:16	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 13:16	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 13:16	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 13:16	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:50:00 PM
Lab ID:	2112I55-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 13:16	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 13:16	CM
Surr: 4-Bromofluorobenzene	103	74.9-127		%REC	327663	1	12/18/2021 13:16	CM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327663	1	12/18/2021 13:16	CM
Surr: Toluene-d8	96.4	81.5-120		%REC	327663	1	12/18/2021 13:16	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-11
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:35:00 PM
Lab ID:	2112I55-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 13:42	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 13:42	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 13:42	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 13:42	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 13:42	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 13:42	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 13:42	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 13:42	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 13:42	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 13:42	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 13:42	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 13:42	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 13:42	CM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-11
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:35:00 PM
Lab ID:	2112I55-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 13:42	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 13:42	CM
Surr: 4-Bromofluorobenzene	98.7	74.9-127		%REC	327663	1	12/18/2021 13:42	CM
Surr: Dibromofluoromethane	92.3	78.9-121		%REC	327663	1	12/18/2021 13:42	CM
Surr: Toluene-d8	95.5	81.5-120		%REC	327663	1	12/18/2021 13:42	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-12
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:15:00 PM
Lab ID:	2112I55-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 14:07	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 14:07	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 14:07	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 14:07	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 14:07	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 14:07	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 14:07	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 14:07	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 14:07	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 14:07	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 14:07	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 14:07	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 14:07	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-12
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:15:00 PM
Lab ID:	2112I55-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 14:07	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 14:07	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327663	1	12/18/2021 14:07	CM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327663	1	12/18/2021 14:07	CM
Surr: Toluene-d8	97.3	81.5-120		%REC	327663	1	12/18/2021 14:07	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-12A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:00:00 PM
Lab ID:	2112I55-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/20/2021 17:54	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/20/2021 17:54	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
2-Butanone	BRL	100		ug/L	327663	1	12/20/2021 17:54	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/20/2021 17:54	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/20/2021 17:54	CM
Acetone	BRL	100		ug/L	327663	1	12/20/2021 17:54	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/20/2021 17:54	CM
Benzene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Bromoform	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Bromomethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/20/2021 17:54	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Chloromethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Iodomethane	BRL	100		ug/L	327663	1	12/20/2021 17:54	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/20/2021 17:54	CM
Styrene	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Toluene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/20/2021 17:54	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/20/2021 17:54	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/20/2021 17:54	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-12A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 3:00:00 PM
Lab ID:	2112I55-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/20/2021 17:54	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/20/2021 17:54	CM
Surr: 4-Bromofluorobenzene	104	74.9-127		%REC	327663	1	12/20/2021 17:54	CM
Surr: Dibromofluoromethane	97.2	78.9-121		%REC	327663	1	12/20/2021 17:54	CM
Surr: Toluene-d8	96.2	81.5-120		%REC	327663	1	12/20/2021 17:54	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-22
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:55:00 PM
Lab ID:	2112I55-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 14:57	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 14:57	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 14:57	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 14:57	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 14:57	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 14:57	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 14:57	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 14:57	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 14:57	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 14:57	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 14:57	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 14:57	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 14:57	CM

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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-22
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:55:00 PM
Lab ID:	2112I55-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 14:57	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 14:57	CM
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	327663	1	12/18/2021 14:57	CM
Surr: Dibromofluoromethane	98.5	78.9-121		%REC	327663	1	12/18/2021 14:57	CM
Surr: Toluene-d8	96.6	81.5-120		%REC	327663	1	12/18/2021 14:57	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-23
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:00:00 PM
Lab ID:	2112I55-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 15:21	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 15:21	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 15:21	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 15:21	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 15:21	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 15:21	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 15:21	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 15:21	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 15:21	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 15:21	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 15:21	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 15:21	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 15:21	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-23
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:00:00 PM
Lab ID:	2112I55-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 15:21	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 15:21	CM
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	327663	1	12/18/2021 15:21	CM
Surr: Dibromofluoromethane	113	78.9-121		%REC	327663	1	12/18/2021 15:21	CM
Surr: Toluene-d8	94.1	81.5-120		%REC	327663	1	12/18/2021 15:21	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-23A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:35:00 PM
Lab ID:	2112I55-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 16:36	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 16:36	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 16:36	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 16:36	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 16:36	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 16:36	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 16:36	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 16:36	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 16:36	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 16:36	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Tetrachloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 16:36	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 16:36	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 16:36	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-23A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 12:35:00 PM
Lab ID:	2112I55-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 16:36	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 16:36	CM
Surr: 4-Bromofluorobenzene	105	74.9-127		%REC	327663	1	12/18/2021 16:36	CM
Surr: Dibromofluoromethane	117	78.9-121		%REC	327663	1	12/18/2021 16:36	CM
Surr: Toluene-d8	96.7	81.5-120		%REC	327663	1	12/18/2021 16:36	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-12
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:15:00 AM
Lab ID:	2112I55-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327663	1	12/18/2021 17:02	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327663	1	12/18/2021 17:02	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
2-Butanone	BRL	100		ug/L	327663	1	12/18/2021 17:02	CM
2-Hexanone	BRL	50		ug/L	327663	1	12/18/2021 17:02	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327663	1	12/18/2021 17:02	CM
Acetone	BRL	100		ug/L	327663	1	12/18/2021 17:02	CM
Acrylonitrile	BRL	50		ug/L	327663	1	12/18/2021 17:02	CM
Benzene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Bromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Bromodichloromethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Bromoform	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Bromomethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Carbon disulfide	BRL	5.0		ug/L	327663	1	12/18/2021 17:02	CM
Carbon tetrachloride	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Chlorobenzene	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Chloroethane	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Chloroform	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Chloromethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Dibromochloromethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Dibromomethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Ethylbenzene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Iodomethane	BRL	100		ug/L	327663	1	12/18/2021 17:02	CM
Methylene chloride	BRL	5.0		ug/L	327663	1	12/18/2021 17:02	CM
Styrene	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Tetrachloroethene	2.4	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Toluene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327663	1	12/18/2021 17:02	CM
Trichloroethene	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Trichlorofluoromethane	BRL	10		ug/L	327663	1	12/18/2021 17:02	CM
Vinyl acetate	BRL	100		ug/L	327663	1	12/18/2021 17:02	CM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-12
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 1:15:00 AM
Lab ID:	2112I55-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327663	1	12/18/2021 17:02	CM
Xylenes, Total	BRL	5.0		ug/L	327663	1	12/18/2021 17:02	CM
Surr: 4-Bromofluorobenzene	99.3	74.9-127		%REC	327663	1	12/18/2021 17:02	CM
Surr: Dibromofluoromethane	94.1	78.9-121		%REC	327663	1	12/18/2021 17:02	CM
Surr: Toluene-d8	94.9	81.5-120		%REC	327663	1	12/18/2021 17:02	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-12R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:00:00 PM
Lab ID:	2112I55-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,1-Dichloroethane	2.3	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/18/2021 22:03	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/18/2021 22:03	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
2-Butanone	BRL	100		ug/L	327664	1	12/18/2021 22:03	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/18/2021 22:03	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/18/2021 22:03	CM
Acetone	BRL	100		ug/L	327664	1	12/18/2021 22:03	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/18/2021 22:03	CM
Benzene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Bromoform	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Bromomethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/18/2021 22:03	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Chloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
cis-1,2-Dichloroethene	2.3	2.0		ug/L	327664	1	12/18/2021 22:03	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Iodomethane	BRL	100		ug/L	327664	1	12/18/2021 22:03	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/18/2021 22:03	CM
Styrene	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Tetrachloroethene	9.2	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Toluene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/18/2021 22:03	CM
Trichloroethene	2.2	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/18/2021 22:03	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/18/2021 22:03	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-12R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:00:00 PM
Lab ID:	2112I55-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/18/2021 22:03	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/18/2021 22:03	CM
Surr: 4-Bromofluorobenzene	99.7	74.9-127		%REC	327664	1	12/18/2021 22:03	CM
Surr: Dibromofluoromethane	96.2	78.9-121		%REC	327664	1	12/18/2021 22:03	CM
Surr: Toluene-d8	94.5	81.5-120		%REC	327664	1	12/18/2021 22:03	CM

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4B
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:25:00 PM
Lab ID:	2112I55-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 13:47	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 13:47	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 13:47	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 13:47	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 13:47	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 13:47	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 13:47	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 13:47	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 13:47	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 13:47	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 13:47	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 13:47	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 13:47	CM

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4B
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/13/2021 2:25:00 PM
Lab ID:	2112I55-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 13:47	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 13:47	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 13:47	CM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327664	1	12/19/2021 13:47	CM
Surr: Toluene-d8	97.5	81.5-120		%REC	327664	1	12/19/2021 13:47	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:10:00 AM
Lab ID:	2112I55-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	105	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	2.8	0.50		mg/L	R473051	1	12/16/2021 03:28	KV
Nitrate	BRL	0.25		mg/L	R473051	1	12/16/2021 03:28	KV
Sulfate	2.7	1.0		mg/L	R473051	1	12/16/2021 03:28	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,1-Dichloroethane	2.9	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/18/2021 22:53	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/18/2021 22:53	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
2-Butanone	BRL	100		ug/L	327664	1	12/18/2021 22:53	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/18/2021 22:53	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/18/2021 22:53	CM
Acetone	BRL	100		ug/L	327664	1	12/18/2021 22:53	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/18/2021 22:53	CM
Benzene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Bromoform	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Bromomethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/18/2021 22:53	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Chloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
cis-1,2-Dichloroethene	6.7	2.0		ug/L	327664	1	12/18/2021 22:53	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Iodomethane	BRL	100		ug/L	327664	1	12/18/2021 22:53	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/18/2021 22:53	CM
Styrene	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:10:00 AM
Lab ID:	2112I55-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	2.9	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Toluene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/18/2021 22:53	CM
Trichloroethene	3.0	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/18/2021 22:53	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/18/2021 22:53	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/18/2021 22:53	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/18/2021 22:53	CM
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	327664	1	12/18/2021 22:53	CM
Surr: Dibromofluoromethane	119	78.9-121		%REC	327664	1	12/18/2021 22:53	CM
Surr: Toluene-d8	93.9	81.5-120		%REC	327664	1	12/18/2021 22:53	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	69.7	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-12
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:30:00 PM
Lab ID:	2112I55-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:37	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:37	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:37	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:37	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:37	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:37	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:37	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:37	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:37	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:37	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:37	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:37	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:37	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:37	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:37	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-12A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:35:00 PM
Lab ID:	2112I55-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:39	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:39	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:39	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:39	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:39	EA
Chromium	0.0184	0.0100		mg/L	327609	1	12/21/2021 16:39	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:39	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:39	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:39	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:39	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:39	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:39	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:39	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:39	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:39	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-11
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:45:00 PM
Lab ID:	2112I55-026	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:42	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:42	EA
Barium	0.0233	0.0200		mg/L	327609	1	12/21/2021 16:42	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:42	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:42	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:42	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:42	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:42	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:42	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:42	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:42	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:42	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:42	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:42	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:42	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:50:00 PM
Lab ID:	2112I55-027	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:44	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:44	EA
Barium	0.100	0.0200		mg/L	327609	1	12/21/2021 16:44	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:44	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:44	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:44	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:44	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:44	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:44	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:44	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:44	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:44	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:44	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:44	EA
Zinc	0.0499	0.0200		mg/L	327609	1	12/21/2021 16:44	EA

Qualifiers:

*	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.	**Client Sample ID:**	AMW-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:05:00 PM
Lab ID:	2112I55-028	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	99	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	1.9	0.50		mg/L	R472827	1	12/16/2021 07:04	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 07:04	KV
Sulfate	1.6	1.0		mg/L	R472827	1	12/16/2021 07:04	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,1-Dichloroethane	39	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 14:12	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 14:12	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 14:12	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 14:12	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 14:12	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 14:12	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 14:12	CM
Benzene	3.7	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 14:12	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
cis-1,2-Dichloroethene	140	2.0		ug/L	327664	1	12/19/2021 14:12	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 14:12	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 14:12	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:05:00 PM
Lab ID:	2112I55-028	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	12	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 14:12	CM
Trichloroethene	48	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 14:12	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 14:12	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 14:12	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 14:12	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 14:12	CM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327664	1	12/19/2021 14:12	CM
Surr: Toluene-d8	96	81.5-120		%REC	327664	1	12/19/2021 14:12	CM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:47	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:47	EA
Barium	0.0734	0.0200		mg/L	327609	1	12/21/2021 16:47	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:47	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:47	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:47	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:47	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:47	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:47	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:47	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:47	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:47	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:47	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:47	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:47	EA
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	77.2	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:10:00 PM
Lab ID:	2112I55-029	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	179	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	4.4	0.50		mg/L	R472827	1	12/16/2021 07:58	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 07:58	KV
Sulfate	3.1	1.0		mg/L	R472827	1	12/16/2021 07:58	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,1-Dichloroethane	14	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/18/2021 23:42	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/18/2021 23:42	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
2-Butanone	BRL	100		ug/L	327664	1	12/18/2021 23:42	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/18/2021 23:42	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/18/2021 23:42	CM
Acetone	BRL	100		ug/L	327664	1	12/18/2021 23:42	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/18/2021 23:42	CM
Benzene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Bromoform	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Bromomethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/18/2021 23:42	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Chloromethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
cis-1,2-Dichloroethene	24	2.0		ug/L	327664	1	12/18/2021 23:42	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Iodomethane	BRL	100		ug/L	327664	1	12/18/2021 23:42	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/18/2021 23:42	CM
Styrene	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:10:00 PM
Lab ID:	2112I55-029	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Toluene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/18/2021 23:42	CM
Trichloroethene	2.8	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/18/2021 23:42	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/18/2021 23:42	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/18/2021 23:42	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/18/2021 23:42	CM
Surr: 4-Bromofluorobenzene	99.3	74.9-127		%REC	327664	1	12/18/2021 23:42	CM
Surr: Dibromofluoromethane	103	78.9-121		%REC	327664	1	12/18/2021 23:42	CM
Surr: Toluene-d8	95.9	81.5-120		%REC	327664	1	12/18/2021 23:42	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	146	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:55:00 PM
Lab ID:	2112I55-030	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	170	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	16	0.50		mg/L	R472827	1	12/16/2021 09:25	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 09:25	KV
Sulfate	3.4	1.0		mg/L	R472827	1	12/16/2021 09:25	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,1-Dichloroethane	13	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 00:07	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 00:07	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 00:07	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 00:07	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 00:07	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 00:07	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 00:07	CM
Benzene	3.0	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 00:07	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Chlorobenzene	15	10		ug/L	327664	1	12/19/2021 00:07	CM
Chloroethane	5.0	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
cis-1,2-Dichloroethene	77	2.0		ug/L	327664	1	12/19/2021 00:07	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 00:07	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 00:07	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM

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.	**Client Sample ID:**	GWC-14A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:55:00 PM
Lab ID:	2112I55-030	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 00:07	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 00:07	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 00:07	CM
Vinyl chloride	19	2.0		ug/L	327664	1	12/19/2021 00:07	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 00:07	CM
Surr: 4-Bromofluorobenzene	104	74.9-127		%REC	327664	1	12/19/2021 00:07	CM
Surr: Dibromofluoromethane	119	78.9-121		%REC	327664	1	12/19/2021 00:07	CM
Surr: Toluene-d8	98.7	81.5-120		%REC	327664	1	12/19/2021 00:07	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	147	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	Field Blank 1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 3:10:00 PM
Lab ID:	2112I55-031	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 00:32	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 00:32	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 00:32	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 00:32	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 00:32	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 00:32	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 00:32	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 00:32	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 00:32	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 00:32	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 00:32	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 00:32	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 00:32	CM

Qualifiers:

*	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.	**Client Sample ID:**	Field Blank 1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 3:10:00 PM
Lab ID:	2112I55-031	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 00:32	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 00:32	CM
Surr: 4-Bromofluorobenzene	98.9	74.9-127		%REC	327664	1	12/19/2021 00:32	CM
Surr: Dibromofluoromethane	97.2	78.9-121		%REC	327664	1	12/19/2021 00:32	CM
Surr: Toluene-d8	95.3	81.5-120		%REC	327664	1	12/19/2021 00:32	CM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:11	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:11	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:11	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:11	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:11	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:11	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:11	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:11	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:11	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:11	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:11	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:11	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:11	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:11	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:11	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:25:00 AM
Lab ID:	2112I55-032	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:49	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:49	EA
Barium	0.0228	0.0200		mg/L	327609	1	12/21/2021 16:49	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:49	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:49	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:49	EA
Cobalt	0.111	0.0400		mg/L	327609	1	12/21/2021 16:49	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:49	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:49	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:49	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:49	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:49	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:49	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:49	EA
Zinc	0.0310	0.0200		mg/L	327609	1	12/21/2021 16:49	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-1A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:55:00 AM
Lab ID:	2112I55-033	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:51	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:51	EA
Barium	0.0226	0.0200		mg/L	327609	1	12/21/2021 16:51	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:51	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:51	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:51	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:51	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:51	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:51	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:51	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:51	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:51	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:51	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:51	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:51	EA

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:35:00 AM
Lab ID:	2112I55-034	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	68	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	3.6	0.50		mg/L	R472635	1	12/15/2021 17:26	KV
Nitrate	BRL	0.25		mg/L	R472635	1	12/15/2021 17:26	KV
Sulfate	1.3	1.0		mg/L	R472635	1	12/15/2021 17:26	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 14:38	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 14:38	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 14:38	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 14:38	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 14:38	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 14:38	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 14:38	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 14:38	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
cis-1,2-Dichloroethene	35	2.0		ug/L	327664	1	12/19/2021 14:38	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 14:38	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 14:38	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:35:00 AM
Lab ID:	2112I55-034	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 14:38	CM
Trichloroethene	2.0	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 14:38	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 14:38	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 14:38	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 14:38	CM
Surr: 4-Bromofluorobenzene	103	74.9-127		%REC	327664	1	12/19/2021 14:38	CM
Surr: Dibromofluoromethane	99.5	78.9-121		%REC	327664	1	12/19/2021 14:38	CM
Surr: Toluene-d8	97.8	81.5-120		%REC	327664	1	12/19/2021 14:38	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	35.6	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:15:00 PM
Lab ID:	2112I55-035	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	16	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	1.5	0.50		mg/L	R472827	1	12/16/2021 06:31	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 06:31	KV
Sulfate	1.1	1.0		mg/L	R472827	1	12/16/2021 06:31	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 01:21	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 01:21	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 01:21	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 01:21	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 01:21	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 01:21	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 01:21	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 01:21	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 01:21	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 01:21	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:15:00 PM
Lab ID:	2112I55-035	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 01:21	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 01:21	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 01:21	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 01:21	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 01:21	CM
Surr: 4-Bromofluorobenzene	99.9	74.9-127		%REC	327664	1	12/19/2021 01:21	CM
Surr: Dibromofluoromethane	99.7	78.9-121		%REC	327664	1	12/19/2021 01:21	CM
Surr: Toluene-d8	96.4	81.5-120		%REC	327664	1	12/19/2021 01:21	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	6.71	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWB-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:10:00 AM
Lab ID:	2112I55-036	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:54	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:54	EA
Barium	0.0568	0.0200		mg/L	327609	1	12/21/2021 16:54	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:54	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:54	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:54	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:54	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:54	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:54	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:54	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:54	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:54	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:54	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:54	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 16:54	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWB-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:05:00 AM
Lab ID:	2112I55-037	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 16:56	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 16:56	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:56	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 16:56	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 16:56	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:56	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 16:56	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 16:56	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 16:56	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 16:56	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 16:56	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 16:56	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 16:56	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 16:56	EA
Zinc	0.0238	0.0200		mg/L	327609	1	12/21/2021 16:56	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-9
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:15:00 AM
Lab ID:	2112I55-038	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:08	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:08	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:08	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:08	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:08	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:08	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:08	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:08	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:08	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:08	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:08	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:08	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:08	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:08	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:08	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-1
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:40:00 AM
Lab ID:	2112I55-039	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:11	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:11	EA
Barium	0.0241	0.0200		mg/L	327609	1	12/21/2021 17:11	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:11	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:11	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:11	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:11	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:11	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:11	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:11	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:11	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:11	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:11	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:11	EA
Zinc	0.0223	0.0200		mg/L	327609	1	12/21/2021 17:11	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:50:00 AM
Lab ID:	2112I55-040	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:13	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:13	EA
Barium	0.0249	0.0200		mg/L	327609	1	12/21/2021 17:13	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:13	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:13	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:13	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:13	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:13	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:13	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:13	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:13	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:13	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:13	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:13	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:13	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWA-3
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:48:00 PM
Lab ID:	2112I55-041	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 01:46	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 01:46	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 01:46	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 01:46	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 01:46	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 01:46	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 01:46	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 01:46	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 01:46	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 01:46	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 01:46	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 01:46	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 01:46	CM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-3
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 12:48:00 PM
Lab ID:	2112I55-041	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 01:46	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 01:46	CM
Surr: 4-Bromofluorobenzene	104	74.9-127		%REC	327664	1	12/19/2021 01:46	CM
Surr: Dibromofluoromethane	119	78.9-121		%REC	327664	1	12/19/2021 01:46	CM
Surr: Toluene-d8	99.7	81.5-120		%REC	327664	1	12/19/2021 01:46	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:20:00 PM
Lab ID:	2112I55-042	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 02:11	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 02:11	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 02:11	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 02:11	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 02:11	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 02:11	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 02:11	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 02:11	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 02:11	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 02:11	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 02:11	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 02:11	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 02:11	CM

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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:20:00 PM
Lab ID:	2112I55-042	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 02:11	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 02:11	CM
Surr: 4-Bromofluorobenzene	103	74.9-127		%REC	327664	1	12/19/2021 02:11	CM
Surr: Dibromofluoromethane	119	78.9-121		%REC	327664	1	12/19/2021 02:11	CM
Surr: Toluene-d8	96.1	81.5-120		%REC	327664	1	12/19/2021 02:11	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-17
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:35:00 PM
Lab ID:	2112I55-043	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	42	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	2.2	0.50		mg/L	R472827	1	12/16/2021 09:03	KV
Nitrate	0.95	0.25		mg/L	R472827	1	12/16/2021 09:03	KV
Sulfate	1.8	1.0		mg/L	R472827	1	12/16/2021 09:03	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 02:36	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 02:36	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 02:36	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 02:36	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 02:36	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 02:36	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 02:36	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 02:36	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
cis-1,2-Dichloroethene	7.6	2.0		ug/L	327664	1	12/19/2021 02:36	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 02:36	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 02:36	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-17
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:35:00 PM
Lab ID:	2112I55-043	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 02:36	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 02:36	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 02:36	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 02:36	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 02:36	CM
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	327664	1	12/19/2021 02:36	CM
Surr: Dibromofluoromethane	109	78.9-121		%REC	327664	1	12/19/2021 02:36	CM
Surr: Toluene-d8	97.5	81.5-120		%REC	327664	1	12/19/2021 02:36	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	20.2	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-24
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:20:00 PM
Lab ID:	2112I55-044	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	44	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	1.7	0.50		mg/L	R472827	1	12/16/2021 08:52	KV
Nitrate	0.43	0.25		mg/L	R472827	1	12/16/2021 08:52	KV
Sulfate	2.1	1.0		mg/L	R472827	1	12/16/2021 08:52	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 03:02	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 03:02	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 03:02	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 03:02	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 03:02	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 03:02	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 03:02	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 03:02	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 03:02	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 03:02	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-24
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:20:00 PM
Lab ID:	2112I55-044	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 03:02	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 03:02	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 03:02	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:02	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 03:02	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 03:02	CM
Surr: Dibromofluoromethane	95.6	78.9-121		%REC	327664	1	12/19/2021 03:02	CM
Surr: Toluene-d8	95.1	81.5-120		%REC	327664	1	12/19/2021 03:02	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	24.6	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-5
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:55:00 AM
Lab ID:	2112I55-045	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:15	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:15	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:15	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:15	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:15	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:15	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:15	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:15	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:15	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:15	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:15	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:15	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:15	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:15	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:15	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-6
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:35:00 AM
Lab ID:	2112I55-046	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:18	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:18	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:18	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:18	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:18	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:18	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:18	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:18	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:18	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:18	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:18	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:18	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:18	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:18	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:18	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-7
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:45:00 AM
Lab ID:	2112I55-047	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:20	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:20	EA
Barium	0.0418	0.0200		mg/L	327609	1	12/21/2021 17:20	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:20	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:20	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:20	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:20	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:20	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:20	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:20	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:20	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:20	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:20	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:20	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:20	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-18
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:50:00 PM
Lab ID:	2112I55-048	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	52	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	4.2	0.50		mg/L	R472827	1	12/16/2021 07:37	KV
Nitrate	0.49	0.25		mg/L	R472827	1	12/16/2021 07:37	KV
Sulfate	1.3	1.0		mg/L	R472827	1	12/16/2021 07:37	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 03:27	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 03:27	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 03:27	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 03:27	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 03:27	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 03:27	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 03:27	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 03:27	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
cis-1,2-Dichloroethene	10	2.0		ug/L	327664	1	12/19/2021 03:27	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 03:27	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 03:27	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM

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.	**Client Sample ID:**	GWC-18
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:50:00 PM
Lab ID:	2112I55-048	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	3.4	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 03:27	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 03:27	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 03:27	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:27	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 03:27	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 03:27	CM
Surr: Dibromofluoromethane	96.6	78.9-121		%REC	327664	1	12/19/2021 03:27	CM
Surr: Toluene-d8	95.5	81.5-120		%REC	327664	1	12/19/2021 03:27	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	23.1	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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.	**Client Sample ID:**	GWC-19R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:45:00 PM
Lab ID:	2112I55-049	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	60	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	1.9	0.50		mg/L	R472827	1	12/16/2021 09:14	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 09:14	KV
Sulfate	2.5	1.0		mg/L	R472827	1	12/16/2021 09:14	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 03:53	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 03:53	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 03:53	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 03:53	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 03:53	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 03:53	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 03:53	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 03:53	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
cis-1,2-Dichloroethene	7.9	2.0		ug/L	327664	1	12/19/2021 03:53	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 03:53	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 03:53	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-19R
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 2:45:00 PM
Lab ID:	2112I55-049	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 03:53	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 03:53	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 03:53	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 03:53	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 03:53	CM
Surr: 4-Bromofluorobenzene	99	74.9-127		%REC	327664	1	12/19/2021 03:53	CM
Surr: Dibromofluoromethane	96.1	78.9-121		%REC	327664	1	12/19/2021 03:53	CM
Surr: Toluene-d8	95.7	81.5-120		%REC	327664	1	12/19/2021 03:53	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	43.4	3.00		mg/L	R472769	1	12/16/2021 10:36	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-22
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:20:00 AM
Lab ID:	2112I55-050	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:22	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:22	EA
Barium	0.0246	0.0200		mg/L	327609	1	12/21/2021 17:22	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:22	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:22	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:22	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:22	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:22	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:22	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:22	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:22	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:22	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:22	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:22	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:22	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-23
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:15:00 AM
Lab ID:	2112I55-051	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:25	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:25	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:25	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:25	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:25	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:25	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:25	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:25	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:25	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:25	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:25	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:25	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:25	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:25	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:25	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-23A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 9:10:00 AM
Lab ID:	2112I55-052	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327609	1	12/21/2021 17:27	EA
Arsenic	BRL	0.0100		mg/L	327609	1	12/21/2021 17:27	EA
Barium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:27	EA
Beryllium	BRL	0.00300		mg/L	327609	1	12/21/2021 17:27	EA
Cadmium	BRL	0.00500		mg/L	327609	1	12/21/2021 17:27	EA
Chromium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:27	EA
Cobalt	BRL	0.0400		mg/L	327609	1	12/21/2021 17:27	EA
Copper	BRL	0.0200		mg/L	327609	1	12/21/2021 17:27	EA
Lead	BRL	0.0150		mg/L	327609	1	12/21/2021 17:27	EA
Nickel	BRL	0.0200		mg/L	327609	1	12/21/2021 17:27	EA
Selenium	BRL	0.0100		mg/L	327609	1	12/21/2021 17:27	EA
Silver	BRL	0.0100		mg/L	327609	1	12/21/2021 17:27	EA
Thallium	BRL	0.00200		mg/L	327609	1	12/21/2021 17:27	EA
Vanadium	BRL	0.0200		mg/L	327609	1	12/21/2021 17:27	EA
Zinc	BRL	0.0200		mg/L	327609	1	12/21/2021 17:27	EA

Qualifiers:

*	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.	**Client Sample ID:**	AMW-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:40:00 AM
Lab ID:	2112I55-053	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	61	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	3.0	0.50		mg/L	R473051	1	12/16/2021 01:40	KV
Nitrate	0.28	0.25		mg/L	R473051	1	12/16/2021 01:40	KV
Sulfate	1.5	1.0		mg/L	R473051	1	12/16/2021 01:40	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 04:18	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 04:18	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 04:18	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 04:18	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 04:18	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 04:18	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 04:18	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 04:18	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
cis-1,2-Dichloroethene	13	2.0		ug/L	327664	1	12/19/2021 04:18	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 04:18	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 04:18	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-4
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 10:40:00 AM
Lab ID:	2112I55-053	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	3.4	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 04:18	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 04:18	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 04:18	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 04:18	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 04:18	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 04:18	CM
Surr: Dibromofluoromethane	98.3	78.9-121		%REC	327664	1	12/19/2021 04:18	CM
Surr: Toluene-d8	96.3	81.5-120		%REC	327664	1	12/19/2021 04:18	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	38.2	3.00		mg/L	R473124	1	12/20/2021 12:11	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-5
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:20:00 AM
Lab ID:	2112I55-054	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	57	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	3.4	0.50		mg/L	R472635	1	12/15/2021 17:15	KV
Nitrate	BRL	0.25		mg/L	R472635	1	12/15/2021 17:15	KV
Sulfate	3.1	1.0		mg/L	R472635	1	12/15/2021 17:15	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 04:44	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 04:44	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 04:44	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 04:44	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 04:44	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 04:44	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 04:44	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 04:44	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
cis-1,2-Dichloroethene	2.0	2.0		ug/L	327664	1	12/19/2021 04:44	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 04:44	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 04:44	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-5
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 11:20:00 AM
Lab ID:	2112I55-054	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 04:44	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 04:44	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 04:44	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 04:44	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 04:44	CM
Surr: 4-Bromofluorobenzene	102	74.9-127		%REC	327664	1	12/19/2021 04:44	CM
Surr: Dibromofluoromethane	98	78.9-121		%REC	327664	1	12/19/2021 04:44	CM
Surr: Toluene-d8	97.1	81.5-120		%REC	327664	1	12/19/2021 04:44	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	34.4	3.00		mg/L	R473124	1	12/20/2021 12:11	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-14
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:10:00 PM
Lab ID:	2112I55-055	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	64	10		mg/L	327395	1	12/16/2021 11:00	NN
ION SCAN SW9056A								
Chloride	3.5	0.50		mg/L	R472827	1	12/16/2021 07:15	KV
Nitrate	BRL	0.25		mg/L	R472827	1	12/16/2021 07:15	KV
Sulfate	2.9	1.0		mg/L	R472827	1	12/16/2021 07:15	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 05:09	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 05:09	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 05:09	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 05:09	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 05:09	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 05:09	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 05:09	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 05:09	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 05:09	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 05:09	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-14
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021 1:10:00 PM
Lab ID:	2112I55-055	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 05:09	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 05:09	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 05:09	CM
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 05:09	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 05:09	CM
Surr: 4-Bromofluorobenzene	100	74.9-127		%REC	327664	1	12/19/2021 05:09	CM
Surr: Dibromofluoromethane	97.4	78.9-121		%REC	327664	1	12/19/2021 05:09	CM
Surr: Toluene-d8	95.8	81.5-120		%REC	327664	1	12/19/2021 05:09	CM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	34.7	3.00		mg/L	R473124	1	12/20/2021 12:11	GY

Qualifiers:

*	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.	**Client Sample ID:**	Trip Blank
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021
Lab ID:	2112I55-056	**Matrix:**	Trip Blank

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,1-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,1-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,2,3-Trichloropropane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327664	1	12/19/2021 05:34	CM
1,2-Dibromoethane	BRL	1.0		ug/L	327664	1	12/19/2021 05:34	CM
1,2-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
1,2-Dichloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,2-Dichloropropane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
1,4-Dichlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
2-Butanone	BRL	100		ug/L	327664	1	12/19/2021 05:34	CM
2-Hexanone	BRL	50		ug/L	327664	1	12/19/2021 05:34	CM
4-Methyl-2-pentanone	BRL	50		ug/L	327664	1	12/19/2021 05:34	CM
Acetone	BRL	100		ug/L	327664	1	12/19/2021 05:34	CM
Acrylonitrile	BRL	50		ug/L	327664	1	12/19/2021 05:34	CM
Benzene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Bromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Bromodichloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Bromoform	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Bromomethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Carbon disulfide	BRL	5.0		ug/L	327664	1	12/19/2021 05:34	CM
Carbon tetrachloride	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Chlorobenzene	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Chloroethane	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Chloroform	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Chloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Dibromochloromethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Dibromomethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Ethylbenzene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Iodomethane	BRL	100		ug/L	327664	1	12/19/2021 05:34	CM
Methylene chloride	BRL	5.0		ug/L	327664	1	12/19/2021 05:34	CM
Styrene	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Tetrachloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Toluene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327664	1	12/19/2021 05:34	CM
Trichloroethene	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Trichlorofluoromethane	BRL	10		ug/L	327664	1	12/19/2021 05:34	CM
Vinyl acetate	BRL	100		ug/L	327664	1	12/19/2021 05:34	CM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 22-Dec-21

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	Trip Blank
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/14/2021
Lab ID:	2112I55-056	**Matrix:**	Trip Blank

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327664	1	12/19/2021 05:34	CM
Xylenes, Total	BRL	5.0		ug/L	327664	1	12/19/2021 05:34	CM
Surr: 4-Bromofluorobenzene	101	74.9-127		%REC	327664	1	12/19/2021 05:34	CM
Surr: Dibromofluoromethane	107	78.9-121		%REC	327664	1	12/19/2021 05:34	CM
Surr: Toluene-d8	96.6	81.5-120		%REC	327664	1	12/19/2021 05:34	CM

Qualifiers:

*	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2112I55**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

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

13. Cooler 1 Temperature 3.5 °C Cooler 2 Temperature 3.6 °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). CP2 12/14/21

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

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). SH 12/16/21

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? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* 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). SH 12/16/21

Locked

Analytical Environmental Services, Inc

Date: 22-Dec-21

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Lab Order: 2112I55

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112I55-001A	PH1-GWA-1	12/13/2021 12:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-001B	PH1-GWA-1	12/13/2021 12:15:00PM	Groundwater	ION SCAN			12/14/2021
2112I55-001B	PH1-GWA-1	12/13/2021 12:15:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-001B	PH1-GWA-1	12/13/2021 12:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-002A	PH1-GWA-1A	12/13/2021 3:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-003A	PH1-GWB-1	12/13/2021 11:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/19/2021
2112I55-004A	PH1-GWB-2	12/13/2021 12:54:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/19/2021
2112I55-005A	PH1-GWC-3	12/14/2021 10:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-005B	PH1-GWC-3	12/14/2021 10:05:00AM	Groundwater	ION SCAN			12/16/2021
2112I55-005B	PH1-GWC-3	12/14/2021 10:05:00AM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-005B	PH1-GWC-3	12/14/2021 10:05:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-006A	PH1-GWC-3A	12/14/2021 9:50:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/19/2021
2112I55-006B	PH1-GWC-3A	12/14/2021 9:50:00AM	Groundwater	ION SCAN			12/15/2021
2112I55-006B	PH1-GWC-3A	12/14/2021 9:50:00AM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-006B	PH1-GWC-3A	12/14/2021 9:50:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-007A	AMW-9	12/13/2021 1:16:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-008A	GWA-1	12/13/2021 3:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-009A	GWA-2	12/13/2021 4:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-010A	GWC-5	12/13/2021 4:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-011A	GWC-6	12/13/2021 2:40:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-012A	GWC-7	12/13/2021 3:30:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-013A	GWC-9	12/13/2021 3:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-014A	GWC-11	12/13/2021 3:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-015A	GWC-12	12/13/2021 3:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-016A	GWC-12A	12/13/2021 3:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/20/2021
2112I55-017A	GWC-22	12/13/2021 1:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-018A	GWC-23	12/13/2021 1:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-019A	GWC-23A	12/13/2021 12:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021
2112I55-020A	AMW-12	12/13/2021 1:15:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 6:49:00AM	12/18/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Lab Order: 2112I55

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112I55-021A	AMW-12R	12/13/2021 2:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/18/2021
2112I55-022A	SWC-4B	12/13/2021 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-023A	PH1-GWC-2	12/14/2021 11:10:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/18/2021
2112I55-023B	PH1-GWC-2	12/14/2021 11:10:00AM	Groundwater	ION SCAN			12/16/2021
2112I55-023B	PH1-GWC-2	12/14/2021 11:10:00AM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-023B	PH1-GWC-2	12/14/2021 11:10:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-024A	GWC-12	12/14/2021 12:30:00PM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-025A	GWC-12A	12/14/2021 12:35:00PM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-026A	GWC-11	12/14/2021 12:45:00PM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-027A	GWC-9	12/14/2021 12:50:00PM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-028A	AMW-1	12/14/2021 1:05:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-028B	AMW-1	12/14/2021 1:05:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-028B	AMW-1	12/14/2021 1:05:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-028B	AMW-1	12/14/2021 1:05:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-028C	AMW-1	12/14/2021 1:05:00PM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-029A	GWC-14R	12/14/2021 2:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/18/2021
2112I55-029B	GWC-14R	12/14/2021 2:10:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-029B	GWC-14R	12/14/2021 2:10:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-029B	GWC-14R	12/14/2021 2:10:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-030A	GWC-14A	12/14/2021 2:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-030B	GWC-14A	12/14/2021 2:55:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-030B	GWC-14A	12/14/2021 2:55:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-030B	GWC-14A	12/14/2021 2:55:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-031A	Field Blank 1	12/14/2021 3:10:00PM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-031B	Field Blank 1	12/14/2021 3:10:00PM	Aqueous	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-032A	PH1-GWA-1	12/14/2021 9:25:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-033A	PH1-GWA-1A	12/14/2021 9:55:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-034A	PH1-GWA-2	12/14/2021 11:35:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-034B	PH1-GWA-2	12/14/2021 11:35:00AM	Groundwater	ION SCAN			12/15/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Lab Order: 2112I55

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112I55-034B	PH1-GWA-2	12/14/2021 11:35:00AM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-034B	PH1-GWA-2	12/14/2021 11:35:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-035A	PH1-GWA-4	12/14/2021 12:15:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-035B	PH1-GWA-4	12/14/2021 12:15:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-035B	PH1-GWA-4	12/14/2021 12:15:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-035B	PH1-GWA-4	12/14/2021 12:15:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-036A	PH1-GWB-1	12/14/2021 9:10:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-037A	PH1-GWB-2	12/14/2021 10:05:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-038A	AMW-9	12/14/2021 10:15:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-039A	GWA-1	12/14/2021 10:40:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-040A	GWA-2	12/14/2021 10:50:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-041A	GWA-3	12/14/2021 12:48:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-042A	GWC-4	12/14/2021 1:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-043A	GWC-17	12/14/2021 2:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-043B	GWC-17	12/14/2021 2:35:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-043B	GWC-17	12/14/2021 2:35:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-043B	GWC-17	12/14/2021 2:35:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-044A	GWC-24	12/14/2021 2:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-044B	GWC-24	12/14/2021 2:20:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-044B	GWC-24	12/14/2021 2:20:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-044B	GWC-24	12/14/2021 2:20:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-045A	GWC-5	12/14/2021 9:55:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-046A	GWC-6	12/14/2021 9:35:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-047A	GWC-7	12/14/2021 9:45:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-048A	GWC-18	12/14/2021 1:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-048B	GWC-18	12/14/2021 1:50:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-048B	GWC-18	12/14/2021 1:50:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-048B	GWC-18	12/14/2021 1:50:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-049A	GWC-19R	12/14/2021 2:45:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021

Analytical Environmental Services, Inc

Date: 22-Dec-21

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Lab Order: 2112I55

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112I55-049B	GWC-19R	12/14/2021 2:45:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-049B	GWC-19R	12/14/2021 2:45:00PM	Groundwater	Alkalinity by SM2320B			12/16/2021
2112I55-049B	GWC-19R	12/14/2021 2:45:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-050A	GWC-22	12/14/2021 9:20:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-051A	GWC-23	12/14/2021 9:15:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-052A	GWC-23A	12/14/2021 9:10:00AM	Groundwater	APPENDIX I METALS		12/18/2021 9:43:00AM	12/21/2021
2112I55-053A	AMW-4	12/14/2021 10:40:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-053B	AMW-4	12/14/2021 10:40:00AM	Groundwater	ION SCAN			12/16/2021
2112I55-053B	AMW-4	12/14/2021 10:40:00AM	Groundwater	Alkalinity by SM2320B			12/20/2021
2112I55-053B	AMW-4	12/14/2021 10:40:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-054A	AMW-5	12/14/2021 11:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-054B	AMW-5	12/14/2021 11:20:00AM	Groundwater	ION SCAN			12/15/2021
2112I55-054B	AMW-5	12/14/2021 11:20:00AM	Groundwater	Alkalinity by SM2320B			12/20/2021
2112I55-054B	AMW-5	12/14/2021 11:20:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-055A	AMW-14	12/14/2021 1:10:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021
2112I55-055B	AMW-14	12/14/2021 1:10:00PM	Groundwater	ION SCAN			12/16/2021
2112I55-055B	AMW-14	12/14/2021 1:10:00PM	Groundwater	Alkalinity by SM2320B			12/20/2021
2112I55-055B	AMW-14	12/14/2021 1:10:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/16/2021 11:00:00AM	12/16/2021
2112I55-056A	Trip Blank	12/14/2021 12:00:00AM	Trip Blank	APPENDIX I VOLATILE ORGANICS		12/18/2021 5:52:00PM	12/19/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327395

Sample ID: **MB-327395**	Client ID:			Units: **mg/L**	Prep Date: **12/16/2021**	Run No: **472770**
SampleType: **MBLK**	TestCode: **Residue, Dissolved (TDS) by SM2540C**			BatchID: **327395**	Analysis Date: **12/16/2021**	Seq No: **10894961**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	BRL	10									

Sample ID: **LCS-327395**	Client ID:			Units: **mg/L**	Prep Date: **12/16/2021**	Run No: **472770**
SampleType: **LCS**	TestCode: **Residue, Dissolved (TDS) by SM2540C**			BatchID: **327395**	Analysis Date: **12/16/2021**	Seq No: **10894962**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	3016	40	3000		101	79	117				

Sample ID: **2112G87-001BDUP**	Client ID:			Units: **mg/L**	Prep Date: **12/16/2021**	Run No: **472770**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**			BatchID: **327395**	Analysis Date: **12/16/2021**	Seq No: **10894964**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	52.00	10						50.00	3.92	10	

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327609

Sample ID: **MB-327609** Client ID: Units: **mg/L** Prep Date: **12/18/2021** Run No: **473407**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327609** Analysis Date: **12/21/2021** Seq No: **10908093**

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	0.0150									
Nickel	BRL	0.0200									
Selenium	BRL	0.0100									
Silver	BRL	0.0100									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0200									
Zinc	BRL	0.0200									

Sample ID: **LCS-327609** Client ID: Units: **mg/L** Prep Date: **12/18/2021** Run No: **473407**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327609** Analysis Date: **12/21/2021** Seq No: **10908094**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1140	0.00600	0.1000		114	80	120				
Arsenic	0.09988	0.0100	0.1000		99.9	80	120				
Barium	0.1126	0.0200	0.1000		113	80	120				
Beryllium	0.09874	0.00400	0.1000		98.7	80	120				
Cadmium	0.1041	0.00500	0.1000		104	80	120				
Chromium	0.1196	0.0200	0.1000		120	80	120				
Lead	0.1122	0.0100	0.1000		112	80	120				
Selenium	0.1051	0.0500	0.1000		105	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327609

Sample ID: **LCS-327609**	Client ID:			Units: **mg/L**	Prep Date: **12/18/2021**	Run No: **473407**
SampleType: **LCS**	TestCode: **APPENDIX I METALS**	**SW6020B**		BatchID: **327609**	Analysis Date: **12/21/2021**	Seq No: **10908094**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Silver	0.01097	0.00500	0.0100		110	80	120				
Thallium	0.1109	0.00200	0.1000		111	80	120				

Sample ID: **LCS-327609**	Client ID:			Units: **mg/L**	Prep Date: **12/18/2021**	Run No: **473407**
SampleType: **LCS**	TestCode: **APPENDIX I METALS**	**SW6020B**		BatchID: **327609**	Analysis Date: **12/22/2021**	Seq No: **10908773**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cobalt	0.09227	0.0500	0.1000		92.3	80	120				
Copper	0.09336	0.0200	0.1000		93.4	80	120				
Nickel	0.09246	0.0400	0.1000		92.5	80	120				
Vanadium	0.08899	0.0500	0.1000		89.0	80	120				
Zinc	0.09285	0.0200	0.1000		92.9	80	120				

Sample ID: **2112I55-031BMS**	Client ID: **Field Blank 1**			Units: **mg/L**	Prep Date: **12/18/2021**	Run No: **473407**
SampleType: **MS**	TestCode: **APPENDIX I METALS**	**SW6020B**		BatchID: **327609**	Analysis Date: **12/21/2021**	Seq No: **10908102**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1118	0.00600	0.1000		112	75	125				
Arsenic	0.09762	0.0100	0.1000		97.6	75	125				
Barium	0.1112	0.0200	0.1000		111	75	125				
Beryllium	0.09762	0.00400	0.1000		97.6	75	125				
Cadmium	0.1027	0.00500	0.1000		103	75	125				
Chromium	0.1153	0.0200	0.1000		115	75	125				
Cobalt	0.1194	0.0500	0.1000		119	75	125				
Copper	0.1207	0.0200	0.1000		121	75	125				
Lead	0.1113	0.0100	0.1000		111	75	125				
Nickel	0.1216	0.0400	0.1000		122	75	125				
Selenium	0.1059	0.0500	0.1000		106	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327609

Sample ID: **2112I55-031BMS** Client ID: **Field Blank 1** Units: **mg/L** Prep Date: **12/18/2021** Run No: **473407**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327609** Analysis Date: **12/21/2021** Seq No: **10908102**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Silver	0.01111	0.00500	0.0100		111	75	125				
Thallium	0.1092	0.00200	0.1000		109	75	125				
Vanadium	0.1162	0.0500	0.1000		116	75	125				
Zinc	0.1155	0.0200	0.1000		116	75	125				

Sample ID: **2112I55-031BMSD** Client ID: **Field Blank 1** Units: **mg/L** Prep Date: **12/18/2021** Run No: **473407**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327609** Analysis Date: **12/21/2021** Seq No: **10908108**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1132	0.00600	0.1000		113	75	125	0.1118	1.20	20	
Arsenic	0.09758	0.0100	0.1000		97.6	75	125	0.09762	0.036	20	
Barium	0.1134	0.0200	0.1000		113	75	125	0.1112	2.01	20	
Beryllium	0.09617	0.00400	0.1000		96.2	75	125	0.09762	1.50	20	
Cadmium	0.1055	0.00500	0.1000		106	75	125	0.1027	2.76	20	
Chromium	0.1178	0.0200	0.1000		118	75	125	0.1153	2.13	20	
Cobalt	0.1202	0.0500	0.1000		120	75	125	0.1194	0.722	20	
Copper	0.1225	0.0200	0.1000		122	75	125	0.1207	1.45	20	
Lead	0.1128	0.0100	0.1000		113	75	125	0.1113	1.31	20	
Nickel	0.1226	0.0400	0.1000		123	75	125	0.1216	0.844	20	
Selenium	0.1074	0.0500	0.1000		107	75	125	0.1059	1.46	20	
Silver	0.01111	0.00500	0.0100		111	75	125	0.01111	0.037	20	
Thallium	0.1097	0.00200	0.1000		110	75	125	0.1092	0.390	20	
Vanadium	0.1191	0.0500	0.1000		119	75	125	0.1162	2.50	20	
Zinc	0.1170	0.0200	0.1000		117	75	125	0.1155	1.32	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327663

Sample ID: **MB-327663** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/18/2021** Seq No: **10897986**

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									

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327663

Sample ID: **MB-327663** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/18/2021** Seq No: **10897986**

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	51.83	0	50.00		104	74.9	127				
Surr: Dibromofluoromethane	53.64	0	50.00		107	78.9	121				
Surr: Toluene-d8	46.82	0	50.00		93.6	81.5	120				

Sample ID: **LCS-327663** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/18/2021** Seq No: **10897987**

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327663

Sample ID: **LCS-327663** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/18/2021** Seq No: **10897987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.27	5.0	50.00		103	67.3	134				
Benzene	49.54	5.0	50.00		99.1	78.6	124				
Chlorobenzene	50.75	5.0	50.00		102	78.9	127				
Toluene	51.12	5.0	50.00		102	77.7	125				
Trichloroethene	49.33	5.0	50.00		98.7	77	130				
Surr: 4-Bromofluorobenzene	49.63	0	50.00		99.3	74.9	127				
Surr: Dibromofluoromethane	49.87	0	50.00		99.7	78.9	121				
Surr: Toluene-d8	49.83	0	50.00		99.7	81.5	120				

Sample ID: **2112I55-016AMS** Client ID: **GWC-12A** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/19/2021** Seq No: **10901125**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	50.12	5.0	50.00		100	67.6	143				
Benzene	48.48	5.0	50.00		97.0	70.5	136				
Chlorobenzene	47.83	5.0	50.00		95.7	77.1	133				
Toluene	49.99	5.0	50.00		100.0	66.4	140				
Trichloroethene	47.88	5.0	50.00		95.8	75.1	140				
Surr: 4-Bromofluorobenzene	51.25	0	50.00		102	74.9	127				
Surr: Dibromofluoromethane	51.00	0	50.00		102	78.9	121				
Surr: Toluene-d8	50.53	0	50.00		101	81.5	120				

Sample ID: **2112I55-016AMSD** Client ID: **GWC-12A** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/19/2021** Seq No: **10901128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.69	5.0	50.00		91.4	67.6	143	50.12	9.25	19.6	
Benzene	45.90	5.0	50.00		91.8	70.5	136	48.48	5.47	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327663

Sample ID: **2112I55-016AMSD** Client ID: **GWC-12A** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473041**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327663** Analysis Date: **12/19/2021** Seq No: **10901128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.49	5.0	50.00		93.0	77.1	133	47.83	2.84	20	
Toluene	47.16	5.0	50.00		94.3	66.4	140	49.99	5.83	20	
Trichloroethene	45.54	5.0	50.00		91.1	75.1	140	47.88	5.01	20	
Surr: 4-Bromofluorobenzene	52.72	0	50.00		105	74.9	127	51.25	0	0	
Surr: Dibromofluoromethane	50.40	0	50.00		101	78.9	121	51.00	0	0	
Surr: Toluene-d8	50.18	0	50.00		100	81.5	120	50.53	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327664

Sample ID: **MB-327664** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/18/2021** Seq No: **10898031**

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									

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327664

Sample ID: **MB-327664** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/18/2021** Seq No: **10898031**

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	51.76	0	50.00		104	74.9	127				
Surr: Dibromofluoromethane	56.56	0	50.00		113	78.9	121				
Surr: Toluene-d8	48.94	0	50.00		97.9	81.5	120				

Sample ID: **LCS-327664** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/18/2021** Seq No: **10898032**

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327664

Sample ID: **LCS-327664** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/18/2021** Seq No: **10898032**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.29	5.0	50.00		109	67.3	134				
Benzene	50.43	5.0	50.00		101	78.6	124				
Chlorobenzene	48.57	5.0	50.00		97.1	78.9	127				
Toluene	48.99	5.0	50.00		98.0	77.7	125				
Trichloroethene	48.56	5.0	50.00		97.1	77	130				
Surr: 4-Bromofluorobenzene	51.78	0	50.00		104	74.9	127				
Surr: Dibromofluoromethane	57.33	0	50.00		115	78.9	121				
Surr: Toluene-d8	50.60	0	50.00		101	81.5	120				

Sample ID: **2112I55-031AMS** Client ID: **Field Blank 1** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/19/2021** Seq No: **10901099**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.87	5.0	50.00		104	67.6	143				
Benzene	48.74	5.0	50.00		97.5	70.5	136				
Chlorobenzene	48.24	5.0	50.00		96.5	77.1	133				
Toluene	50.40	5.0	50.00		101	66.4	140				
Trichloroethene	48.12	5.0	50.00		96.2	75.1	140				
Surr: 4-Bromofluorobenzene	53.03	0	50.00		106	74.9	127				
Surr: Dibromofluoromethane	54.30	0	50.00		109	78.9	121				
Surr: Toluene-d8	51.40	0	50.00		103	81.5	120				

Sample ID: **2112I55-031AMSD** Client ID: **Field Blank 1** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/19/2021** Seq No: **10901100**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.27	5.0	50.00		90.5	67.6	143	51.87	13.6	19.6	
Benzene	44.39	5.0	50.00		88.8	70.5	136	48.74	9.34	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: 327664

Sample ID: **2112I55-031AMSD** Client ID: **Field Blank 1** Units: **ug/L** Prep Date: **12/18/2021** Run No: **473046**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327664** Analysis Date: **12/19/2021** Seq No: **10901100**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.18	5.0	50.00		92.4	77.1	133	48.24	4.36	20	
Toluene	46.77	5.0	50.00		93.5	66.4	140	50.40	7.47	20	
Trichloroethene	45.01	5.0	50.00		90.0	75.1	140	48.12	6.68	20	
Surr: 4-Bromofluorobenzene	52.25	0	50.00		104	74.9	127	53.03	0	0	
Surr: Dibromofluoromethane	49.02	0	50.00		98.0	78.9	121	54.30	0	0	
Surr: Toluene-d8	50.00	0	50.00		100	81.5	120	51.40	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472618

Sample ID: **MB-R472618** Client ID: Units: **mg/L** Prep Date: Run No: **472618**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R472618** Analysis Date: **12/14/2021** Seq No: **10886001**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R472618** Client ID: Units: **mg/L** Prep Date: Run No: **472618**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R472618** Analysis Date: **12/14/2021** Seq No: **10886000**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.951	1.0	10.00		99.5	90	110				
Nitrate	5.348	0.25	5.000		107	90	110				
Sulfate	25.62	1.0	25.00		102	90	110				

Sample ID: **2112H76-006FMS** Client ID: Units: **mg/L** Prep Date: Run No: **472618**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472618** Analysis Date: **12/14/2021** Seq No: **10886035**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.83	1.0	10.00	1.746	90.8	90	110				
Nitrate	4.944	0.25	5.000		98.9	90	110				
Sulfate	25.80	1.0	25.00	1.558	97.0	90	110				

Sample ID: **2112I55-001BMS** Client ID: **PH1-GWA-1** Units: **mg/L** Prep Date: Run No: **472618**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472618** Analysis Date: **12/15/2021** Seq No: **10886037**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.29	1.0	10.00	2.141	91.5	90	110				
Nitrate	4.939	0.25	5.000		98.8	90	110				
Sulfate	26.05	1.0	25.00	1.468	98.3	90	110				

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472618

Sample ID: **2112H76-006FMSD** Client ID: Units: **mg/L** Prep Date: Run No: **472618**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R472618** Analysis Date: **12/14/2021** Seq No: **10886036**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.81	1.0	10.00	1.746	90.6	90	110	10.83	0.147	20	
Nitrate	5.004	0.25	5.000		100	90	110	4.944	1.22	20	
Sulfate	26.84	1.0	25.00	1.558	101	90	110	25.80	3.94	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472635

Sample ID: **MB-R472635** Client ID: Units: **mg/L** Prep Date: Run No: **472635**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R472635** Analysis Date: **12/15/2021** Seq No: **10898164**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	0.50									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R472635** Client ID: Units: **mg/L** Prep Date: Run No: **472635**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R472635** Analysis Date: **12/15/2021** Seq No: **10898163**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.000	1.0	10.00		100.0	90	110				
Nitrate	5.372	0.25	5.000		107	90	110				
Sulfate	25.54	1.0	25.00		102	90	110				

Sample ID: **2112I55-034BMS** Client ID: **PH1-GWA-2** Units: **mg/L** Prep Date: Run No: **472635**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472635** Analysis Date: **12/15/2021** Seq No: **10898184**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.40	1.0	10.00	3.565	88.4	90	110				S
Nitrate	4.943	0.25	5.000		98.9	90	110				
Sulfate	25.32	1.0	25.00	1.337	95.9	90	110				

Sample ID: **2112I55-054BMS** Client ID: **AMW-5** Units: **mg/L** Prep Date: Run No: **472635**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472635** Analysis Date: **12/15/2021** Seq No: **10898182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.18	1.0	10.00	3.352	88.3	90	110				S
Nitrate	4.874	0.25	5.000		97.5	90	110				
Sulfate	26.55	1.0	25.00	3.121	93.7	90	110				

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472635

Sample ID: **2112I55-054BMSD** Client ID: **AMW-5** Units: **mg/L** Prep Date: Run No: **472635**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R472635** Analysis Date: **12/15/2021** Seq No: **10898183**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.30	1.0	10.00	3.352	89.5	90	110	12.18	0.990	20	S
Nitrate	4.950	0.25	5.000		99.0	90	110	4.874	1.54	20	
Sulfate	27.44	1.0	25.00	3.121	97.3	90	110	26.55	3.31	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472769

Sample ID: **LCS-R472769**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **472769**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R472769**		Analysis Date: **12/16/2021**		Seq No: **10890077**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	130.8	3.00	125.0		105	90	110				

Sample ID: **2112E27-001CDUP**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **472769**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R472769**		Analysis Date: **12/16/2021**		Seq No: **10890081**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	52.41	3.00						47.63	9.56	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472795

Sample ID: **MB-R472795** Client ID: Units: **mg/L** Prep Date: Run No: **472795**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R472795** Analysis Date: **12/15/2021** Seq No: **10898214**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R472795** Client ID: Units: **mg/L** Prep Date: Run No: **472795**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R472795** Analysis Date: **12/15/2021** Seq No: **10898213**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.895	1.0	10.00		98.9	90	110				
Nitrate	5.342	0.25	5.000		107	90	110				
Sulfate	25.65	1.0	25.00		103	90	110				

Sample ID: **2112J14-027AMS** Client ID: Units: **mg/L** Prep Date: Run No: **472795**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472795** Analysis Date: **12/15/2021** Seq No: **10898229**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	18.73	1.0	10.00	10.17	85.5	90	110				S
Nitrate	5.036	0.25	5.000	0.4218	92.3	90	110				
Sulfate	29.61	1.0	25.00	5.238	97.5	90	110				

Sample ID: **2112J14-031AMS** Client ID: Units: **mg/L** Prep Date: Run No: **472795**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472795** Analysis Date: **12/15/2021** Seq No: **10898227**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.79	1.0	10.00	5.736	90.5	90	110				
Nitrate	5.229	0.25	5.000	0.2789	99.0	90	110				
Sulfate	25.79	1.0	25.00	1.745	96.2	90	110				

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472795

Sample ID: **2112J14-031AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **472795**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R472795** Analysis Date: **12/15/2021** Seq No: **10898228**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.72	1.0	10.00	5.736	89.9	90	110	14.79	0.448	20	S
Nitrate	5.180	0.25	5.000	0.2789	98.0	90	110	5.229	0.935	20	
Sulfate	25.65	1.0	25.00	1.745	95.6	90	110	25.79	0.543	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472827

Sample ID: **MB-R472827** Client ID: Units: **mg/L** Prep Date: Run No: **472827**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R472827** Analysis Date: **12/16/2021** Seq No: **10909501**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R472827** Client ID: Units: **mg/L** Prep Date: Run No: **472827**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R472827** Analysis Date: **12/16/2021** Seq No: **10909500**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.01	1.0	10.00		100	90	110				
Nitrate	5.383	0.25	5.000		108	90	110				
Sulfate	25.76	1.0	25.00		103	90	110				

Sample ID: **2112I95-007AMS** Client ID: Units: **mg/L** Prep Date: Run No: **472827**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472827** Analysis Date: **12/16/2021** Seq No: **10909529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	14.49	1.0	10.00	4.713	97.8	90	110				
Nitrate	7.476	0.25	5.000	2.276	104	90	110				
Sulfate	25.77	1.0	25.00	1.385	97.5	90	110				

Sample ID: **2112J53-005EMS** Client ID: Units: **mg/L** Prep Date: Run No: **472827**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R472827** Analysis Date: **12/16/2021** Seq No: **10909526**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.13	1.0	10.00	3.447	96.8	90	110				
Nitrate	5.036	0.25	5.000		101	90	110				
Sulfate	31.30	1.0	25.00	5.941	101	90	110				

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R472827

Sample ID: **2112J53-005EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **472827**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R472827** Analysis Date: **12/16/2021** Seq No: **10909527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.10	1.0	10.00	3.447	96.6	90	110	13.13	0.192	20	
Nitrate	5.160	0.25	5.000		103	90	110	5.036	2.43	20	
Sulfate	31.70	1.0	25.00	5.941	103	90	110	31.30	1.27	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R473051

Sample ID: **MB-R473051**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473051**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R473051**		Analysis Date: **12/15/2021**		Seq No: **10898281**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	BRL	1.0								
Nitrate	BRL	0.25								
Sulfate	BRL	1.0								

Sample ID: **LCS-R473051**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473051**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R473051**		Analysis Date: **12/15/2021**		Seq No: **10898280**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	10.04	1.0	10.00		100	90	110			
Nitrate	5.320	0.25	5.000		106	90	110			
Sulfate	25.99	1.0	25.00		104	90	110			

Sample ID: **2112I55-023BMS**	Client ID: **PH1-GWC-2**				Units: **mg/L**		Prep Date:		Run No: **473051**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R473051**		Analysis Date: **12/16/2021**		Seq No: **10898297**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	12.17	1.0	10.00	2.844	93.3	90	110			
Nitrate	5.070	0.25	5.000		101	90	110			
Sulfate	28.30	1.0	25.00	2.742	102	90	110			

Sample ID: **2112J14-035AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473051**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R473051**		Analysis Date: **12/16/2021**		Seq No: **10898295**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	11.01	1.0	10.00	1.885	91.3	90	110			
Nitrate	5.133	0.25	5.000	0.2220	98.2	90	110			
Sulfate	25.80	1.0	25.00	1.387	97.7	90	110			

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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R473051

Sample ID: **2112J14-035AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **473051**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R473051** Analysis Date: **12/16/2021** Seq No: **10898296**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.56	1.0	10.00	1.885	96.7	90	110	11.01	4.82	20	
Nitrate	5.401	0.25	5.000	0.2220	104	90	110	5.133	5.10	20	
Sulfate	27.97	1.0	25.00	1.387	106	90	110	25.80	8.06	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 MSWLF
Workorder: 2112I55

ANALYTICAL QC SUMMARY REPORT

BatchID: R473124

Sample ID: **LCS-R473124**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473124**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R473124**		Analysis Date: **12/20/2021**		Seq No: **10900369**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	126.5	3.00	125.0		101	90	110				

Sample ID: **2112H76-001EDUP**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473124**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R473124**		Analysis Date: **12/20/2021**		Seq No: **10900371**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	88.58	3.00						75.93	15.4	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		

End of Report

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

January 06, 2022

Charles Adams
Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County- Hightower Road MSWLF

Dear Charles Adams: Order No: 2112J26

Analytical Environmental Services, Inc. received 56 samples on 12/16/2021 2:00:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 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 11/01/23.
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,

Paris Masoudi

Paris Masoudi
Project Manager

Revision 1/6/2022

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: + 2112J26
Page 1 of 4

COMPANY:	ADDRESS:
Atlantic Coast Consulting, Inc.	1150 Northmeadow Pkwy Suite 100
PHONE: 770-594-5998	EMAIL: charles.adams@atlcc.net
SAMPLED BY: H. Auld, B. Ramjeawan, K. Holifield	SIGNATURE: H Auld

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	Appl VOC	App I Metals	NO3	SW Metals	COD	TOC	Chloride	Cyanide	SO4	TDS	Alk	Number of Containers
							PRESERVATION (see codes)											REMARKS
1	GWC-10	12-16-21	1010	✓		GW		✓										1
2	GWC-10A	12-16-21	1008	✓		GW		✓										1
3	GWC-13	12-16-21	0910	✓		GW		✓										1
4	GWC-14	12-16-21	0920	✓		GW		✓										1
5	SWA-1	12-16-21	1000	✓		SW				✓	✓	✓	✓	✓				6
6	SWA-2	↓	1200	✓		SW				✓	✓	✓	✓	✓				6
7	SWC-1		1230	✓		SW	✓			✓	✓	✓	✓	✓				8
8	SWC-2		1145	✓		SW				✓	✓	✓	✓	✓				6
9	SWC-3		1125	✓		SW				✓	✓	✓	✓	✓				6
10	SWC-4		1030	✓		SW	✓			✓	✓	✓	✓	✓				8
11	SWC-4A		1105	✓		SW	✓											2
12	GWA-1A	↓	1030	✓		GW	✓	✓										3
13	GWC-13	12-15-21	1025	✓		GW	✓											2
14	GWC-14	12-15-21	1105	✓		GW	✓											2

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RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Ben Ramjeawan	12/16/21 1400	1. Dayja Campbell	12/16/21 2:01pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(Client) FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth Co. - Hightower Rd. MSWLF
PROJECT #: 6020-113
SITE ADDRESS: Old Federal 9480 ~~Hightower~~ Rd. Ballground, GA 30107
SEND REPORT TO: Charles Adams, Betsy McDaniel betsy.mcdaniel@atlcc.net
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☒ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush*(auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

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Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

3.18.21_COC

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Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2112526
Page 2 of 4

COMPANY:	ADDRESS:
Atlantic Coast Consulting, Inc.	1150 Northmeadow Pkwy - Suite 100
PHONE: 770-594-5998	EMAIL: Charles.adams@atlcc.net
SAMPLED BY: H. Auld, B. Ramjeawan, K. Holtwick	SIGNATURE: H. Auld

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	App I VOCs	App I Metals	NO3	SW Metals	LOD	TDC	Chloride	Cyanide					REMARKS	Number of Containers
	ANALYSIS REQUESTED																			
	PRESERVATION (see codes)																			
1	PH1-GWC-4	12-15-21	1355	✓		GW	✓													2
2	PH1-GWC-4	12-16-21	1005	✓		GW		✓												1
3	GWC-1	12-16-21	0955	✓		GW		✓												1
4	PH1-GWC-7	12-16-21	1020	✓		GW		✓												1
5	GWC-2	12-15-21	1225	✓		GW	✓													2
6	GWC-2	12-16-21	0940	✓		GW		✓												1
7	GWC-18	12-15-21	0915	✓		GW		✓												1
8	GWC-19R	12-15-21	0925	✓		GW		✓												1
9	AMW-13	12-16-21	0910	✓		GW		✓												1
10	GWC-3	12-16-21	0945	✓		GW		✓												1
11	GWC-3A	12-16-21	0940	✓		GW		✓												1
12	GWC-4A	12-16-21	0835	✓		GW		✓												1
13	GWC-8	12-16-21	0900	✓		GW		✓												1
14	GWC-8A	12-16-21	0850	✓		GW		✓												1

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RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Ben Ramjeawan	12/16/21 1400	1. Damien Campbell	12/16/21 2:00pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth County - Hightower Rd. MSWLF
PROJECT #: GOZO-113
SITE ADDRESS: 9480 Old Federal Rd. Ballground, GA 30107
SEND REPORT TO: Charles Adams, Betsy McDaniel
betsy.mcdaniel@atlcc.net
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☒ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush*(auth req.)
*Surcharges apply for Rush TAT

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

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CHAIN OF CUSTODY

Work Order: 2112526
Page 3 of 4

COMPANY: Atlantic Coast Consulting, Inc.
ADDRESS: 1150 Northmeadow Pkwy. Suite 100
PHONE: 770-594-5998
EMAIL: Charles.adams@atlcc.net
SAMPLED BY: H. Auld
SIGNATURE: H Auld

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	App I VOC	App I Metals	NO_3	Sw Metals	COD	TOC	Cyanide	Chloride	SO_4	TDS	Alk	REMARKS	Number of Containers
							PRESERVATION (see codes)												
1	PH1-GWC-3	12-15-21	~~0900~~ 0905	✓		GW		✓											1
2	PH1-GWC-3A	12-15-21	~~0905~~ 0900	✓		GW		✓											1
3	GWC-1	12-15-21	1020	✓		GW	✓												2
4	GWC-3A	12-15-21	1055	✓		GW	✓												2
5	GWC-3	12-15-21	1105	✓		GW	✓												2
6	GWC-10A	12-15-21	1235	✓		GW	✓												2
7	GWC-10	12-15-21	1250	✓		GW	✓												2
8	PH1-GWC-1	12-15-21	1320	✓		GW	✓												2
9	SWC-5	12-15-21	1330	✓		SW				✓	✓	✓	✓	✓					6
10	SWC-6	12-15-21	1350	✓		SW	✓			✓	✓	✓	✓	✓					8
11	PH1-GWA-3A	12-15-21	1425	✓		GW	✓	✓											3
12	GWC-8R	12-15-21	1600	✓		GW	✓		✓					✓	✓	✓	✓		3
13	PH1-GWA-2	12-15-21	0840	✓		GW		✓											1
14	PH1-GWA-4	12-15-21	0900	✓		GW		✓											1

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ANALYSIS REQUESTED

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Ben Rogers	12/16/21 1400	1. Dapie Campbell	12/16/21 2:00 pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth County - Hightower Road
PROJECT #: 6020-113
SITE ADDRESS: Charles Adams, Betsy McDaniel
betsy.mcdaniel@atlcc.net
SEND REPORT TO: 9480 Old Federal Rd. Ballground, GA, 30107
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☒ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush* (auth req.)
*Surcharges apply for Rush TAT

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CHAIN OF CUSTODY

Work Order: 2112526
Page 4 of 4

COMPANY: Atlantic Coast Consulting, Inc.
ADDRESS: 1150 Northmeadow Pkwy. Suite 100
PHONE: 770.594.5998
EMAIL: charles.adams@atlcc.net
SAMPLED BY: H. Auld, B. Ramjeawan, K. Holifield
SIGNATURE: H. Auld

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	App I Metals	App I VOCs	NO_3	Sw metals	COD	TOC	Cyanide	Chloride	SO_4	TDS	Alk	REMARKS	Number of Containers
							PRESERVATION (see codes)												
1	~~PH1-GWC-3~~	~~12-15-21~~	~~0905~~	✓			✓											HA	1
2	~~PH1-GWC-3A~~	~~12-15-21~~	~~0900~~															HA	
3	GWA-3	12-15-21	0912	✓		GW	✓												1
4	GWC-4	12-15-21	0927	✓		GW	✓												1
5	GWC-4A	12-15-21	1320	✓		GW	HN	✓										HN	4 2
6	GWC-8	12-15-21	1355	✓		GW		✓											2
7	GWC-8A	12-15-21	1105	✓		GW		✓	✓										3
8	GWC-14A	12-15-21	0845	✓		GW	✓												1
9	GWC-17	12-15-21	0952	✓		GW	✓												1
10	~~GWC-24~~	~~12-15-21~~	~~0940~~	✓		~~GW~~	✓											HA	1
11	AMW-13	12-15-21	1425	✓		GW		✓											2
12	Field Blank-2	12-16-21	1115	✓		GW WW	✓	✓										Water HN	3
13	AMW-2	12-16-21	1140	✓		GW	✓	✓	✓						✓	✓	✓		4
14	Trip Blank	—	—	✓		W		✓											2

ANALYSIS REQUESTED

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RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Ben Ramjeawan	12/16/21 1400	1. Draper Campbell	12/16/21 2:00PM
2.		2.	
3.		3. HN	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
~~Client~~ FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth Co. - Hightower Rd. MSWLF
PROJECT #: G020-113
SITE ADDRESS: Charles Adams, Betsy McDaniel
betsy.mcdaniel@atlcc.net
SEND REPORT TO: 9480 Old Federal Rd, Ballground, GA 30107
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request in Business Days
☒ Standard ☐ 4-Day Rush*
☐ 3-Day Rush* ☐ 2-Day Rush*
☐ Next Day Rush* ☐ Other _____
☐ Same-Day Rush*(auth req.)
*Surcharges apply for Rush TAT

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White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 6-Jan-22

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County- Hightower Road MSWLF
Lab ID: 2112J26

Case Narrative

Sample Receiving Nonconformance:

Per Betsy McDaniel via email 12/16/2021 3:27pm, sample 2112J26-052B "AMW-2" was analyzed for Chloride in addition to the analysis requested on the Chain of Custody (COC) and sample 2112J26-047B "GWC-8A" was analyzed for TDS and Alkalinity in addition to the analysis requested on the COC.

The holding time for Nitrate analysis for sample 2112J26-047B was missed by the laboratory. Sample was re-collected and submitted under AES ID 2112P59.

Revision 1/06/22:

At the request of Betsy McDaniel via email on 1/06/22, missing Chloride result was added to 2112J26-052B "AMW-2."

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-10
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:10:00 AM
Lab ID:	2112J26-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 18:25	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 18:25	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 18:25	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 18:25	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 18:25	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 18:25	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 18:25	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 18:25	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 18:25	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 18:25	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 18:25	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 18:25	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 18:25	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 18:25	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 18:25	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-10A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:08:00 AM
Lab ID:	2112J26-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:01	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:01	EA
Barium	0.0335	0.0200		mg/L	327721	1	12/21/2021 19:01	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:01	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:01	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:01	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:01	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:01	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:01	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:01	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:01	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:01	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:01	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:01	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:01	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:10:00 AM
Lab ID:	2112J26-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:04	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:04	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:04	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:04	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:04	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:04	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:04	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:04	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:04	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:04	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:04	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:04	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:04	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:04	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:04	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:20:00 AM
Lab ID:	2112J26-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:08	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:08	EA
Barium	0.0473	0.0200		mg/L	327721	1	12/21/2021 19:08	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:08	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:08	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:08	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:08	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:08	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:08	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:08	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:08	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:08	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:08	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:08	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:08	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWA-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:00:00 AM
Lab ID:	2112J26-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.07	1.00		mg/L	R473210	1	12/20/2021 20:08	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 15:46	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:29	GR
Inorganic Anions by IC E300.0								
Chloride	2.14	0.500		mg/L	R473701	1	12/26/2021 21:27	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473115	1	12/19/2021 12:35	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:30	KB
Barium	0.0296	0.0200		mg/L	327602	1	12/21/2021 22:30	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:30	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:30	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:30	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:30	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:30	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:30	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:30	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWA-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 12:00:00 PM
Lab ID:	2112J26-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R473210	1	12/21/2021 02:03	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 15:49	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:33	GR
Inorganic Anions by IC E300.0								
Chloride	2.05	0.500		mg/L	R473701	1	12/26/2021 21:38	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473115	1	12/19/2021 12:35	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:33	KB
Barium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:33	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:33	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:33	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:33	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:33	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:33	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:33	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:33	KB

Qualifiers:

*	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.	**Client Sample ID:**	SWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 12:30:00 PM
Lab ID:	2112J26-007	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.18	1.00		mg/L	R473210	1	12/21/2021 02:22	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 15:52	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 20:38	GR
Inorganic Anions by IC E300.0								
Chloride	6.08	0.500		mg/L	R473701	1	12/26/2021 21:49	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473115	1	12/19/2021 12:35	SK
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/18/2021 23:11	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/18/2021 23:11	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
2-Butanone	BRL	100		ug/L	327699	1	12/18/2021 23:11	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/18/2021 23:11	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/18/2021 23:11	OM
Acetone	BRL	100		ug/L	327699	1	12/18/2021 23:11	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/18/2021 23:11	OM
Benzene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Bromoform	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Bromomethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/18/2021 23:11	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Chloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM

Qualifiers:

*	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.	**Client Sample ID:**	SWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 12:30:00 PM
Lab ID:	2112J26-007	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Iodomethane	BRL	100		ug/L	327699	1	12/18/2021 23:11	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/18/2021 23:11	OM
Styrene	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Toluene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/18/2021 23:11	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/18/2021 23:11	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/18/2021 23:11	OM
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/18/2021 23:11	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/18/2021 23:11	OM
Surr: 4-Bromofluorobenzene	89.3	74.9-127		%REC	327699	1	12/18/2021 23:11	OM
Surr: Dibromofluoromethane	99.7	78.9-121		%REC	327699	1	12/18/2021 23:11	OM
Surr: Toluene-d8	94.1	81.5-120		%REC	327699	1	12/18/2021 23:11	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:37	KB
Barium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:37	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:37	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:37	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:37	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:37	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:37	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:37	KB
Zinc	0.0394	0.0200		mg/L	327602	1	12/21/2021 22:37	KB

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:45:00 AM
Lab ID:	2112J26-008	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R473210	1	12/21/2021 02:40	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	326598	1	12/22/2021 18:11	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 20:50	GR
Inorganic Anions by IC E300.0								
Chloride	1.93	0.500		mg/L	R473701	1	12/26/2021 22:32	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473115	1	12/19/2021 12:35	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:40	KB
Barium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:40	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:40	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:40	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:40	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:40	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:40	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:40	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:40	KB

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:25:00 AM
Lab ID:	2112J26-009	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R473210	1	12/21/2021 02:58	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 15:55	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:37	GR
Inorganic Anions by IC E300.0								
Chloride	2.35	0.500		mg/L	R473701	1	12/26/2021 22:43	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473332	1	12/21/2021 16:50	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:08	KB
Barium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:08	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:08	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:08	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:08	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:08	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:08	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:08	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:08	KB

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:30:00 AM
Lab ID:	2112J26-010	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	BRL	1.00		mg/L	R473346	1	12/21/2021 10:45	GK
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 15:58	CB
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:41	GR
Inorganic Anions by IC E300.0								
Chloride	2.61	0.500		mg/L	R473701	1	12/26/2021 22:54	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473115	1	12/19/2021 12:35	SK
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/18/2021 23:35	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/18/2021 23:35	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
2-Butanone	BRL	100		ug/L	327699	1	12/18/2021 23:35	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/18/2021 23:35	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/18/2021 23:35	OM
Acetone	BRL	100		ug/L	327699	1	12/18/2021 23:35	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/18/2021 23:35	OM
Benzene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Bromoform	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Bromomethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/18/2021 23:35	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Chloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:30:00 AM
Lab ID:	2112J26-010	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Iodomethane	BRL	100		ug/L	327699	1	12/18/2021 23:35	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/18/2021 23:35	OM
Styrene	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Toluene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/18/2021 23:35	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/18/2021 23:35	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/18/2021 23:35	OM
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/18/2021 23:35	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/18/2021 23:35	OM
Surr: 4-Bromofluorobenzene	90.4	74.9-127		%REC	327699	1	12/18/2021 23:35	OM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327699	1	12/18/2021 23:35	OM
Surr: Toluene-d8	94.4	81.5-120		%REC	327699	1	12/18/2021 23:35	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:43	KB
Barium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:43	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:43	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:43	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:43	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:43	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:43	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:43	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:43	KB

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:05:00 AM
Lab ID:	2112J26-011	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/19/2021 00:00	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/19/2021 00:00	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
2-Butanone	BRL	100		ug/L	327699	1	12/19/2021 00:00	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/19/2021 00:00	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/19/2021 00:00	OM
Acetone	BRL	100		ug/L	327699	1	12/19/2021 00:00	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/19/2021 00:00	OM
Benzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Bromoform	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Bromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/19/2021 00:00	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Chloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Iodomethane	BRL	100		ug/L	327699	1	12/19/2021 00:00	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/19/2021 00:00	OM
Styrene	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Toluene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/19/2021 00:00	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/19/2021 00:00	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/19/2021 00:00	OM

Qualifiers:

*	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.	**Client Sample ID:**	SWC-4A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:05:00 AM
Lab ID:	2112J26-011	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:00	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/19/2021 00:00	OM
Surr: 4-Bromofluorobenzene	88.9	74.9-127		%REC	327699	1	12/19/2021 00:00	OM
Surr: Dibromofluoromethane	97.3	78.9-121		%REC	327699	1	12/19/2021 00:00	OM
Surr: Toluene-d8	93.6	81.5-120		%REC	327699	1	12/19/2021 00:00	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-1A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:30:00 AM
Lab ID:	2112J26-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/19/2021 00:24	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/19/2021 00:24	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
2-Butanone	BRL	100		ug/L	327699	1	12/19/2021 00:24	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/19/2021 00:24	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/19/2021 00:24	OM
Acetone	BRL	100		ug/L	327699	1	12/19/2021 00:24	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/19/2021 00:24	OM
Benzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Bromoform	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Bromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/19/2021 00:24	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Chloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Iodomethane	BRL	100		ug/L	327699	1	12/19/2021 00:24	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/19/2021 00:24	OM
Styrene	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Toluene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/19/2021 00:24	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/19/2021 00:24	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/19/2021 00:24	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWA-1A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:30:00 AM
Lab ID:	2112J26-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:24	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/19/2021 00:24	OM
Surr: 4-Bromofluorobenzene	88.2	74.9-127		%REC	327699	1	12/19/2021 00:24	OM
Surr: Dibromofluoromethane	99.2	78.9-121		%REC	327699	1	12/19/2021 00:24	OM
Surr: Toluene-d8	96.2	81.5-120		%REC	327699	1	12/19/2021 00:24	OM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:11	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:11	EA
Barium	0.0323	0.0200		mg/L	327721	1	12/21/2021 19:11	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:11	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:11	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:11	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:11	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:11	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:11	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:11	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:11	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:11	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:11	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:11	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:11	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:25:00 AM
Lab ID:	2112J26-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/19/2021 00:49	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/19/2021 00:49	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
2-Butanone	BRL	100		ug/L	327699	1	12/19/2021 00:49	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/19/2021 00:49	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/19/2021 00:49	OM
Acetone	BRL	100		ug/L	327699	1	12/19/2021 00:49	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/19/2021 00:49	OM
Benzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Bromoform	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Bromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/19/2021 00:49	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Chloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Iodomethane	BRL	100		ug/L	327699	1	12/19/2021 00:49	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/19/2021 00:49	OM
Styrene	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Toluene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/19/2021 00:49	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/19/2021 00:49	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/19/2021 00:49	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:25:00 AM
Lab ID:	2112J26-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/19/2021 00:49	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/19/2021 00:49	OM
Surr: 4-Bromofluorobenzene	88.5	74.9-127		%REC	327699	1	12/19/2021 00:49	OM
Surr: Dibromofluoromethane	99.9	78.9-121		%REC	327699	1	12/19/2021 00:49	OM
Surr: Toluene-d8	95.6	81.5-120		%REC	327699	1	12/19/2021 00:49	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327699	1	12/19/2021 01:13	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327699	1	12/19/2021 01:13	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
2-Butanone	BRL	100		ug/L	327699	1	12/19/2021 01:13	OM
2-Hexanone	BRL	50		ug/L	327699	1	12/19/2021 01:13	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327699	1	12/19/2021 01:13	OM
Acetone	BRL	100		ug/L	327699	1	12/19/2021 01:13	OM
Acrylonitrile	BRL	50		ug/L	327699	1	12/19/2021 01:13	OM
Benzene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Bromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Bromodichloromethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Bromoform	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Bromomethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Carbon disulfide	BRL	5.0		ug/L	327699	1	12/19/2021 01:13	OM
Carbon tetrachloride	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Chlorobenzene	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Chloroethane	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Chloroform	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Chloromethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Dibromochloromethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Dibromomethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Ethylbenzene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Iodomethane	BRL	100		ug/L	327699	1	12/19/2021 01:13	OM
Methylene chloride	BRL	5.0		ug/L	327699	1	12/19/2021 01:13	OM
Styrene	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Tetrachloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Toluene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327699	1	12/19/2021 01:13	OM
Trichloroethene	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Trichlorofluoromethane	BRL	10		ug/L	327699	1	12/19/2021 01:13	OM
Vinyl acetate	BRL	100		ug/L	327699	1	12/19/2021 01:13	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-14
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327699	1	12/19/2021 01:13	OM
Xylenes, Total	BRL	5.0		ug/L	327699	1	12/19/2021 01:13	OM
Surr: 4-Bromofluorobenzene	90	74.9-127		%REC	327699	1	12/19/2021 01:13	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327699	1	12/19/2021 01:13	OM
Surr: Toluene-d8	97.1	81.5-120		%REC	327699	1	12/19/2021 01:13	OM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:55:00 PM
Lab ID:	2112J26-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 04:55	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 04:55	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 04:55	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 04:55	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 04:55	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 04:55	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 04:55	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 04:55	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 04:55	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 04:55	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 04:55	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 04:55	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 04:55	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.	**Client Sample ID:**	PH1-GWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:55:00 PM
Lab ID:	2112J26-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 04:55	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 04:55	OM
Surr: 4-Bromofluorobenzene	88.3	74.9-127		%REC	327701	1	12/19/2021 04:55	OM
Surr: Dibromofluoromethane	103	78.9-121		%REC	327701	1	12/19/2021 04:55	OM
Surr: Toluene-d8	95	81.5-120		%REC	327701	1	12/19/2021 04:55	OM

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:05:00 AM
Lab ID:	2112J26-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:15	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:15	EA
Barium	0.0413	0.0200		mg/L	327721	1	12/21/2021 19:15	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:15	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:15	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:15	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:15	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:15	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:15	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:15	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:15	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:15	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:15	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:15	EA
Zinc	0.0217	0.0200		mg/L	327721	1	12/21/2021 19:15	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:55:00 AM
Lab ID:	2112J26-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:18	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:18	EA
Barium	0.0840	0.0200		mg/L	327721	1	12/21/2021 19:18	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:18	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:18	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:18	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:18	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:18	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:18	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:18	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:18	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:18	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:18	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:18	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:18	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 10:20:00 AM
Lab ID:	2112J26-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:22	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:22	EA
Barium	0.0306	0.0200		mg/L	327721	1	12/21/2021 19:22	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:22	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:22	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:22	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:22	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:22	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:22	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:22	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:22	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:22	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:22	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:22	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:22	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:25:00 PM
Lab ID:	2112J26-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 05:20	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 05:20	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 05:20	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 05:20	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 05:20	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 05:20	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 05:20	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 05:20	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 05:20	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 05:20	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 05:20	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 05:20	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 05:20	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:25:00 PM
Lab ID:	2112J26-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 05:20	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 05:20	OM
Surr: 4-Bromofluorobenzene	90.7	74.9-127		%REC	327701	1	12/19/2021 05:20	OM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327701	1	12/19/2021 05:20	OM
Surr: Toluene-d8	93.1	81.5-120		%REC	327701	1	12/19/2021 05:20	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:40:00 AM
Lab ID:	2112J26-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:26	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:26	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:26	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:26	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:26	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:26	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:26	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:26	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:26	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:26	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:26	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:26	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:26	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:26	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:26	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-18
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:15:00 AM
Lab ID:	2112J26-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:29	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:29	EA
Barium	0.141	0.0200		mg/L	327721	1	12/21/2021 19:29	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:29	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:29	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:29	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:29	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:29	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:29	EA
Nickel	0.0337	0.0200		mg/L	327721	1	12/21/2021 19:29	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:29	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:29	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:29	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:29	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:29	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-19R
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:25:00 AM
Lab ID:	2112J26-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:51	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:51	EA
Barium	0.0870	0.0200		mg/L	327721	1	12/21/2021 19:51	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:51	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:51	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:51	EA
Cobalt	0.0404	0.0400		mg/L	327721	1	12/21/2021 19:51	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:51	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:51	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:51	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:51	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:51	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:51	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:51	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:51	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:10:00 AM
Lab ID:	2112J26-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:54	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:54	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:54	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:54	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:54	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:54	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:54	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:54	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:54	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:54	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:54	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:54	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:54	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:54	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:54	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:45:00 AM
Lab ID:	2112J26-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 19:58	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 19:58	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:58	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 19:58	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 19:58	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:58	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 19:58	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 19:58	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 19:58	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 19:58	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 19:58	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 19:58	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 19:58	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 19:58	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 19:58	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:40:00 AM
Lab ID:	2112J26-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:01	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:01	EA
Barium	0.0328	0.0200		mg/L	327721	1	12/21/2021 20:01	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:01	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:01	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:01	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:01	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:01	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:01	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:01	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:01	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:01	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:01	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:01	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:01	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 8:35:00 AM
Lab ID:	2112J26-026	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:05	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:05	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:05	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:05	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:05	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:05	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:05	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:05	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:05	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:05	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:05	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:05	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:05	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:05	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:05	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 9:00:00 AM
Lab ID:	2112J26-027	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:08	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:08	EA
Barium	0.0335	0.0200		mg/L	327721	1	12/21/2021 20:08	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:08	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:08	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:08	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:08	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:08	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:08	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:08	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:08	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:08	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:08	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:08	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:08	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 8:50:00 AM
Lab ID:	2112J26-028	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:12	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:12	EA
Barium	0.0497	0.0200		mg/L	327721	1	12/21/2021 20:12	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:12	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:12	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:12	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:12	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:12	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:12	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:12	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:12	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:12	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:12	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:12	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:12	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWC-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:05:00 AM
Lab ID:	2112J26-029	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:16	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:16	EA
Barium	0.0288	0.0200		mg/L	327721	1	12/21/2021 20:16	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:16	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:16	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:16	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:16	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:16	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:16	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:16	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:16	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:16	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:16	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:16	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:16	EA

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWC-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:00:00 AM
Lab ID:	2112J26-030	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:19	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:19	EA
Barium	0.0285	0.0200		mg/L	327721	1	12/21/2021 20:19	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:19	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:19	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:19	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:19	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:19	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:19	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:19	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:19	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:19	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:19	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:19	EA
Zinc	0.0436	0.0200		mg/L	327721	1	12/21/2021 20:19	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:20:00 AM
Lab ID:	2112J26-031	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 05:44	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 05:44	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 05:44	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 05:44	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 05:44	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 05:44	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 05:44	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 05:44	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 05:44	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 05:44	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 05:44	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 05:44	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 05:44	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:20:00 AM
Lab ID:	2112J26-031	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 05:44	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 05:44	OM
Surr: 4-Bromofluorobenzene	89	74.9-127		%REC	327701	1	12/19/2021 05:44	OM
Surr: Dibromofluoromethane	99.2	78.9-121		%REC	327701	1	12/19/2021 05:44	OM
Surr: Toluene-d8	95.3	81.5-120		%REC	327701	1	12/19/2021 05:44	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:55:00 AM
Lab ID:	2112J26-032	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 06:08	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 06:08	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 06:08	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 06:08	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 06:08	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 06:08	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 06:08	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 06:08	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 06:08	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 06:08	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 06:08	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 06:08	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 06:08	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 10:55:00 AM
Lab ID:	2112J26-032	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:08	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 06:08	OM
Surr: 4-Bromofluorobenzene	88.8	74.9-127		%REC	327701	1	12/19/2021 06:08	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327701	1	12/19/2021 06:08	OM
Surr: Toluene-d8	94.4	81.5-120		%REC	327701	1	12/19/2021 06:08	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-033	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 06:33	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 06:33	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 06:33	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 06:33	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 06:33	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 06:33	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 06:33	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 06:33	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 06:33	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 06:33	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 06:33	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 06:33	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 06:33	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-033	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:33	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 06:33	OM
Surr: 4-Bromofluorobenzene	89.2	74.9-127		%REC	327701	1	12/19/2021 06:33	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327701	1	12/19/2021 06:33	OM
Surr: Toluene-d8	95.3	81.5-120		%REC	327701	1	12/19/2021 06:33	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-10A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:35:00 PM
Lab ID:	2112J26-034	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 06:58	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 06:58	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 06:58	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 06:58	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 06:58	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 06:58	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 06:58	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 06:58	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 06:58	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 06:58	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 06:58	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 06:58	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 06:58	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.	**Client Sample ID:**	GWC-10A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:35:00 PM
Lab ID:	2112J26-034	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 06:58	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 06:58	OM
Surr: 4-Bromofluorobenzene	89.8	74.9-127		%REC	327701	1	12/19/2021 06:58	OM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327701	1	12/19/2021 06:58	OM
Surr: Toluene-d8	94.9	81.5-120		%REC	327701	1	12/19/2021 06:58	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-10
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:50:00 PM
Lab ID:	2112J26-035	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 07:21	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 07:21	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 07:21	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 07:21	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 07:21	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 07:21	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 07:21	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 07:21	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 07:21	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 07:21	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 07:21	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 07:21	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 07:21	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-10
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 12:50:00 PM
Lab ID:	2112J26-035	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 07:21	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 07:21	OM
Surr: 4-Bromofluorobenzene	90.8	74.9-127		%REC	327701	1	12/19/2021 07:21	OM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327701	1	12/19/2021 07:21	OM
Surr: Toluene-d8	95	81.5-120		%REC	327701	1	12/19/2021 07:21	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:20:00 PM
Lab ID:	2112J26-036	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 07:46	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 07:46	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 07:46	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 07:46	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 07:46	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 07:46	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 07:46	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 07:46	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 07:46	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 07:46	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 07:46	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 07:46	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 07:46	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWC-1
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:20:00 PM
Lab ID:	2112J26-036	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 07:46	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 07:46	OM
Surr: 4-Bromofluorobenzene	91.8	74.9-127		%REC	327701	1	12/19/2021 07:46	OM
Surr: Dibromofluoromethane	97.2	78.9-121		%REC	327701	1	12/19/2021 07:46	OM
Surr: Toluene-d8	94.6	81.5-120		%REC	327701	1	12/19/2021 07:46	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-5
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:30:00 PM
Lab ID:	2112J26-037	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	4.70	1.00		mg/L	R473346	1	12/21/2021 11:05	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 16:01	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:45	GR
Inorganic Anions by IC E300.0								
Chloride	20.3	0.500		mg/L	R473701	1	12/26/2021 23:05	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473332	1	12/21/2021 16:50	SK
METALS, TOTAL SW6010D					**(SW3010A)**			
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:46	KB
Barium	0.0480	0.0200		mg/L	327602	1	12/21/2021 22:46	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:46	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:46	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:46	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:46	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:46	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:46	KB
Zinc	0.0621	0.0200		mg/L	327602	1	12/21/2021 22:46	KB

Qualifiers:

*	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.	**Client Sample ID:**	SWC-6
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:50:00 PM
Lab ID:	2112J26-038	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) by SM5310B								
Organic Carbon, Total	1.71	1.00		mg/L	R473346	1	12/21/2021 11:23	GK
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	327782	1	12/21/2021 16:04	CB
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00050		mg/L	327859	1	12/21/2021 21:49	GR
Inorganic Anions by IC E300.0								
Chloride	16.3	0.500		mg/L	R473701	1	12/26/2021 23:15	KV
Chemical Oxygen Demand (COD) E410.4								
Chemical Oxygen Demand	BRL	10.0		mg/L	R473332	1	12/21/2021 16:50	SK
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 08:10	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 08:10	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 08:10	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 08:10	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 08:10	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 08:10	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 08:10	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 08:10	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
cis-1,2-Dichloroethene	5.3	2.0		ug/L	327701	1	12/19/2021 08:10	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	SWC-6
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:50:00 PM
Lab ID:	2112J26-038	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 08:10	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 08:10	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 08:10	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 08:10	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 08:10	OM
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:10	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 08:10	OM
Surr: 4-Bromofluorobenzene	90.7	74.9-127		%REC	327701	1	12/19/2021 08:10	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327701	1	12/19/2021 08:10	OM
Surr: Toluene-d8	93.1	81.5-120		%REC	327701	1	12/19/2021 08:10	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	327602	1	12/21/2021 22:49	KB
Barium	0.0295	0.0200		mg/L	327602	1	12/21/2021 22:49	KB
Cadmium	BRL	0.0050		mg/L	327602	1	12/21/2021 22:49	KB
Chromium	BRL	0.0100		mg/L	327602	1	12/21/2021 22:49	KB
Lead	BRL	0.0100		mg/L	327602	1	12/21/2021 22:49	KB
Nickel	BRL	0.0200		mg/L	327602	1	12/21/2021 22:49	KB
Selenium	BRL	0.0200		mg/L	327602	1	12/21/2021 22:49	KB
Silver	BRL	0.0100		mg/L	327602	1	12/21/2021 22:49	KB
Zinc	BRL	0.0200		mg/L	327602	1	12/21/2021 22:49	KB

Qualifiers:

*	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.	**Client Sample ID:**	PH1-GWA-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 2:25:00 PM
Lab ID:	2112J26-039	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 08:34	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 08:34	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 08:34	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 08:34	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 08:34	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 08:34	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 08:34	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 08:34	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 08:34	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 08:34	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 08:34	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 08:34	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 08:34	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-3A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 2:25:00 PM
Lab ID:	2112J26-039	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:34	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 08:34	OM
Surr: 4-Bromofluorobenzene	88.8	74.9-127		%REC	327701	1	12/19/2021 08:34	OM
Surr: Dibromofluoromethane	99.1	78.9-121		%REC	327701	1	12/19/2021 08:34	OM
Surr: Toluene-d8	92.4	81.5-120		%REC	327701	1	12/19/2021 08:34	OM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327721	1	12/21/2021 20:23	EA
Arsenic	BRL	0.0100		mg/L	327721	1	12/21/2021 20:23	EA
Barium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:23	EA
Beryllium	BRL	0.00300		mg/L	327721	1	12/21/2021 20:23	EA
Cadmium	BRL	0.00500		mg/L	327721	1	12/21/2021 20:23	EA
Chromium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:23	EA
Cobalt	BRL	0.0400		mg/L	327721	1	12/21/2021 20:23	EA
Copper	BRL	0.0200		mg/L	327721	1	12/21/2021 20:23	EA
Lead	BRL	0.0150		mg/L	327721	1	12/21/2021 20:23	EA
Nickel	BRL	0.0200		mg/L	327721	1	12/21/2021 20:23	EA
Selenium	BRL	0.0100		mg/L	327721	1	12/21/2021 20:23	EA
Silver	BRL	0.0100		mg/L	327721	1	12/21/2021 20:23	EA
Thallium	BRL	0.00200		mg/L	327721	1	12/21/2021 20:23	EA
Vanadium	BRL	0.0200		mg/L	327721	1	12/21/2021 20:23	EA
Zinc	BRL	0.0200		mg/L	327721	1	12/21/2021 20:23	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8R
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 4:00:00 PM
Lab ID:	2112J26-040	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	150	10		mg/L	327484	1	12/17/2021 10:45	NN
ION SCAN SW9056A								
Chloride	2.4	0.50		mg/L	R473468	1	12/16/2021 22:08	IP
Nitrate	BRL	0.25		mg/L	R473468	1	12/16/2021 22:08	IP
Sulfate	3.3	1.0		mg/L	R473468	1	12/16/2021 22:08	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,1-Dichloroethane	11	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 08:59	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 08:59	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 08:59	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 08:59	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 08:59	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 08:59	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 08:59	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 08:59	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
cis-1,2-Dichloroethene	24	2.0		ug/L	327701	1	12/19/2021 08:59	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 08:59	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 08:59	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 08:59	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.	**Client Sample ID:**	GWC-8R
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 4:00:00 PM
Lab ID:	2112J26-040	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 08:59	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 08:59	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 08:59	OM
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 08:59	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 08:59	OM
Surr: 4-Bromofluorobenzene	90.7	74.9-127		%REC	327701	1	12/19/2021 08:59	OM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327701	1	12/19/2021 08:59	OM
Surr: Toluene-d8	94.3	81.5-120		%REC	327701	1	12/19/2021 08:59	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	133	3.00		mg/L	R473451	1	12/22/2021 13:34	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 8:40:00 AM
Lab ID:	2112J26-041	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:12	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:12	EA
Barium	0.0716	0.0200		mg/L	327722	1	12/22/2021 11:12	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:12	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:12	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:12	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:12	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:12	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:12	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:12	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:12	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:12	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:12	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:12	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:12	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWA-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:00:00 AM
Lab ID:	2112J26-042	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:47	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:47	EA
Barium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:47	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:47	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:47	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:47	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:47	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:47	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:47	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:47	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:47	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:47	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:47	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:47	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:47	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWA-3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:12:00 AM
Lab ID:	2112J26-043	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:50	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:50	EA
Barium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:50	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:50	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:50	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:50	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:50	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:50	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:50	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:50	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:50	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:50	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:50	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:50	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:50	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:27:00 AM
Lab ID:	2112J26-044	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:52	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:52	EA
Barium	0.0210	0.0200		mg/L	327722	1	12/22/2021 11:52	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:52	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:52	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:52	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:52	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:52	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:52	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:52	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:52	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:52	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:52	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:52	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:52	EA

Qualifiers:

*	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.	**Client Sample ID:**	GWC-4A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:20:00 PM
Lab ID:	2112J26-045	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 09:24	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 09:24	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 09:24	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 09:24	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 09:24	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 09:24	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 09:24	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 09:24	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 09:24	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 09:24	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 09:24	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 09:24	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 09:24	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-4A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:20:00 PM
Lab ID:	2112J26-045	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 09:24	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 09:24	OM
Surr: 4-Bromofluorobenzene	88	74.9-127		%REC	327701	1	12/19/2021 09:24	OM
Surr: Dibromofluoromethane	103	78.9-121		%REC	327701	1	12/19/2021 09:24	OM
Surr: Toluene-d8	96.2	81.5-120		%REC	327701	1	12/19/2021 09:24	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-8
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:55:00 PM
Lab ID:	2112J26-046	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 09:48	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 09:48	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 09:48	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 09:48	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 09:48	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 09:48	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 09:48	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 09:48	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 09:48	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 09:48	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 09:48	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 09:48	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 09:48	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 1:55:00 PM
Lab ID:	2112J26-046	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 09:48	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 09:48	OM
Surr: 4-Bromofluorobenzene	90	74.9-127		%REC	327701	1	12/19/2021 09:48	OM
Surr: Dibromofluoromethane	99.6	78.9-121		%REC	327701	1	12/19/2021 09:48	OM
Surr: Toluene-d8	93.6	81.5-120		%REC	327701	1	12/19/2021 09:48	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-047	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	65	10		mg/L	327761	1	12/21/2021 14:45	NN
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,1-Dichloroethane	2.3	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 10:12	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 10:12	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 10:12	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 10:12	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 10:12	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 10:12	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 10:12	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 10:12	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
cis-1,2-Dichloroethene	24	2.0		ug/L	327701	1	12/19/2021 10:12	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 10:12	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 10:12	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 10:12	OM

Qualifiers:

*	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.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 11:05:00 AM
Lab ID:	2112J26-047	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 10:12	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 10:12	OM
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 10:12	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 10:12	OM
Surr: 4-Bromofluorobenzene	88.1	74.9-127		%REC	327701	1	12/19/2021 10:12	OM
Surr: Dibromofluoromethane	99.6	78.9-121		%REC	327701	1	12/19/2021 10:12	OM
Surr: Toluene-d8	93.7	81.5-120		%REC	327701	1	12/19/2021 10:12	OM
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	32.3	3.00		mg/L	R473451	1	12/22/2021 13:34	GY

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-14A
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 8:45:00 AM
Lab ID:	2112J26-048	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B					**(SW3005A)**			
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:55	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:55	EA
Barium	0.179	0.0200		mg/L	327722	1	12/22/2021 11:55	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:55	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:55	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:55	EA
Cobalt	0.192	0.0400		mg/L	327722	1	12/22/2021 11:55	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:55	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:55	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:55	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:55	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:55	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:55	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:55	EA
Zinc	0.0260	0.0200		mg/L	327722	1	12/22/2021 11:55	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-17
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 9:52:00 AM
Lab ID:	2112J26-049	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:57	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:57	EA
Barium	0.0392	0.0200		mg/L	327722	1	12/22/2021 11:57	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:57	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:57	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:57	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:57	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:57	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:57	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:57	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:57	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:57	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:57	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:57	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:57	EA

Qualifiers:

*	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.	**Client Sample ID:**	AMW-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 2:25:00 PM
Lab ID:	2112J26-050	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 10:37	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 10:37	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 10:37	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 10:37	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 10:37	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 10:37	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 10:37	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 10:37	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 10:37	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 10:37	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 10:37	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 10:37	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 10:37	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-13
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021 2:25:00 PM
Lab ID:	2112J26-050	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 10:37	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 10:37	OM
Surr: 4-Bromofluorobenzene	91.1	74.9-127		%REC	327701	1	12/19/2021 10:37	OM
Surr: Dibromofluoromethane	99.5	78.9-121		%REC	327701	1	12/19/2021 10:37	OM
Surr: Toluene-d8	95.8	81.5-120		%REC	327701	1	12/19/2021 10:37	OM

Qualifiers:

*	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.	**Client Sample ID:**	FIELD BLANK-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:15:00 AM
Lab ID:	2112J26-051	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 11:03	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 11:03	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 11:03	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 11:03	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 11:03	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 11:03	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 11:03	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 11:03	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 11:03	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 11:03	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 11:03	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 11:03	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 11:03	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	FIELD BLANK-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:15:00 AM
Lab ID:	2112J26-051	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:03	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 11:03	OM
Surr: 4-Bromofluorobenzene	89.6	74.9-127		%REC	327701	1	12/19/2021 11:03	OM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327701	1	12/19/2021 11:03	OM
Surr: Toluene-d8	94.2	81.5-120		%REC	327701	1	12/19/2021 11:03	OM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 11:59	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 11:59	EA
Barium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:59	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 11:59	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 11:59	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:59	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 11:59	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 11:59	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 11:59	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 11:59	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 11:59	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 11:59	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 11:59	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 11:59	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 11:59	EA

Qualifiers:

*	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.	**Client Sample ID:**	AMW-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:40:00 AM
Lab ID:	2112J26-052	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Residue, Dissolved (TDS) by SM2540C								
Residue, Dissolved (TDS)	87	10		mg/L	327484	1	12/17/2021 10:45	NN
ION SCAN SW9056A								
Chloride	2.0	0.50		mg/L	R473468	1	12/16/2021 22:19	IP
Nitrate	0.35	0.25		mg/L	R473468	1	12/16/2021 22:19	IP
Sulfate	7.1	1.0		mg/L	R473468	1	12/16/2021 22:19	IP
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 11:27	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 11:27	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 11:27	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 11:27	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 11:27	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 11:27	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 11:27	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 11:27	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 11:27	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 11:27	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 11:27	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/16/2021 11:40:00 AM
Lab ID:	2112J26-052	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 11:27	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 11:27	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 11:27	OM
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:27	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 11:27	OM
Surr: 4-Bromofluorobenzene	90.2	74.9-127		%REC	327701	1	12/19/2021 11:27	OM
Surr: Dibromofluoromethane	103	78.9-121		%REC	327701	1	12/19/2021 11:27	OM
Surr: Toluene-d8	93.8	81.5-120		%REC	327701	1	12/19/2021 11:27	OM
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327722	1	12/22/2021 12:02	EA
Arsenic	BRL	0.0100		mg/L	327722	1	12/22/2021 12:02	EA
Barium	0.0236	0.0200		mg/L	327722	1	12/22/2021 12:02	EA
Beryllium	BRL	0.00300		mg/L	327722	1	12/22/2021 12:02	EA
Cadmium	BRL	0.00500		mg/L	327722	1	12/22/2021 12:02	EA
Chromium	BRL	0.0100		mg/L	327722	1	12/22/2021 12:02	EA
Cobalt	BRL	0.0400		mg/L	327722	1	12/22/2021 12:02	EA
Copper	BRL	0.0200		mg/L	327722	1	12/22/2021 12:02	EA
Lead	BRL	0.0150		mg/L	327722	1	12/22/2021 12:02	EA
Nickel	BRL	0.0200		mg/L	327722	1	12/22/2021 12:02	EA
Selenium	BRL	0.0100		mg/L	327722	1	12/22/2021 12:02	EA
Silver	BRL	0.0100		mg/L	327722	1	12/22/2021 12:02	EA
Thallium	BRL	0.00200		mg/L	327722	1	12/22/2021 12:02	EA
Vanadium	BRL	0.0200		mg/L	327722	1	12/22/2021 12:02	EA
Zinc	BRL	0.0200		mg/L	327722	1	12/22/2021 12:02	EA
Alkalinity by SM2320B								
Alkalinity, Total (As CaCO3)	68.3	3.00		mg/L	R473451	1	12/22/2021 13:34	GY

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-053	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 11:51	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 11:51	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 11:51	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 11:51	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 11:51	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 11:51	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 11:51	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 11:51	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 11:51	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 11:51	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 11:51	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 11:51	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 11:51	OM

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-053	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 11:51	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 11:51	OM
Surr: 4-Bromofluorobenzene	87	74.9-127		%REC	327701	1	12/19/2021 11:51	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327701	1	12/19/2021 11:51	OM
Surr: Toluene-d8	94.6	81.5-120		%REC	327701	1	12/19/2021 11:51	OM

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK 2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-054	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 12:16	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 12:16	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 12:16	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 12:16	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 12:16	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 12:16	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 12:16	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 12:16	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 12:16	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 12:16	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 12:16	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 12:16	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 12:16	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.	**Client Sample ID:**	TRIP BLANK 2
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-054	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 12:16	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 12:16	OM
Surr: 4-Bromofluorobenzene	88.5	74.9-127		%REC	327701	1	12/19/2021 12:16	OM
Surr: Dibromofluoromethane	102	78.9-121		%REC	327701	1	12/19/2021 12:16	OM
Surr: Toluene-d8	95.8	81.5-120		%REC	327701	1	12/19/2021 12:16	OM

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK 3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-055	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327701	1	12/19/2021 12:40	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327701	1	12/19/2021 12:40	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
2-Butanone	BRL	100		ug/L	327701	1	12/19/2021 12:40	OM
2-Hexanone	BRL	50		ug/L	327701	1	12/19/2021 12:40	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327701	1	12/19/2021 12:40	OM
Acetone	BRL	100		ug/L	327701	1	12/19/2021 12:40	OM
Acrylonitrile	BRL	50		ug/L	327701	1	12/19/2021 12:40	OM
Benzene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Bromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Bromodichloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Bromoform	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Bromomethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Carbon disulfide	BRL	5.0		ug/L	327701	1	12/19/2021 12:40	OM
Carbon tetrachloride	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Chlorobenzene	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Chloroethane	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Chloroform	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Chloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Dibromochloromethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Dibromomethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Ethylbenzene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Iodomethane	BRL	100		ug/L	327701	1	12/19/2021 12:40	OM
Methylene chloride	BRL	5.0		ug/L	327701	1	12/19/2021 12:40	OM
Styrene	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Tetrachloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Toluene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327701	1	12/19/2021 12:40	OM
Trichloroethene	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Trichlorofluoromethane	BRL	10		ug/L	327701	1	12/19/2021 12:40	OM
Vinyl acetate	BRL	100		ug/L	327701	1	12/19/2021 12:40	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK 3
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-055	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327701	1	12/19/2021 12:40	OM
Xylenes, Total	BRL	5.0		ug/L	327701	1	12/19/2021 12:40	OM
Surr: 4-Bromofluorobenzene	88	74.9-127		%REC	327701	1	12/19/2021 12:40	OM
Surr: Dibromofluoromethane	100	78.9-121		%REC	327701	1	12/19/2021 12:40	OM
Surr: Toluene-d8	94.1	81.5-120		%REC	327701	1	12/19/2021 12:40	OM

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK 4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-056	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,1-Dichloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,1-Dichloroethene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,2,3-Trichloropropane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	327702	1	12/19/2021 13:04	OM
1,2-Dibromoethane	BRL	1.0		ug/L	327702	1	12/19/2021 13:04	OM
1,2-Dichlorobenzene	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
1,2-Dichloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,2-Dichloropropane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
1,4-Dichlorobenzene	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
2-Butanone	BRL	100		ug/L	327702	1	12/19/2021 13:04	OM
2-Hexanone	BRL	50		ug/L	327702	1	12/19/2021 13:04	OM
4-Methyl-2-pentanone	BRL	50		ug/L	327702	1	12/19/2021 13:04	OM
Acetone	BRL	100		ug/L	327702	1	12/19/2021 13:04	OM
Acrylonitrile	BRL	50		ug/L	327702	1	12/19/2021 13:04	OM
Benzene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Bromochloromethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Bromodichloromethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Bromoform	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Bromomethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Carbon disulfide	BRL	5.0		ug/L	327702	1	12/19/2021 13:04	OM
Carbon tetrachloride	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Chlorobenzene	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Chloroethane	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Chloroform	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Chloromethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Dibromochloromethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Dibromomethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Ethylbenzene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Iodomethane	BRL	100		ug/L	327702	1	12/19/2021 13:04	OM
Methylene chloride	BRL	5.0		ug/L	327702	1	12/19/2021 13:04	OM
Styrene	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Tetrachloroethene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Toluene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	327702	1	12/19/2021 13:04	OM
Trichloroethene	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Trichlorofluoromethane	BRL	10		ug/L	327702	1	12/19/2021 13:04	OM
Vinyl acetate	BRL	100		ug/L	327702	1	12/19/2021 13:04	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 6-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK 4
Project Name:	Forsyth County- Hightower Road MSWLF	**Collection Date:**	12/15/2021
Lab ID:	2112J26-056	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	327702	1	12/19/2021 13:04	OM
Xylenes, Total	BRL	5.0		ug/L	327702	1	12/19/2021 13:04	OM
Surr: 4-Bromofluorobenzene	87.2	74.9-127		%REC	327702	1	12/19/2021 13:04	OM
Surr: Dibromofluoromethane	101	78.9-121		%REC	327702	1	12/19/2021 13:04	OM
Surr: Toluene-d8	95	81.5-120		%REC	327702	1	12/19/2021 13:04	OM

Qualifiers:

*	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ATLANTIC COAST CONSULTING, INC.** AES Work Order Number: **2112J26**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

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

13. Cooler 1 Temperature 1.8 °C Cooler 2 Temperature 1 °C Cooler 3 Temperature 1.6 °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). CW 12/17/21

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

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). CW 12/17/21

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? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	◉	○		

* 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). CW 12/17/21

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road MSWLF
Lab Order: 2112J26

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112J26-001A	GWC-10	12/16/2021 10:10:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-002A	GWC-10A	12/16/2021 10:08:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-003A	GWC-13	12/16/2021 9:10:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-004A	GWC-14	12/16/2021 9:20:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-005A	SWA-1	12/16/2021 10:00:00AM	Surface Water	Total Organic Carbon by SM5310B			12/20/2021
2112J26-005B	SWA-1	12/16/2021 10:00:00AM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-005B	SWA-1	12/16/2021 10:00:00AM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-005C	SWA-1	12/16/2021 10:00:00AM	Surface Water	Chemical Oxygen Demand (COD)			12/19/2021
2112J26-005D	SWA-1	12/16/2021 10:00:00AM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-005E	SWA-1	12/16/2021 10:00:00AM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-006A	SWA-2	12/16/2021 12:00:00PM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-006B	SWA-2	12/16/2021 12:00:00PM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-006B	SWA-2	12/16/2021 12:00:00PM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-006C	SWA-2	12/16/2021 12:00:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/19/2021
2112J26-006D	SWA-2	12/16/2021 12:00:00PM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-006E	SWA-2	12/16/2021 12:00:00PM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-007A	SWC-1	12/16/2021 12:30:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/18/2021
2112J26-007B	SWC-1	12/16/2021 12:30:00PM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-007C	SWC-1	12/16/2021 12:30:00PM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-007C	SWC-1	12/16/2021 12:30:00PM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-007C	SWC-1	12/16/2021 12:30:00PM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-007D	SWC-1	12/16/2021 12:30:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/19/2021
2112J26-007E	SWC-1	12/16/2021 12:30:00PM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-007F	SWC-1	12/16/2021 12:30:00PM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-008A	SWC-2	12/16/2021 11:45:00AM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-008B	SWC-2	12/16/2021 11:45:00AM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-008B	SWC-2	12/16/2021 11:45:00AM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-008B	SWC-2	12/16/2021 11:45:00AM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-008C	SWC-2	12/16/2021 11:45:00AM	Surface Water	Chemical Oxygen Demand (COD)			12/19/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road MSWLF
Lab Order: 2112J26

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112J26-008D	SWC-2	12/16/2021 11:45:00AM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-008E	SWC-2	12/16/2021 11:45:00AM	Surface Water	Total Cyanide		12/22/2021 10:40:00AM	12/22/2021
2112J26-009A	SWC-3	12/16/2021 11:25:00AM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-009B	SWC-3	12/16/2021 11:25:00AM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-009B	SWC-3	12/16/2021 11:25:00AM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-009C	SWC-3	12/16/2021 11:25:00AM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2021
2112J26-009D	SWC-3	12/16/2021 11:25:00AM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-009E	SWC-3	12/16/2021 11:25:00AM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-010A	SWC-4	12/16/2021 10:30:00AM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/18/2021
2112J26-010B	SWC-4	12/16/2021 10:30:00AM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-010C	SWC-4	12/16/2021 10:30:00AM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-010C	SWC-4	12/16/2021 10:30:00AM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-010D	SWC-4	12/16/2021 10:30:00AM	Surface Water	Chemical Oxygen Demand (COD)			12/19/2021
2112J26-010E	SWC-4	12/16/2021 10:30:00AM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-010F	SWC-4	12/16/2021 10:30:00AM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-011A	SWC-4A	12/16/2021 11:05:00AM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/19/2021
2112J26-012A	GWA-1A	12/16/2021 10:30:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/19/2021
2112J26-012B	GWA-1A	12/16/2021 10:30:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-013A	GWC-13	12/15/2021 10:25:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/19/2021
2112J26-014A	GWC-14	12/15/2021 11:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/18/2021 1:14:00PM	12/19/2021
2112J26-015A	PHI-GWC-4	12/15/2021 1:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-016A	PHI-GWC-4	12/16/2021 10:05:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-017A	GWC-1	12/16/2021 9:55:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-018A	PHI-GWC-1	12/16/2021 10:20:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-019A	GWC-2	12/15/2021 12:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-020A	GWC-2	12/16/2021 9:40:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-021A	GWC-18	12/15/2021 9:15:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-022A	GWC-19R	12/15/2021 9:25:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-023A	AMW-13	12/16/2021 9:10:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road MSWLF
Lab Order: 2112J26

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112J26-024A	GWC-3	12/16/2021 9:45:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-025A	GWC-3A	12/16/2021 9:40:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-026A	GWC-4A	12/16/2021 8:35:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-027A	GWC-8	12/16/2021 9:00:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-028A	GWC-8A	12/16/2021 8:50:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-029A	PHI-GWC-3	12/15/2021 9:05:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-030A	PHI-GWC-3A	12/15/2021 9:00:00AM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-031A	GWC-1	12/15/2021 10:20:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-032A	GWC-3A	12/15/2021 10:55:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-033A	GWC-3	12/15/2021 11:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-034A	GWC-10A	12/15/2021 12:35:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-035A	GWC-10	12/15/2021 12:50:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-036A	PHI-GWC-1	12/15/2021 1:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-037A	SWC-5	12/15/2021 1:30:00PM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-037B	SWC-5	12/15/2021 1:30:00PM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-037B	SWC-5	12/15/2021 1:30:00PM	Surface Water	TOTAL MERCURY		12/21/2021 4:45:00PM	12/21/2021
2112J26-037C	SWC-5	12/15/2021 1:30:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2021
2112J26-037D	SWC-5	12/15/2021 1:30:00PM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-037E	SWC-5	12/15/2021 1:30:00PM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-038A	SWC-6	12/15/2021 1:50:00PM	Surface Water	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-038B	SWC-6	12/15/2021 1:50:00PM	Surface Water	Total Organic Carbon by SM5310B			12/21/2021
2112J26-038C	SWC-6	12/15/2021 1:50:00PM	Surface Water	TOTAL METALS BY ICP		12/20/2021 10:07:00AM	12/21/2021
2112J26-038C	SWC-6	12/15/2021 1:50:00PM	Surface Water	TOTAL MERCURY		12/21/2021 2:55:57PM	12/21/2021
2112J26-038D	SWC-6	12/15/2021 1:50:00PM	Surface Water	Chemical Oxygen Demand (COD)			12/21/2021
2112J26-038E	SWC-6	12/15/2021 1:50:00PM	Surface Water	Inorganic Anions by IC			12/26/2021
2112J26-038F	SWC-6	12/15/2021 1:50:00PM	Surface Water	Total Cyanide		12/21/2021 11:30:00AM	12/21/2021
2112J26-039A	PHI-GWA-3A	12/15/2021 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-039B	PHI-GWA-3A	12/15/2021 2:25:00PM	Groundwater	APPENDIX I METALS		12/21/2021 8:23:00AM	12/21/2021
2112J26-040A	GWC-8R	12/15/2021 4:00:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road MSWLF
Lab Order: 2112J26

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112J26-040B	GWC-8R	12/15/2021 4:00:00PM	Groundwater	ION SCAN			12/16/2021
2112J26-040B	GWC-8R	12/15/2021 4:00:00PM	Groundwater	Alkalinity by SM2320B			12/22/2021
2112J26-040B	GWC-8R	12/15/2021 4:00:00PM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2021 10:45:00AM	12/17/2021
2112J26-041A	PHI-GWA-2	12/15/2021 8:40:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-042A	PHI-GWA-4	12/15/2021 9:00:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-043A	GWA-3	12/15/2021 9:12:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-044A	GWC-4	12/15/2021 9:27:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-045A	GWC-4A	12/15/2021 1:20:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-046A	GWC-8	12/15/2021 1:55:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-047A	GWC-8A	12/15/2021 11:05:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-047B	GWC-8A	12/15/2021 11:05:00AM	Groundwater	ION SCAN			12/18/2021
2112J26-047B	GWC-8A	12/15/2021 11:05:00AM	Groundwater	Alkalinity by SM2320B			12/22/2021
2112J26-047B	GWC-8A	12/15/2021 11:05:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/21/2021 2:45:00PM	12/21/2021
2112J26-048A	GWC-14A	12/15/2021 8:45:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-049A	GWC-17	12/15/2021 9:52:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-050A	AMW-13	12/15/2021 2:25:00PM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-051A	FIELD BLANK-2	12/16/2021 11:15:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-051B	FIELD BLANK-2	12/16/2021 11:15:00AM	Aqueous	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-052A	AMW-2	12/16/2021 11:40:00AM	Groundwater	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-052B	AMW-2	12/16/2021 11:40:00AM	Groundwater	ION SCAN			12/16/2021
2112J26-052B	AMW-2	12/16/2021 11:40:00AM	Groundwater	Alkalinity by SM2320B			12/22/2021
2112J26-052B	AMW-2	12/16/2021 11:40:00AM	Groundwater	Residue, Dissolved (TDS) by SM2540C		12/17/2021 10:45:00AM	12/17/2021
2112J26-052C	AMW-2	12/16/2021 11:40:00AM	Groundwater	APPENDIX I METALS		12/20/2021 1:55:00PM	12/22/2021
2112J26-053A	TRIP BLANK	12/15/2021 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-054A	TRIP BLANK 2	12/15/2021 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-055A	TRIP BLANK 3	12/15/2021 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021
2112J26-056A	TRIP BLANK 4	12/15/2021 12:00:00AM	Aqueous	APPENDIX I VOLATILE ORGANICS		12/19/2021 2:28:00AM	12/19/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County- Hightower Road MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 326598

Sample ID: **MB-326598**	Client ID:				Units: **mg/L**		Prep Date: **12/22/2021**		Run No: **473914**	
SampleType: **MBLK**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **326598**		Analysis Date: **12/22/2021**		Seq No: **10922652**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-326598**	Client ID:				Units: **mg/L**		Prep Date: **12/22/2021**		Run No: **473914**	
SampleType: **LCS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **326598**		Analysis Date: **12/22/2021**		Seq No: **10922665**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1140	0.010	0.1000		114	85	115				

Sample ID: **2112J20-002BMS**	Client ID:				Units: **mg/L**		Prep Date: **12/22/2021**		Run No: **473914**	
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **326598**		Analysis Date: **12/22/2021**		Seq No: **10922668**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1130	0.010	0.1000		113	90	110				S

Sample ID: **2112L07-049GMS**	Client ID:				Units: **mg/L**		Prep Date: **12/22/2021**		Run No: **473914**	
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **326598**		Analysis Date: **12/22/2021**		Seq No: **10922654**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1050	0.010	0.1000		105	90	110				

Sample ID: **2112L07-049GMSD**	Client ID:				Units: **mg/L**		Prep Date: **12/22/2021**		Run No: **473914**	
SampleType: **MSD**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **326598**		Analysis Date: **12/22/2021**		Seq No: **10922655**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1150	0.010	0.1000		115	90	110	0.1050	9.09	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327484

Sample ID: **MB-327484**	Client ID:				Units: **mg/L**		Prep Date: **12/17/2021**		Run No: **472775**
SampleType: **MBLK**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327484**		Analysis Date: **12/17/2021**		Seq No: **10900199**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	BRL	10									

Sample ID: **LCS-327484**	Client ID:				Units: **mg/L**		Prep Date: **12/17/2021**		Run No: **472775**
SampleType: **LCS**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327484**		Analysis Date: **12/17/2021**		Seq No: **10900200**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	2964	40	3000		98.8	80	120				

Sample ID: **2112J47-001FDUP**	Client ID:				Units: **mg/L**		Prep Date: **12/17/2021**		Run No: **472775**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327484**		Analysis Date: **12/17/2021**		Seq No: **10900205**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	67.00	10						74.00	9.93	10	

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327602

Sample ID: **MB-327602**	Client ID:			Units: **mg/L**	Prep Date: **12/20/2021**	Run No: **473341**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **327602**	Analysis Date: **12/21/2021**	Seq No: **10907047**

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: **LCS-327602**	Client ID:			Units: **mg/L**	Prep Date: **12/20/2021**	Run No: **473341**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **327602**	Analysis Date: **12/21/2021**	Seq No: **10907049**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9841	0.0500	1.000		98.4	80	120				
Barium	1.005	0.0200	1.000		100	80	120				
Cadmium	0.9751	0.0050	1.000		97.5	80	120				
Chromium	0.9997	0.0100	1.000		100.0	80	120				
Lead	1.008	0.0100	1.000		101	80	120				
Nickel	1.012	0.0200	1.000		101	80	120				
Selenium	0.9424	0.0200	1.000		94.2	80	120				
Silver	0.09612	0.0100	0.1000		96.1	80	120				
Zinc	0.9989	0.0200	1.000		99.9	80	120				

Sample ID: **2112J26-009BMS**	Client ID: **SWC-3**			Units: **mg/L**	Prep Date: **12/20/2021**	Run No: **473341**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **327602**	Analysis Date: **12/21/2021**	Seq No: **10907053**

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327602

Sample ID: **2112J26-009BMS** Client ID: **SWC-3** Units: **mg/L** Prep Date: **12/20/2021** Run No: **473341**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **327602** Analysis Date: **12/21/2021** Seq No: **10907053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9856	0.0500	1.000		98.6	75	125				
Barium	1.019	0.0200	1.000	0.01565	100	75	125				
Cadmium	0.9792	0.0050	1.000		97.9	75	125				
Chromium	0.9975	0.0100	1.000		99.7	75	125				
Lead	1.006	0.0100	1.000	0.004980	100	75	125				
Nickel	1.002	0.0200	1.000		100	75	125				
Selenium	0.9569	0.0200	1.000	0.01113	94.6	75	125				
Silver	0.09612	0.0100	0.1000		96.1	75	125				
Zinc	1.022	0.0200	1.000		102	75	125				

Sample ID: **2112J26-009BMSD** Client ID: **SWC-3** Units: **mg/L** Prep Date: **12/20/2021** Run No: **473341**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **327602** Analysis Date: **12/21/2021** Seq No: **10907054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9784	0.0500	1.000		97.8	75	125	0.9856	0.731	20	
Barium	1.014	0.0200	1.000	0.01565	99.8	75	125	1.019	0.517	20	
Cadmium	0.9721	0.0050	1.000		97.2	75	125	0.9792	0.734	20	
Chromium	0.9924	0.0100	1.000		99.2	75	125	0.9975	0.512	20	
Lead	1.004	0.0100	1.000	0.004980	99.9	75	125	1.006	0.230	20	
Nickel	1.014	0.0200	1.000		101	75	125	1.002	1.15	20	
Selenium	0.9532	0.0200	1.000	0.01113	94.2	75	125	0.9569	0.392	20	
Silver	0.09554	0.0100	0.1000		95.5	75	125	0.09612	0.605	20	
Zinc	0.9945	0.0200	1.000		99.4	75	125	1.022	2.68	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327699

Sample ID: **MB-327699** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/18/2021** Seq No: **10898821**

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									

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327699

Sample ID: **MB-327699** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/18/2021** Seq No: **10898821**

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	44.71	0	50.00		89.4	74.9	127				
Surr: Dibromofluoromethane	49.39	0	50.00		98.8	78.9	121				
Surr: Toluene-d8	47.37	0	50.00		94.7	81.5	120				

Sample ID: **LCS-327699** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/18/2021** Seq No: **10898881**

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327699

Sample ID: **LCS-327699** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/18/2021** Seq No: **10898881**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.47	5.0	20.00		92.4	67.3	134				
Benzene	19.22	5.0	20.00		96.1	78.6	124				
Chlorobenzene	18.36	5.0	20.00		91.8	78.9	127				
Toluene	18.43	5.0	20.00		92.2	77.7	125				
Trichloroethene	19.10	5.0	20.00		95.5	77	130				
Surr: 4-Bromofluorobenzene	49.06	0	50.00		98.1	74.9	127				
Surr: Dibromofluoromethane	51.09	0	50.00		102	78.9	121				
Surr: Toluene-d8	48.41	0	50.00		96.8	81.5	120				

Sample ID: **2112M07-005AMS** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/20/2021** Seq No: **10902689**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.97	5.0	20.00		105	67.6	143				
Benzene	21.83	5.0	20.00		109	70.5	136				
Chlorobenzene	20.68	5.0	20.00		103	77.1	133				
Toluene	20.43	5.0	20.00		102	66.4	140				
Trichloroethene	21.67	5.0	20.00		108	75.1	140				
Surr: 4-Bromofluorobenzene	48.33	0	50.00		96.7	74.9	127				
Surr: Dibromofluoromethane	51.39	0	50.00		103	78.9	121				
Surr: Toluene-d8	47.82	0	50.00		95.6	81.5	120				

Sample ID: **2112M07-005AMSD** Client ID: Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327699** Analysis Date: **12/20/2021** Seq No: **10902690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.43	5.0	20.00		102	67.6	143	20.97	2.61	19.6	
Benzene	20.59	5.0	20.00		103	70.5	136	21.83	5.85	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327699

Sample ID: **2112M07-005AMSD** Client ID:
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**
Units: **ug/L** Prep Date: **12/18/2021** Run No: **473076**
BatchID: **327699** Analysis Date: **12/20/2021** Seq No: **10902690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	19.57	5.0	20.00		97.8	77.1	133	20.68	5.52	20	
Toluene	20.19	5.0	20.00		101	66.4	140	20.43	1.18	20	
Trichloroethene	20.63	5.0	20.00		103	75.1	140	21.67	4.92	20	
Surr: 4-Bromofluorobenzene	47.88	0	50.00		95.8	74.9	127	48.33	0	0	
Surr: Dibromofluoromethane	49.77	0	50.00		99.5	78.9	121	51.39	0	0	
Surr: Toluene-d8	48.37	0	50.00		96.7	81.5	120	47.82	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327701

Sample ID: **MB-327701** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/19/2021** Seq No: **10899035**

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									

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327701

Sample ID: **MB-327701** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/19/2021** Seq No: **10899035**

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	43.97	0	50.00		87.9	74.9	127				
Surr: Dibromofluoromethane	49.25	0	50.00		98.5	78.9	121				
Surr: Toluene-d8	47.07	0	50.00		94.1	81.5	120				

Sample ID: **LCS-327701** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/19/2021** Seq No: **10899034**

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327701

Sample ID: **LCS-327701** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/19/2021** Seq No: **10899034**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	15.16	5.0	20.00		75.8	67.3	134				
Benzene	18.47	5.0	20.00		92.4	78.6	124				
Chlorobenzene	19.45	5.0	20.00		97.2	78.9	127				
Toluene	19.21	5.0	20.00		96.0	77.7	125				
Trichloroethene	18.70	5.0	20.00		93.5	77	130				
Surr: 4-Bromofluorobenzene	49.47	0	50.00		98.9	74.9	127				
Surr: Dibromofluoromethane	49.94	0	50.00		99.9	78.9	121				
Surr: Toluene-d8	48.90	0	50.00		97.8	81.5	120				

Sample ID: **2112J26-031AMS** Client ID: **GWC-1** Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/20/2021** Seq No: **10902895**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.95	5.0	20.00		110	67.6	143				
Benzene	22.38	5.0	20.00		112	70.5	136				
Chlorobenzene	20.97	5.0	20.00		105	77.1	133				
Toluene	22.00	5.0	20.00		110	66.4	140				
Trichloroethene	21.90	5.0	20.00		110	75.1	140				
Surr: 4-Bromofluorobenzene	48.23	0	50.00		96.5	74.9	127				
Surr: Dibromofluoromethane	49.72	0	50.00		99.4	78.9	121				
Surr: Toluene-d8	47.91	0	50.00		95.8	81.5	120				

Sample ID: **2112J26-031AMSD** Client ID: **GWC-1** Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/20/2021** Seq No: **10902899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	22.28	5.0	20.00		111	67.6	143	21.95	1.49	19.6	
Benzene	22.16	5.0	20.00		111	70.5	136	22.38	0.988	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327701

Sample ID: **2112J26-031AMSD** Client ID: **GWC-1** Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327701** Analysis Date: **12/20/2021** Seq No: **10902899**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	21.09	5.0	20.00		105	77.1	133	20.97	0.571	20	
Toluene	21.28	5.0	20.00		106	66.4	140	22.00	3.33	20	
Trichloroethene	21.73	5.0	20.00		109	75.1	140	21.90	0.779	20	
Surr: 4-Bromofluorobenzene	48.06	0	50.00		96.1	74.9	127	48.23	0	0	
Surr: Dibromofluoromethane	49.50	0	50.00		99.0	78.9	121	49.72	0	0	
Surr: Toluene-d8	47.78	0	50.00		95.6	81.5	120	47.91	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327702

Sample ID: **MB-327702**	Client ID:		Units: **ug/L**	Prep Date: **12/19/2021**	Run No: **473082**
SampleType: **MBLK**	TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**		BatchID: **327702**	Analysis Date: **12/19/2021**	Seq No: **10899036**

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									

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327702

Sample ID: **MB-327702** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327702** Analysis Date: **12/19/2021** Seq No: **10899036**

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	45.34	0	50.00		90.7	74.9	127				
Surr: Dibromofluoromethane	51.23	0	50.00		102	78.9	121				
Surr: Toluene-d8	46.97	0	50.00		93.9	81.5	120				

Sample ID: **LCS-327702** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327702** Analysis Date: **12/19/2021** Seq No: **10899073**

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327702

Sample ID: **LCS-327702** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327702** Analysis Date: **12/19/2021** Seq No: **10899073**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	14.79	5.0	20.00		74.0	67.3	134				
Benzene	19.58	5.0	20.00		97.9	78.6	124				
Chlorobenzene	20.34	5.0	20.00		102	78.9	127				
Toluene	20.40	5.0	20.00		102	77.7	125				
Trichloroethene	18.99	5.0	20.00		95.0	77	130				
Surr: 4-Bromofluorobenzene	49.62	0	50.00		99.2	74.9	127				
Surr: Dibromofluoromethane	50.43	0	50.00		101	78.9	121				
Surr: Toluene-d8	49.75	0	50.00		99.5	81.5	120				

Sample ID: **2112L07-035AMS** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327702** Analysis Date: **12/20/2021** Seq No: **10902885**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.10	5.0	20.00		106	67.6	143				
Benzene	21.21	5.0	20.00		106	70.5	136				
Chlorobenzene	20.15	5.0	20.00		101	77.1	133				
Toluene	20.96	5.0	20.00		105	66.4	140				
Trichloroethene	23.30	5.0	20.00	2.220	105	75.1	140				
Surr: 4-Bromofluorobenzene	47.74	0	50.00		95.5	74.9	127				
Surr: Dibromofluoromethane	49.55	0	50.00		99.1	78.9	121				
Surr: Toluene-d8	47.27	0	50.00		94.5	81.5	120				

Sample ID: **2112L07-035AMSD** Client ID: Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **327702** Analysis Date: **12/20/2021** Seq No: **10902890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.78	5.0	20.00		98.9	67.6	143	21.10	6.46	19.6	
Benzene	19.68	5.0	20.00		98.4	70.5	136	21.21	7.48	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327702

Sample ID: **2112L07-035AMSD** Client ID:
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D**
Units: **ug/L** Prep Date: **12/19/2021** Run No: **473082**
BatchID: **327702** Analysis Date: **12/20/2021** Seq No: **10902890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	19.64	5.0	20.00		98.2	77.1	133	20.15	2.56	20	
Toluene	19.44	5.0	20.00		97.2	66.4	140	20.96	7.52	20	
Trichloroethene	22.87	5.0	20.00	2.220	103	75.1	140	23.30	1.86	20	
Surr: 4-Bromofluorobenzene	47.35	0	50.00		94.7	74.9	127	47.74	0	0	
Surr: Dibromofluoromethane	49.40	0	50.00		98.8	78.9	121	49.55	0	0	
Surr: Toluene-d8	47.31	0	50.00		94.6	81.5	120	47.27	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327721

Sample ID: **MB-327721** Client ID: Units: **mg/L** Prep Date: **12/21/2021** Run No: **473453**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327721** Analysis Date: **12/21/2021** Seq No: **10909234**

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: **LCS-327721** Client ID: Units: **mg/L** Prep Date: **12/21/2021** Run No: **473453**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327721** Analysis Date: **12/21/2021** Seq No: **10909236**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09882	0.00600	0.1000		98.8	80	120				
Arsenic	0.09798	0.0100	0.1000		98.0	80	120				
Barium	0.1002	0.0200	0.1000		100	80	120				
Beryllium	0.09966	0.00400	0.1000		99.7	80	120				
Cadmium	0.1005	0.00500	0.1000		101	80	120				
Chromium	0.1028	0.0200	0.1000		103	80	120				
Cobalt	0.1040	0.0500	0.1000		104	80	120				
Copper	0.1001	0.0200	0.1000		100	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327721

Sample ID: **LCS-327721** Client ID: Units: **mg/L** Prep Date: **12/21/2021** Run No: **473453**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327721** Analysis Date: **12/21/2021** Seq No: **10909236**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.1015	0.0100	0.1000		102	80	120				
Nickel	0.1014	0.0400	0.1000		101	80	120				
Selenium	0.09326	0.0500	0.1000		93.3	80	120				
Silver	0.01071	0.00500	0.0100		107	80	120				
Thallium	0.1045	0.00200	0.1000		104	80	120				
Vanadium	0.1029	0.0500	0.1000		103	80	120				
Zinc	0.09801	0.0200	0.1000		98.0	80	120				

Sample ID: **2112J26-001AMS** Client ID: **GWC-10** Units: **mg/L** Prep Date: **12/21/2021** Run No: **473453**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327721** Analysis Date: **12/21/2021** Seq No: **10909240**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1005	0.00600	0.1000		100	75	125				
Arsenic	0.09894	0.0100	0.1000		98.9	75	125				
Barium	0.1141	0.0200	0.1000	0.01554	98.6	75	125				
Beryllium	0.1022	0.00400	0.1000		102	75	125				
Cadmium	0.1016	0.00500	0.1000		102	75	125				
Chromium	0.1032	0.0200	0.1000		103	75	125				
Cobalt	0.1058	0.0500	0.1000		106	75	125				
Copper	0.1032	0.0200	0.1000		103	75	125				
Lead	0.1040	0.0100	0.1000		104	75	125				
Nickel	0.1032	0.0400	0.1000		103	75	125				
Selenium	0.09360	0.0500	0.1000		93.6	75	125				
Silver	0.01100	0.00500	0.0100		110	75	125				
Thallium	0.1073	0.00200	0.1000		107	75	125				
Vanadium	0.1015	0.0500	0.1000		101	75	125				
Zinc	0.1072	0.0200	0.1000		107	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327721

Sample ID: **2112J26-001AMSD** Client ID: **GWC-10** Units: **mg/L** Prep Date: **12/21/2021** Run No: **473453**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327721** Analysis Date: **12/21/2021** Seq No: **10909242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1000	0.00600	0.1000		100	75	125	0.1005	0.446	20	
Arsenic	0.09926	0.0100	0.1000		99.3	75	125	0.09894	0.322	20	
Barium	0.1120	0.0200	0.1000	0.01554	96.5	75	125	0.1141	1.89	20	
Beryllium	0.1003	0.00400	0.1000		100	75	125	0.1022	1.83	20	
Cadmium	0.09621	0.00500	0.1000		96.2	75	125	0.1016	5.47	20	
Chromium	0.1037	0.0200	0.1000		104	75	125	0.1032	0.492	20	
Cobalt	0.1061	0.0500	0.1000		106	75	125	0.1058	0.336	20	
Copper	0.1015	0.0200	0.1000		102	75	125	0.1032	1.67	20	
Lead	0.1042	0.0100	0.1000		104	75	125	0.1040	0.198	20	
Nickel	0.1041	0.0400	0.1000		104	75	125	0.1032	0.900	20	
Selenium	0.09366	0.0500	0.1000		93.7	75	125	0.09360	0.056	20	
Silver	0.01061	0.00500	0.0100		106	75	125	0.01100	3.57	20	
Thallium	0.1080	0.00200	0.1000		108	75	125	0.1073	0.691	20	
Vanadium	0.1020	0.0500	0.1000		102	75	125	0.1015	0.553	20	
Zinc	0.1087	0.0200	0.1000		109	75	125	0.1072	1.34	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327722

Sample ID: **MB-327722** Client ID: Units: **mg/L** Prep Date: **12/20/2021** Run No: **473433**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327722** Analysis Date: **12/22/2021** Seq No: **10908477**

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: **LCS-327722** Client ID: Units: **mg/L** Prep Date: **12/20/2021** Run No: **473433**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327722** Analysis Date: **12/22/2021** Seq No: **10908478**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1037	0.00600	0.1000		104	80	120				
Arsenic	0.09940	0.0100	0.1000		99.4	80	120				
Barium	0.1069	0.0200	0.1000		107	80	120				
Beryllium	0.09801	0.00400	0.1000		98.0	80	120				
Cadmium	0.1029	0.00500	0.1000		103	80	120				
Chromium	0.09689	0.0200	0.1000		96.9	80	120				
Cobalt	0.09906	0.0500	0.1000		99.1	80	120				
Copper	0.09808	0.0200	0.1000		98.1	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327722

Sample ID: **LCS-327722** Client ID: Units: **mg/L** Prep Date: **12/20/2021** Run No: **473433**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327722** Analysis Date: **12/22/2021** Seq No: **10908478**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	0.1115	0.0100	0.1000		111	80	120				
Nickel	0.09825	0.0400	0.1000		98.3	80	120				
Selenium	0.1003	0.0500	0.1000		100	80	120				
Silver	0.01102	0.00500	0.0100		110	80	120				
Thallium	0.1098	0.00200	0.1000		110	80	120				
Vanadium	0.09645	0.0500	0.1000		96.4	80	120				
Zinc	0.09924	0.0200	0.1000		99.2	80	120				

Sample ID: **2112J26-041AMS** Client ID: **PH1-GWA-2** Units: **mg/L** Prep Date: **12/20/2021** Run No: **473433**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327722** Analysis Date: **12/22/2021** Seq No: **10908482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1036	0.00600	0.1000		104	75	125				
Arsenic	0.1003	0.0100	0.1000	0.002979	97.3	75	125				
Barium	0.1787	0.0200	0.1000	0.07156	107	75	125				
Beryllium	0.09633	0.00400	0.1000		96.3	75	125				
Cadmium	0.1039	0.00500	0.1000		104	75	125				
Chromium	0.09630	0.0200	0.1000		96.3	75	125				
Cobalt	0.1134	0.0500	0.1000	0.01536	98.0	75	125				
Copper	0.1013	0.0200	0.1000		101	75	125				
Lead	0.1121	0.0100	0.1000		112	75	125				
Nickel	0.1008	0.0400	0.1000		101	75	125				
Selenium	0.1015	0.0500	0.1000		101	75	125				
Silver	0.01118	0.00500	0.0100		112	75	125				
Thallium	0.1092	0.00200	0.1000		109	75	125				
Vanadium	0.09728	0.0500	0.1000		97.3	75	125				
Zinc	0.1064	0.0200	0.1000		106	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327722

Sample ID: **2112J26-041AMSD** Client ID: **PH1-GWA-2** Units: **mg/L** Prep Date: **12/20/2021** Run No: **473433**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327722** Analysis Date: **12/22/2021** Seq No: **10908483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1011	0.00600	0.1000		101	75	125	0.1036	2.50	20	
Arsenic	0.09783	0.0100	0.1000	0.002979	94.8	75	125	0.1003	2.46	20	
Barium	0.1806	0.0200	0.1000	0.07156	109	75	125	0.1787	1.06	20	
Beryllium	0.09413	0.00400	0.1000		94.1	75	125	0.09633	2.31	20	
Cadmium	0.1012	0.00500	0.1000		101	75	125	0.1039	2.63	20	
Chromium	0.09488	0.0200	0.1000		94.9	75	125	0.09630	1.48	20	
Cobalt	0.1110	0.0500	0.1000	0.01536	95.6	75	125	0.1134	2.13	20	
Copper	0.09999	0.0200	0.1000		100.0	75	125	0.1013	1.33	20	
Lead	0.1108	0.0100	0.1000		111	75	125	0.1121	1.18	20	
Nickel	0.09890	0.0400	0.1000		98.9	75	125	0.1008	1.93	20	
Selenium	0.09930	0.0500	0.1000		99.3	75	125	0.1015	2.16	20	
Silver	0.01101	0.00500	0.0100		110	75	125	0.01118	1.53	20	
Thallium	0.1085	0.00200	0.1000		108	75	125	0.1092	0.636	20	
Vanadium	0.09540	0.0500	0.1000		95.4	75	125	0.09728	1.95	20	
Zinc	0.1009	0.0200	0.1000		101	75	125	0.1064	5.34	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327761

Sample ID: **MB-327761**	Client ID:				Units: **mg/L**		Prep Date: **12/21/2021**		Run No: **473157**
SampleType: **MBLK**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327761**		Analysis Date: **12/21/2021**		Seq No: **10908820**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	BRL	10									

Sample ID: **LCS-327761**	Client ID:				Units: **mg/L**		Prep Date: **12/21/2021**		Run No: **473157**
SampleType: **LCS**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327761**		Analysis Date: **12/21/2021**		Seq No: **10908823**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	2968	40	3000		98.9	80	120				

Sample ID: **2112J26-047BDUP**	Client ID: **GWC-8A**				Units: **mg/L**		Prep Date: **12/21/2021**		Run No: **473157**
SampleType: **DUP**	TestCode: **Residue, Dissolved (TDS) by SM2540C**				BatchID: **327761**		Analysis Date: **12/21/2021**		Seq No: **10908829**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	71.00	10						65.00	8.82	10	

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327782

Sample ID: **MB-327782**	Client ID:				Units: **mg/L**		Prep Date: **12/20/2021**		Run No: **473318**
SampleType: **MBLK**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **327782**		Analysis Date: **12/21/2021**		Seq No: **10904944**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-327782**	Client ID:				Units: **mg/L**		Prep Date: **12/20/2021**		Run No: **473318**
SampleType: **LCS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **327782**		Analysis Date: **12/21/2021**		Seq No: **10904946**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1090	0.010	0.1000		109	85	115				

Sample ID: **2112E76-002DMS**	Client ID:				Units: **mg/L**		Prep Date: **12/20/2021**		Run No: **473318**
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **327782**		Analysis Date: **12/21/2021**		Seq No: **10904949**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1100	0.010	0.1000		110	90	110				

Sample ID: **2112E76-002DMSD**	Client ID:				Units: **mg/L**		Prep Date: **12/20/2021**		Run No: **473318**
SampleType: **MSD**	TestCode: **Total Cyanide (SM4500 CN-C, E)**				BatchID: **327782**		Analysis Date: **12/21/2021**		Seq No: **10904950**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.1030	0.010	0.1000		103	90	110	0.1100	6.57	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: 327859

Sample ID: **MB-327859**	Client ID:			Units: **mg/L**	Prep Date: **12/21/2021**	Run No: **473351**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**			BatchID: **327859**	Analysis Date: **12/21/2021**	Seq No: **10906052**

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: **LCS-327859**	Client ID:			Units: **mg/L**	Prep Date: **12/21/2021**	Run No: **473351**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**			BatchID: **327859**	Analysis Date: **12/21/2021**	Seq No: **10906053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003862	0.00020	0.0040		96.6	80	120				

Sample ID: **2112J26-007CMS**	Client ID: **SWC-1**			Units: **mg/L**	Prep Date: **12/21/2021**	Run No: **473351**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **327859**	Analysis Date: **12/21/2021**	Seq No: **10906055**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003894	0.00020	0.0040		97.4	75	125				

Sample ID: **2112J26-008BMS**	Client ID: **SWC-2**			Units: **mg/L**	Prep Date: **12/21/2021**	Run No: **473351**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**			BatchID: **327859**	Analysis Date: **12/21/2021**	Seq No: **10906058**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003831	0.00020	0.0040		95.8	75	125				

Sample ID: **2112J26-007CMSD**	Client ID: **SWC-1**			Units: **mg/L**	Prep Date: **12/21/2021**	Run No: **473351**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**			BatchID: **327859**	Analysis Date: **12/21/2021**	Seq No: **10906056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003895	0.00020	0.0040		97.4	75	125	0.003894	0.026	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473115

Sample ID: **MB-R473115**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473115**	
SampleType: **MBLK**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R473115**		Analysis Date: **12/19/2021**		Seq No: **10900042**	
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: **LCS-R473115**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473115**	
SampleType: **LCS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R473115**		Analysis Date: **12/19/2021**		Seq No: **10900044**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	506.7	10.0	500.0		101	90	110				

Sample ID: **2112I24-002CMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473115**	
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R473115**		Analysis Date: **12/19/2021**		Seq No: **10900052**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	570.6	12.5	375.0	200.8	98.6	90	110				

Sample ID: **2112I96-002AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473115**	
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R473115**		Analysis Date: **12/19/2021**		Seq No: **10900081**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	824.6	12.5	375.0	447.4	101	90	110				

Sample ID: **2112I24-002CMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473115**	
SampleType: **MSD**	TestCode: **Chemical Oxygen Demand (COD) E410.4**				BatchID: **R473115**		Analysis Date: **12/19/2021**		Seq No: **10900055**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	564.9	12.5	375.0	200.8	97.1	90	110	570.6	1.01	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473170

Sample ID: **MB-R473170**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473170**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R473170**		Analysis Date: **12/18/2021**		Seq No: **10919075**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									

Sample ID: **LCS-R473170**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473170**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R473170**		Analysis Date: **12/18/2021**		Seq No: **10919074**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.687	0.25	5.000		93.7	90	110				

Sample ID: **2112O21-001BMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473170**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R473170**		Analysis Date: **12/18/2021**		Seq No: **10919087**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.938	0.25	5.000		98.8	90	110				

Sample ID: **2112O21-001BMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473170**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R473170**		Analysis Date: **12/18/2021**		Seq No: **10919088**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.784	0.25	5.000		95.7	90	110	4.938	3.17	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473210

Sample ID: **MB-R473210**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473210**	
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473210**		Analysis Date: **12/20/2021**		Seq No: **10902043**	
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: **LCS-R473210**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473210**	
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473210**		Analysis Date: **12/20/2021**		Seq No: **10902041**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.05	1.00	25.00		96.2	85	115				

Sample ID: **2112J26-005AMS**	Client ID: **SWA-1**				Units: **mg/L**		Prep Date:		Run No: **473210**	
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473210**		Analysis Date: **12/20/2021**		Seq No: **10902046**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.60	1.00	25.00	1.072	94.1	80	120				

Sample ID: **2112J26-005AMSD**	Client ID: **SWA-1**				Units: **mg/L**		Prep Date:		Run No: **473210**	
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473210**		Analysis Date: **12/20/2021**		Seq No: **10902047**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.01	1.00	25.00	1.072	95.8	80	120	24.60	1.65	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473332

Sample ID: **MB-R473332**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473332**
SampleType: **MBLK**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R473332**	Analysis Date: **12/21/2021**		Seq No: **10906450**

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: **LCS-R473332**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473332**
SampleType: **LCS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R473332**	Analysis Date: **12/21/2021**		Seq No: **10906451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	531.8	10.0	500.0		106	90	110				

Sample ID: **2112J25-015AMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473332**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R473332**	Analysis Date: **12/21/2021**		Seq No: **10906454**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	393.7	12.5	375.0	13.57	101	90	110				

Sample ID: **2112K82-001BMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473332**
SampleType: **MS**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R473332**	Analysis Date: **12/21/2021**		Seq No: **10906477**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	462.2	12.5	375.0	79.78	102	90	110				

Sample ID: **2112J25-015AMSD**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473332**
SampleType: **MSD**	TestCode: **Chemical Oxygen Demand (COD) E410.4**			BatchID: **R473332**	Analysis Date: **12/21/2021**		Seq No: **10906456**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	402.2	12.5	375.0	13.57	104	90	110	393.7	2.15	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473346

Sample ID: **MB-R473346**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473346**	
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473346**		Analysis Date: **12/21/2021**		Seq No: **10905932**	
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: **LCS-R473346**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473346**	
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473346**		Analysis Date: **12/21/2021**		Seq No: **10905930**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.82	1.00	25.00		99.3	85	115				

Sample ID: **2112M15-001EMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473346**	
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473346**		Analysis Date: **12/21/2021**		Seq No: **10905935**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.45	1.00	25.00	2.628	99.3	80	120				

Sample ID: **2112M15-001EMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473346**	
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) by SM5310B**				BatchID: **R473346**		Analysis Date: **12/21/2021**		Seq No: **10905936**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.23	1.00	25.00	2.628	98.4	80	120	27.45	0.805	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473451

Sample ID: **LCS-R473451**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473451**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R473451**		Analysis Date: **12/22/2021**		Seq No: **10909119**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	127.3	3.00	125.0		102	90	110				

Sample ID: **2112N61-001ADUP**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **473451**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R473451**		Analysis Date: **12/22/2021**		Seq No: **10909121**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	21.46	3.00						22.68	5.52	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473468

Sample ID: **MB-R473468**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473468**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R473468**	Analysis Date: **12/16/2021**		Seq No: **10909637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R473468**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473468**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R473468**	Analysis Date: **12/16/2021**		Seq No: **10909635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.15	1.0	10.00		102	90	110				
Nitrate	5.422	0.25	5.000		108	90	110				
Sulfate	26.36	1.0	25.00		105	90	110				

Sample ID: **2112J38-001CMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473468**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R473468**	Analysis Date: **12/17/2021**		Seq No: **10909663**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.33	1.0	10.00	1.454	88.8	90	110				S
Nitrate	5.037	0.25	5.000	0.2437	95.9	90	110				
Sulfate	25.79	1.0	25.00	1.228	98.2	90	110				

Sample ID: **2112J40-001CMS**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **473468**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R473468**	Analysis Date: **12/17/2021**		Seq No: **10909661**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.28	1.0	10.00	2.446	88.4	90	110				S
Nitrate	5.141	0.25	5.000	0.3024	96.8	90	110				
Sulfate	25.28	1.0	25.00	1.165	96.5	90	110				

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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473468

Sample ID: **2112J40-001CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **473468**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R473468** Analysis Date: **12/17/2021** Seq No: **10909662**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.43	1.0	10.00	2.446	89.8	90	110	11.28	1.29	20	S
Nitrate	5.200	0.25	5.000	0.3024	97.9	90	110	5.141	1.13	20	
Sulfate	26.04	1.0	25.00	1.165	99.5	90	110	25.28	2.95	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 MSWLF
Workorder: 2112J26

ANALYTICAL QC SUMMARY REPORT

BatchID: R473701

Sample ID: **MB-R473701**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **473701**
SampleType: **MBLK**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R473701**	Analysis Date: **12/26/2021**	Seq No: **10916031**

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: **LCS-R473701**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **473701**
SampleType: **LCS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R473701**	Analysis Date: **12/26/2021**	Seq No: **10916030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.814	1.00	10.00		98.1	90	110				

Sample ID: **2112J26-009DMS**	Client ID: **SWC-3**			Units: **mg/L**	Prep Date:	Run No: **473701**
SampleType: **MS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R473701**	Analysis Date: **12/27/2021**	Seq No: **10916645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.02	1.00	10.00	2.353	86.7	90	110				S

Sample ID: **2112K94-001AMS**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **473701**
SampleType: **MS**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R473701**	Analysis Date: **12/27/2021**	Seq No: **10916643**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	19.44	1.00	10.00	11.13	83.1	90	110				S

Sample ID: **2112K94-001AMSD**	Client ID:			Units: **mg/L**	Prep Date:	Run No: **473701**
SampleType: **MSD**	TestCode: **Inorganic Anions by IC** **E300.0**			BatchID: **R473701**	Analysis Date: **12/27/2021**	Seq No: **10916644**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	19.60	1.00	10.00	11.13	84.7	90	110	19.44	0.808	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		

End of Report

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

January 07, 2022

Charles Adams
Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County-Hightower Road MSWLF

Dear Charles Adams: Order No: 2112P59

Analytical Environmental Services, Inc. received 2 samples on 12/20/2021 12:46:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 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 11/01/23.
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,

Paris Masoudi

Paris Masoudi
Project Manager

Revision 1/7/2022

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
AES

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2112P59
Page 1 of 1

COMPANY: Atlantic Coast Consulting, Inc.
ADDRESS: 1150 Northmeadow Pkwy Suite 100
PHONE: 770-594-5998
EMAIL: charles.adams@atlcc.net
SAMPLED BY: H. Auld
SIGNATURE: H. Auld

ANALYSIS REQUESTED: App I Metals; NO_3

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	App I Metals	NO_3	REMARKS	Number of Containers
1	PH1-GWC-2	12-17-21	1600	✓		GW	✓			1
2	GWC-8A	12-20-21	1045	✓		GW		✓		1
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

PRESERVATION (see codes)

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. H. Auld	12/20/21@1246	1. Danielle Cordell	12/20/21 12:46
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth Co. Hightower Rd. MSWLF
PROJECT #: G020-113
SITE ADDRESS: 9480 Old Federal Rd Ballground, GA 30107
SEND REPORT TO: Charles adams, betsy mcdaniel betsy.mcdaniel@atlcc.net
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 2

Turnaround Time (TAT) Request
- [x] Standard
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

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.

4.30.20_COC

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Jan-22

Client: Atlantic Coast Consulting, Inc.
Project: Forsyth County-Hightower Road MSWLF
Lab ID: 2112P59

Case Narrative

Revision 1/06/22:

At the request of Betsy McDaniel via email on 1/06/22, Chloride and Sulfate were added to 2112P59-002 "GWC-8A."

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	PH1-GWC-2
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/17/2021 4:00:00 PM
Lab ID:	2112P59-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I METALS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	327898	1	12/23/2021 16:01	EA
Arsenic	BRL	0.0100		mg/L	327898	1	12/23/2021 16:01	EA
Barium	BRL	0.0200		mg/L	327898	1	12/23/2021 16:01	EA
Beryllium	BRL	0.00300		mg/L	327898	1	12/23/2021 16:01	EA
Cadmium	BRL	0.00500		mg/L	327898	1	12/23/2021 16:01	EA
Chromium	BRL	0.0100		mg/L	327898	1	12/23/2021 16:01	EA
Cobalt	BRL	0.0400		mg/L	327898	1	12/23/2021 16:01	EA
Copper	BRL	0.0200		mg/L	327898	1	12/23/2021 16:01	EA
Lead	BRL	0.0150		mg/L	327898	1	12/23/2021 16:01	EA
Nickel	BRL	0.0200		mg/L	327898	1	12/23/2021 16:01	EA
Selenium	BRL	0.0100		mg/L	327898	1	12/23/2021 16:01	EA
Silver	BRL	0.0100		mg/L	327898	1	12/23/2021 16:01	EA
Thallium	BRL	0.00200		mg/L	327898	1	12/23/2021 16:01	EA
Vanadium	BRL	0.0200		mg/L	327898	1	12/23/2021 16:01	EA
Zinc	BRL	0.0200		mg/L	327898	1	12/23/2021 16:01	EA

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 7-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	GWC-8A
Project Name:	Forsyth County-Hightower Road MSWLF	**Collection Date:**	12/20/2021 10:45:00 AM
Lab ID:	2112P59-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	3.1	0.50		mg/L	R473363	1	12/21/2021 15:10	KV
Nitrate	BRL	0.25		mg/L	R473363	1	12/21/2021 15:10	KV
Sulfate	1.4	1.0		mg/L	R473363	1	12/21/2021 15:10	KV

Qualifiers:

*	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2112P59**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

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

13. Cooler 1 Temperature 2.0 °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). CP 12/20/2021

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

27. Comments: _____

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

I certify that I have completed sections 16-27 (dated initials). CH 12/20/21

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* 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). CH 12/20/21

Locked

Analytical Environmental Services, Inc

Date: 7-Jan-22

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Lab Order: 2112P59

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2112P59-001A	PH1-GWC-2	12/17/2021 4:00:00PM	Groundwater	APPENDIX I METALS		12/22/2021 1:43:00PM	12/23/2021
2112P59-002A	GWC-8A	12/20/2021 10:45:00AM	Groundwater	ION SCAN			12/21/2021

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County-Hightower Road MSWLF
Workorder: 2112P59

ANALYTICAL QC SUMMARY REPORT

BatchID: 327898

Sample ID: **MB-327898** Client ID: Units: **mg/L** Prep Date: **12/22/2021** Run No: **473691**
SampleType: **MBLK** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327898** Analysis Date: **12/23/2021** Seq No: **10927840**

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	0.0350									
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: **LCS-327898** Client ID: Units: **mg/L** Prep Date: **12/22/2021** Run No: **473691**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327898** Analysis Date: **12/23/2021** Seq No: **10927841**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1041	0.00600	0.1000		104	80	120				
Arsenic	0.1011	0.0100	0.1000		101	80	120				
Barium	0.1019	0.0200	0.1000		102	80	120				
Beryllium	0.1023	0.00400	0.1000		102	80	120				
Cadmium	0.1022	0.00500	0.1000		102	80	120				
Chromium	0.1018	0.0200	0.1000		102	80	120				
Cobalt	0.1042	0.0500	0.1000		104	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 MSWLF
Workorder: 2112P59

ANALYTICAL QC SUMMARY REPORT

BatchID: 327898

Sample ID: **LCS-327898** Client ID: Units: **mg/L** Prep Date: **12/22/2021** Run No: **473691**
SampleType: **LCS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327898** Analysis Date: **12/23/2021** Seq No: **10927841**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1047	0.0200	0.1000		105	80	120				
Lead	0.1060	0.0100	0.1000		106	80	120				
Nickel	0.1027	0.0400	0.1000		103	80	120				
Selenium	0.09485	0.0500	0.1000		94.9	80	120				
Silver	0.01124	0.00500	0.0100		112	80	120				
Thallium	0.1007	0.00200	0.1000		101	80	120				
Vanadium	0.1018	0.0500	0.1000		102	80	120				
Zinc	0.1004	0.0200	0.1000		100	80	120				

Sample ID: **2112O43-003BMS** Client ID: Units: **mg/L** Prep Date: **12/22/2021** Run No: **473691**
SampleType: **MS** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327898** Analysis Date: **12/23/2021** Seq No: **10927843**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1025	0.00600	0.1000		103	75	125				
Arsenic	0.09897	0.0100	0.1000		99.0	75	125				
Barium	0.3068	0.0200	0.1000	0.1997	107	75	125				
Beryllium	0.1035	0.00400	0.1000		104	75	125				
Cadmium	0.09823	0.00500	0.1000		98.2	75	125				
Chromium	0.1002	0.0200	0.1000		100	75	125				
Cobalt	0.1001	0.0500	0.1000		100	75	125				
Copper	0.1000	0.0200	0.1000		100	75	125				
Lead	0.1050	0.0100	0.1000		105	75	125				
Nickel	0.09648	0.0400	0.1000		96.5	75	125				
Selenium	0.09661	0.0500	0.1000		96.6	75	125				
Silver	0.01105	0.00500	0.0100		110	75	125				
Thallium	0.1028	0.00200	0.1000		103	75	125				
Vanadium	0.09956	0.0500	0.1000		99.6	75	125				
Zinc	0.09537	0.0200	0.1000		95.4	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 MSWLF
Workorder: 2112P59

ANALYTICAL QC SUMMARY REPORT

BatchID: 327898

Sample ID: **2112O43-003BMSD** Client ID: Units: **mg/L** Prep Date: **12/22/2021** Run No: **473691**
SampleType: **MSD** TestCode: **APPENDIX I METALS** **SW6020B** BatchID: **327898** Analysis Date: **12/23/2021** Seq No: **10927844**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1032	0.00600	0.1000		103	75	125	0.1025	0.622	20	
Arsenic	0.1040	0.0100	0.1000		104	75	125	0.09897	4.92	20	
Barium	0.2989	0.0200	0.1000	0.1997	99.2	75	125	0.3068	2.61	20	
Beryllium	0.1003	0.00400	0.1000		100	75	125	0.1035	3.17	20	
Cadmium	0.1002	0.00500	0.1000		100	75	125	0.09823	1.93	20	
Chromium	0.1073	0.0200	0.1000		107	75	125	0.1002	6.91	20	
Cobalt	0.1083	0.0500	0.1000		108	75	125	0.1001	7.82	20	
Copper	0.1031	0.0200	0.1000		103	75	125	0.1000	3.05	20	
Lead	0.1078	0.0100	0.1000		108	75	125	0.1050	2.61	20	
Nickel	0.1053	0.0400	0.1000		105	75	125	0.09648	8.70	20	
Selenium	0.09201	0.0500	0.1000		92.0	75	125	0.09661	4.87	20	
Silver	0.01099	0.00500	0.0100		110	75	125	0.01105	0.529	20	
Thallium	0.1089	0.00200	0.1000		109	75	125	0.1028	5.78	20	
Vanadium	0.1068	0.0500	0.1000		107	75	125	0.09956	7.05	20	
Zinc	0.09830	0.0200	0.1000		98.3	75	125	0.09537	3.02	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 MSWLF
Workorder: 2112P59

ANALYTICAL QC SUMMARY REPORT

BatchID: R473363

Sample ID: **MB-R473363** Client ID: Units: **mg/L** Prep Date: Run No: **473363**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R473363** Analysis Date: **12/21/2021** Seq No: **10930468**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R473363** Client ID: Units: **mg/L** Prep Date: Run No: **473363**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R473363** Analysis Date: **12/21/2021** Seq No: **10930467**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.416	1.0	10.00		94.2	90	110				
Nitrate	4.788	0.25	5.000		95.8	90	110				
Sulfate	23.97	1.0	25.00		95.9	90	110				

Sample ID: **2112P59-002AMS** Client ID: **GWC-8A** Units: **mg/L** Prep Date: Run No: **473363**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R473363** Analysis Date: **12/21/2021** Seq No: **10930491**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.88	1.0	10.00	3.110	87.7	90	110				S
Nitrate	4.396	0.25	5.000		87.9	90	110				S
Sulfate	23.87	1.0	25.00	1.425	89.8	90	110				S

Sample ID: **2112R16-002AMS** Client ID: Units: **mg/L** Prep Date: Run No: **473363**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R473363** Analysis Date: **12/21/2021** Seq No: **10930493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	13.91	1.0	10.00	4.823	90.9	90	110				
Nitrate	7.107	0.25	5.000	2.473	92.7	90	110				
Sulfate	25.10	1.0	25.00	1.681	93.7	90	110				

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 MSWLF
Workorder: 2112P59

ANALYTICAL QC SUMMARY REPORT

BatchID: R473363

Sample ID: **2112P59-002AMSD** Client ID: **GWC-8A** Units: **mg/L** Prep Date: Run No: **473363**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R473363** Analysis Date: **12/21/2021** Seq No: **10930492**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	11.97	1.0	10.00	3.110	88.6	90	110	11.88	0.775	20	S
Nitrate	4.588	0.25	5.000		91.8	90	110	4.396	4.27	20	
Sulfate	24.93	1.0	25.00	1.425	94.0	90	110	23.87	4.37	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		

End of Report

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 28, 2022

Betsy McDaniel
Atlantic Coast Consulting, Inc.

1150 Northmeadow Pkwy
Roswell GA 30076

RE: Forsyth County Pilot Test

Dear Betsy McDaniel: Order No: 2201J18

Analytical Environmental Services, Inc. received 4 samples on 1/18/2022 1:17:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.
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 07/01/21-06/30/22.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/22 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 11/01/23.
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,

Paris Masoudi

Paris Masoudi

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

CHAIN OF CUSTODY

Work Order: 2201J18
Page 1 of 1

COMPANY: Atlantic Coast Consulting Inc.	ADDRESS: 1150 Northmeadow Parkway Suite 100 Roswell, GA, 30076
PHONE: 770-594-5998	EMAIL:
SAMPLED BY: Toby Johnson	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: Chloride	Manganese	App IV VOC	PRESERVATION (see codes): I	N	H+I	REMARKS	Number of Containers
1	AMW-12	1-18-22	1005	✓		GW	✓	✓	✓				Report & analyze for Potassium	4
2	AMW-12R	1-18-22	1050	✓		GW	✓	✓	✓				Report & analyze for Potassium	4
3	Field Blank	1-18-22	1055	—		—			✓					2
4	Trip Blank	—	—	—		—			✓					2
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	1-18-2022/1317	1.	1.18.22 13:17
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
Client FedEx UPS US mail courier
other: _____

PROJECT INFORMATION
PROJECT NAME: Forsyth County Pilot Study
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Charles Adams
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 8 12 (TBJ)

Turnaround Time (TAT) Request
- [x] Standard
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

REGULATORY PROGRAM (if any):
DATA PACKAGE: I ○ II ○ III ○ IV ○

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.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

4.30.20_COC

White Copy - Original; Yellow Copy - Client

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-12
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:05:00 AM
Lab ID:	2201J18-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	1.3	1.0		mg/L	R475774	1	01/21/2022 22:12	KV
APPENDIX I VOLATILE ORGANICS SW8260D					**(SW5030B)**			
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,1-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,1-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,2,3-Trichloropropane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	329368	1	01/19/2022 20:06	OM
1,2-Dibromoethane	BRL	1.0		ug/L	329368	1	01/19/2022 20:06	OM
1,2-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
1,2-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,2-Dichloropropane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
1,4-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
2-Butanone	BRL	100		ug/L	329368	1	01/19/2022 20:06	OM
2-Hexanone	BRL	50		ug/L	329368	1	01/19/2022 20:06	OM
4-Methyl-2-pentanone	BRL	50		ug/L	329368	1	01/19/2022 20:06	OM
Acetone	BRL	100		ug/L	329368	1	01/19/2022 20:06	OM
Acrylonitrile	BRL	50		ug/L	329368	1	01/19/2022 20:06	OM
Benzene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Bromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Bromodichloromethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Bromoform	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Bromomethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Carbon disulfide	BRL	5.0		ug/L	329368	1	01/19/2022 20:06	OM
Carbon tetrachloride	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Chlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Chloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Chloroform	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Chloromethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Dibromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Dibromomethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Ethylbenzene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Iodomethane	BRL	100		ug/L	329368	1	01/19/2022 20:06	OM
Methylene chloride	BRL	5.0		ug/L	329368	1	01/19/2022 20:06	OM
Styrene	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Tetrachloroethene	3.3	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Toluene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	329368	1	01/19/2022 20:06	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 28-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	AMW-12
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:05:00 AM
Lab ID:	2201J18-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Trichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Trichlorofluoromethane	BRL	10		ug/L	329368	1	01/19/2022 20:06	OM
Vinyl acetate	BRL	100		ug/L	329368	1	01/19/2022 20:06	OM
Vinyl chloride	BRL	2.0		ug/L	329368	1	01/19/2022 20:06	OM
Xylenes, Total	BRL	5.0		ug/L	329368	1	01/19/2022 20:06	OM
Surr: 4-Bromofluorobenzene	86.1	74.9-127		%REC	329368	1	01/19/2022 20:06	OM
Surr: Dibromofluoromethane	84.9	78.9-121		%REC	329368	1	01/19/2022 20:06	OM
Surr: Toluene-d8	90.1	81.5-120		%REC	329368	1	01/19/2022 20:06	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Manganese	BRL	0.0150		mg/L	329499	1	01/24/2022 15:39	KB
Potassium	1.54	0.500		mg/L	329499	1	01/24/2022 15:39	KB

Qualifiers:

*	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.	**Client Sample ID:**	AMW-12R
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:50:00 AM
Lab ID:	2201J18-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Chloride	1.2	1.0		mg/L	R476101	1	01/25/2022 22:15	KV
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,1-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,1-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,2,3-Trichloropropane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	329368	1	01/19/2022 19:40	OM
1,2-Dibromoethane	BRL	1.0		ug/L	329368	1	01/19/2022 19:40	OM
1,2-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
1,2-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,2-Dichloropropane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
1,4-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
2-Butanone	BRL	100		ug/L	329368	1	01/19/2022 19:40	OM
2-Hexanone	BRL	50		ug/L	329368	1	01/19/2022 19:40	OM
4-Methyl-2-pentanone	BRL	50		ug/L	329368	1	01/19/2022 19:40	OM
Acetone	BRL	100		ug/L	329368	1	01/19/2022 19:40	OM
Acrylonitrile	BRL	50		ug/L	329368	1	01/19/2022 19:40	OM
Benzene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Bromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Bromodichloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Bromoform	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Bromomethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Carbon disulfide	BRL	5.0		ug/L	329368	1	01/19/2022 19:40	OM
Carbon tetrachloride	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Chlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Chloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Chloroform	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Chloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Dibromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Dibromomethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Ethylbenzene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Iodomethane	BRL	100		ug/L	329368	1	01/19/2022 19:40	OM
Methylene chloride	BRL	5.0		ug/L	329368	1	01/19/2022 19:40	OM
Styrene	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Tetrachloroethene	2.9	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Toluene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	329368	1	01/19/2022 19:40	OM

Qualifiers:

*	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.	**Client Sample ID:**	AMW-12R
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:50:00 AM
Lab ID:	2201J18-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
Trichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Trichlorofluoromethane	BRL	10		ug/L	329368	1	01/19/2022 19:40	OM
Vinyl acetate	BRL	100		ug/L	329368	1	01/19/2022 19:40	OM
Vinyl chloride	BRL	2.0		ug/L	329368	1	01/19/2022 19:40	OM
Xylenes, Total	BRL	5.0		ug/L	329368	1	01/19/2022 19:40	OM
Surr: 4-Bromofluorobenzene	85.3	74.9-127		%REC	329368	1	01/19/2022 19:40	OM
Surr: Dibromofluoromethane	85.7	78.9-121		%REC	329368	1	01/19/2022 19:40	OM
Surr: Toluene-d8	89.7	81.5-120		%REC	329368	1	01/19/2022 19:40	OM
METALS, TOTAL SW6010D				**(SW3010A)**				
Manganese	BRL	0.0150		mg/L	329499	1	01/24/2022 15:41	KB
Potassium	1.50	0.500		mg/L	329499	1	01/24/2022 15:41	KB

Qualifiers:

*	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.	**Client Sample ID:**	FIELD BLANK
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:55:00 AM
Lab ID:	2201J18-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,1-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,1-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,2,3-Trichloropropane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	329368	1	01/19/2022 19:16	OM
1,2-Dibromoethane	BRL	1.0		ug/L	329368	1	01/19/2022 19:16	OM
1,2-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
1,2-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,2-Dichloropropane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
1,4-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
2-Butanone	BRL	100		ug/L	329368	1	01/19/2022 19:16	OM
2-Hexanone	BRL	50		ug/L	329368	1	01/19/2022 19:16	OM
4-Methyl-2-pentanone	BRL	50		ug/L	329368	1	01/19/2022 19:16	OM
Acetone	BRL	100		ug/L	329368	1	01/19/2022 19:16	OM
Acrylonitrile	BRL	50		ug/L	329368	1	01/19/2022 19:16	OM
Benzene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Bromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Bromodichloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Bromoform	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Bromomethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Carbon disulfide	BRL	5.0		ug/L	329368	1	01/19/2022 19:16	OM
Carbon tetrachloride	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Chlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Chloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Chloroform	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Chloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Dibromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Dibromomethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Ethylbenzene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Iodomethane	BRL	100		ug/L	329368	1	01/19/2022 19:16	OM
Methylene chloride	BRL	5.0		ug/L	329368	1	01/19/2022 19:16	OM
Styrene	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Tetrachloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Toluene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	329368	1	01/19/2022 19:16	OM
Trichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Trichlorofluoromethane	BRL	10		ug/L	329368	1	01/19/2022 19:16	OM
Vinyl acetate	BRL	100		ug/L	329368	1	01/19/2022 19:16	OM

Qualifiers:

*	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.	**Client Sample ID:**	FIELD BLANK
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022 10:55:00 AM
Lab ID:	2201J18-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	329368	1	01/19/2022 19:16	OM
Xylenes, Total	BRL	5.0		ug/L	329368	1	01/19/2022 19:16	OM
Surr: 4-Bromofluorobenzene	85.6	74.9-127		%REC	329368	1	01/19/2022 19:16	OM
Surr: Dibromofluoromethane	87.3	78.9-121		%REC	329368	1	01/19/2022 19:16	OM
Surr: Toluene-d8	91.4	81.5-120		%REC	329368	1	01/19/2022 19:16	OM

Qualifiers:

*	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.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022
Lab ID:	2201J18-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D				**(SW5030B)**				
1,1,1,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,1,1-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,1,2,2-Tetrachloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,1,2-Trichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,1-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,1-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,2,3-Trichloropropane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	329368	1	01/19/2022 18:51	OM
1,2-Dibromoethane	BRL	1.0		ug/L	329368	1	01/19/2022 18:51	OM
1,2-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
1,2-Dichloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,2-Dichloropropane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
1,4-Dichlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
2-Butanone	BRL	100		ug/L	329368	1	01/19/2022 18:51	OM
2-Hexanone	BRL	50		ug/L	329368	1	01/19/2022 18:51	OM
4-Methyl-2-pentanone	BRL	50		ug/L	329368	1	01/19/2022 18:51	OM
Acetone	BRL	100		ug/L	329368	1	01/19/2022 18:51	OM
Acrylonitrile	BRL	50		ug/L	329368	1	01/19/2022 18:51	OM
Benzene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Bromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Bromodichloromethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Bromoform	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Bromomethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Carbon disulfide	BRL	5.0		ug/L	329368	1	01/19/2022 18:51	OM
Carbon tetrachloride	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Chlorobenzene	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Chloroethane	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Chloroform	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Chloromethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
cis-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
cis-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Dibromochloromethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Dibromomethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Ethylbenzene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Iodomethane	BRL	100		ug/L	329368	1	01/19/2022 18:51	OM
Methylene chloride	BRL	5.0		ug/L	329368	1	01/19/2022 18:51	OM
Styrene	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Tetrachloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Toluene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
trans-1,2-Dichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
trans-1,3-Dichloropropene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
trans-1,4-Dichloro-2-butene	BRL	100		ug/L	329368	1	01/19/2022 18:51	OM
Trichloroethene	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Trichlorofluoromethane	BRL	10		ug/L	329368	1	01/19/2022 18:51	OM
Vinyl acetate	BRL	100		ug/L	329368	1	01/19/2022 18:51	OM

Qualifiers:

*	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

Analytical Environmental Services, Inc **Date:** 28-Jan-22

Client:	Atlantic Coast Consulting, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Forsyth County Pilot Test	**Collection Date:**	1/18/2022
Lab ID:	2201J18-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
APPENDIX I VOLATILE ORGANICS SW8260D (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	329368	1	01/19/2022 18:51	OM
Xylenes, Total	BRL	5.0		ug/L	329368	1	01/19/2022 18:51	OM
Surr: 4-Bromofluorobenzene	86.2	74.9-127		%REC	329368	1	01/19/2022 18:51	OM
Surr: Dibromofluoromethane	86.6	78.9-121		%REC	329368	1	01/19/2022 18:51	OM
Surr: Toluene-d8	89.6	81.5-120		%REC	329368	1	01/19/2022 18:51	OM

Qualifiers:

*	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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Atlantic Coast Consulting, Inc.** AES Work Order Number: **2201J18**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

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

13. Cooler 1 Temperature 2.7 °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). CP 1/18/2022

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

27. Comments:

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

I certify that I have completed sections 16-27 (dated initials). HM 1/18/22

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* 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). HM 1/18/22

Locked

Client: Atlantic Coast Consulting, Inc.
Project Name: Forsyth County Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 329368

Sample ID: **MB-329368** Client ID: Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/19/2022** Seq No: **10970501**

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									

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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 329368

Sample ID: **MB-329368** Client ID: Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **MBLK** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/19/2022** Seq No: **10970501**

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	42.44	0	50.00		84.9	74.9	127				
Surr: Dibromofluoromethane	43.96	0	50.00		87.9	78.9	121				
Surr: Toluene-d8	44.74	0	50.00		89.5	81.5	120				

Sample ID: **LCS-329368** Client ID: Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/19/2022** Seq No: **10970507**

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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 329368

Sample ID: **LCS-329368** Client ID: Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **LCS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/19/2022** Seq No: **10970507**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	22.27	5.0	20.00		111	67.3	134				
Benzene	21.47	5.0	20.00		107	78.6	124				
Chlorobenzene	21.87	5.0	20.00		109	78.9	127				
Toluene	21.24	5.0	20.00		106	77.7	125				
Trichloroethene	21.54	5.0	20.00		108	77	130				
Surr: 4-Bromofluorobenzene	42.94	0	50.00		85.9	74.9	127				
Surr: Dibromofluoromethane	43.63	0	50.00		87.3	78.9	121				
Surr: Toluene-d8	44.40	0	50.00		88.8	81.5	120				

Sample ID: **2201J18-002AMS** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **MS** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/20/2022** Seq No: **10972529**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	22.65	5.0	20.00		113	67.6	143				
Benzene	21.78	5.0	20.00		109	70.5	136				
Chlorobenzene	21.50	5.0	20.00		108	77.1	133				
Toluene	21.63	5.0	20.00		108	66.4	140				
Trichloroethene	22.15	5.0	20.00		111	75.1	140				
Surr: 4-Bromofluorobenzene	47.36	0	50.00		94.7	74.9	127				
Surr: Dibromofluoromethane	47.38	0	50.00		94.8	78.9	121				
Surr: Toluene-d8	46.43	0	50.00		92.9	81.5	120				

Sample ID: **2201J18-002AMSD** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/20/2022** Seq No: **10972530**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.71	5.0	20.00		104	67.6	143	22.65	8.95	19.6	
Benzene	20.62	5.0	20.00		103	70.5	136	21.78	5.47	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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 329368

Sample ID: **2201J18-002AMSD** Client ID: **AMW-12R** Units: **ug/L** Prep Date: **01/19/2022** Run No: **475530**
SampleType: **MSD** TestCode: **APPENDIX I VOLATILE ORGANICS SW8260D** BatchID: **329368** Analysis Date: **01/20/2022** Seq No: **10972530**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	19.89	5.0	20.00		99.4	77.1	133	21.50	7.78	20	
Toluene	20.04	5.0	20.00		100	66.4	140	21.63	7.63	20	
Trichloroethene	21.04	5.0	20.00		105	75.1	140	22.15	5.14	20	
Surr: 4-Bromofluorobenzene	47.42	0	50.00		94.8	74.9	127	47.36	0	0	
Surr: Dibromofluoromethane	47.31	0	50.00		94.6	78.9	121	47.38	0	0	
Surr: Toluene-d8	46.82	0	50.00		93.6	81.5	120	46.43	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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: 329499

Sample ID: **MB-329499**	Client ID:			Units: **mg/L**	Prep Date: **01/24/2022**	Run No: **475779**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **329499**	Analysis Date: **01/24/2022**	Seq No: **10977241**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	BRL	0.0150									
Potassium	BRL	0.500									

Sample ID: **LCS-329499**	Client ID:			Units: **mg/L**	Prep Date: **01/24/2022**	Run No: **475779**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **329499**	Analysis Date: **01/24/2022**	Seq No: **10977242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	1.133	0.0150	1.000		113	80	120				
Potassium	11.22	0.500	10.00	0.4450	108	80	120				

Sample ID: **2201O14-002BMS**	Client ID:			Units: **mg/L**	Prep Date: **01/24/2022**	Run No: **475779**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **329499**	Analysis Date: **01/24/2022**	Seq No: **10977244**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	1.200	0.0150	1.000	0.09021	111	75	125				
Potassium	11.49	0.500	10.00	0.7250	108	75	125				

Sample ID: **2201O14-002BMSD**	Client ID:			Units: **mg/L**	Prep Date: **01/24/2022**	Run No: **475779**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **329499**	Analysis Date: **01/24/2022**	Seq No: **10977245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	1.216	0.0150	1.000	0.09021	113	75	125	1.200	1.35	20	
Potassium	11.66	0.500	10.00	0.7250	109	75	125	11.49	1.51	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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: R475774

Sample ID: **MB-R475774**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **475774**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R475774**		Analysis Date: **01/21/2022**		Seq No: **10977212**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									

Sample ID: **LCS-R475774**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **475774**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R475774**		Analysis Date: **01/21/2022**		Seq No: **10977211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.914	1.0	10.00		99.1	90	110				

Sample ID: **2201G18-001AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **475774**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R475774**		Analysis Date: **01/22/2022**		Seq No: **10977220**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.503	1.0	10.00		95.0	90	110				

Sample ID: **2201G18-001AMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **475774**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R475774**		Analysis Date: **01/22/2022**		Seq No: **10977221**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.505	1.0	10.00		95.1	90	110	9.503	0.023	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 Pilot Test
Workorder: 2201J18

ANALYTICAL QC SUMMARY REPORT

BatchID: R476101

Sample ID: **MB-R476101**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **476101**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R476101**		Analysis Date: **01/25/2022**		Seq No: **10988122**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	BRL	1.0									

Sample ID: **LCS-R476101**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **476101**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R476101**		Analysis Date: **01/25/2022**		Seq No: **10988121**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.626	1.0	10.00		96.3	90	110				

Sample ID: **2201J18-002BMS**	Client ID: **AMW-12R**				Units: **mg/L**		Prep Date:		Run No: **476101**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R476101**		Analysis Date: **01/26/2022**		Seq No: **10988132**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.950	1.0	10.00	1.210	87.4	90	110				S

Sample ID: **2201J18-002BMSD**	Client ID: **AMW-12R**				Units: **mg/L**		Prep Date:		Run No: **476101**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R476101**		Analysis Date: **01/26/2022**		Seq No: **10988133**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	9.885	1.0	10.00	1.210	86.7	90	110	9.950	0.654	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		

End of Report

ATTACHMENT B

STATISTICAL ANALYSIS

Atlantic Coast Consulting, Inc.

STATISTICAL ANALYSIS:
Kruskal-Wallis Non-Parametric Test

Forsyth County - Hightower Road MSWLF - Phase I
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-2	FALSE	1%
1,1-Dichloroethane	PH1-GWB-1	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-3	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	1%
1,1-Dichloroethane	PH1-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-4	FALSE	0.45%
1,1-Dichloroethane	GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-3	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	0.45%
cis-1,2-Dichloroethene	GWC-1	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.

Forsyth County - Hightower Road MSWLF - Phase I
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWC-4	FALSE	1%
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWC-2	TRUE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-3	TRUE	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
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWC-3A	TRUE	1%
Trichloroethene	PH1-GWA-2	TRUE	0.45%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWC-2	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
Barium	PH1-GWA-1A	TRUE	1%
Barium	PH1-GWA-2	TRUE	1%
Barium	PH1-GWB-1	TRUE	1%
Barium	PH1-GWB-2	FALSE	1%
Barium	PH1-GWC-2	FALSE	1%
Barium	PH1-GWC-4	TRUE	1%
Barium	GWC-1	TRUE	1%
Barium	PH1-GWA-1	FALSE	1%
Barium	PH1-GWC-1	TRUE	1%
Barium	PH1-GWC-3	TRUE	1%
Barium	PH1-GWC-3A	TRUE	1%
Barium	PH1-GWA-1A	FALSE	0.45%
Barium	PH1-GWA-2	TRUE	0.45%
Barium	PH1-GWB-1	TRUE	0.45%
Barium	PH1-GWB-2	FALSE	0.45%
Barium	PH1-GWC-2	FALSE	0.45%
Barium	PH1-GWC-4	TRUE	0.45%
Barium	GWC-1	TRUE	0.45%
Barium	PH1-GWA-1	FALSE	0.45%
Barium	PH1-GWC-1	TRUE	0.45%
Barium	PH1-GWC-3	TRUE	0.45%
Barium	PH1-GWC-3A	TRUE	0.45%
Chromium	PH1-GWA-1A	FALSE	1%
Chromium	PH1-GWA-2	FALSE	1%
Chromium	PH1-GWB-1	FALSE	1%
Chromium	PH1-GWB-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 - Phase I
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chromium	PH1-GWC-2	FALSE	1%
Chromium	PH1-GWC-4	FALSE	1%
Chromium	GWC-1	FALSE	1%
Chromium	PH1-GWA-1	FALSE	1%
Chromium	PH1-GWC-1	FALSE	1%
Chromium	PH1-GWC-3	FALSE	1%
Chromium	PH1-GWC-3A	FALSE	1%
Chromium	PH1-GWA-1A	FALSE	0.45%
Chromium	PH1-GWA-2	FALSE	0.45%
Chromium	PH1-GWB-1	FALSE	0.45%
Chromium	PH1-GWB-2	FALSE	0.45%
Chromium	PH1-GWC-2	FALSE	0.45%
Chromium	PH1-GWC-4	FALSE	0.45%
Chromium	GWC-1	FALSE	0.45%
Chromium	PH1-GWA-1	FALSE	0.45%
Chromium	PH1-GWC-1	FALSE	0.45%
Chromium	PH1-GWC-3	FALSE	0.45%
Chromium	PH1-GWC-3A	FALSE	0.45%
Cobalt	PH1-GWA-1A	FALSE	1%
Cobalt	PH1-GWA-2	FALSE	1%
Cobalt	PH1-GWB-1	FALSE	1%
Cobalt	PH1-GWB-2	FALSE	1%
Cobalt	PH1-GWC-2	FALSE	1%
Cobalt	PH1-GWC-4	FALSE	1%
Cobalt	GWC-1	FALSE	1%
Cobalt	PH1-GWA-1	TRUE	1%
Cobalt	PH1-GWC-1	FALSE	1%
Cobalt	PH1-GWC-3	FALSE	1%
Cobalt	PH1-GWC-3A	FALSE	1%
Cobalt	PH1-GWA-1A	FALSE	0.45%
Cobalt	PH1-GWA-2	FALSE	0.45%
Cobalt	PH1-GWB-1	FALSE	0.45%
Cobalt	PH1-GWB-2	FALSE	0.45%
Cobalt	PH1-GWC-2	FALSE	0.45%
Cobalt	PH1-GWC-4	FALSE	0.45%
Cobalt	GWC-1	FALSE	0.45%
Cobalt	PH1-GWA-1	TRUE	0.45%
Cobalt	PH1-GWC-1	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.

Forsyth County - Hightower Road MSWLF - Phase I
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	PH1-GWC-3	FALSE	0.45%
Cobalt	PH1-GWC-3A	FALSE	0.45%
Zinc	PH1-GWA-1A	FALSE	1%
Zinc	PH1-GWA-2	FALSE	1%
Zinc	PH1-GWB-1	FALSE	1%
Zinc	PH1-GWB-2	TRUE	1%
Zinc	PH1-GWC-2	FALSE	1%
Zinc	PH1-GWC-4	FALSE	1%
Zinc	GWC-1	FALSE	1%
Zinc	PH1-GWA-1	TRUE	1%
Zinc	PH1-GWC-1	FALSE	1%
Zinc	PH1-GWC-3	FALSE	1%
Zinc	PH1-GWC-3A	FALSE	1%
Zinc	PH1-GWA-1A	FALSE	0.45%
Zinc	PH1-GWA-2	FALSE	0.45%
Zinc	PH1-GWB-1	FALSE	0.45%
Zinc	PH1-GWB-2	TRUE	0.45%
Zinc	PH1-GWC-2	FALSE	0.45%
Zinc	PH1-GWC-4	FALSE	0.45%
Zinc	GWC-1	FALSE	0.45%
Zinc	PH1-GWA-1	TRUE	0.45%
Zinc	PH1-GWC-1	FALSE	0.45%
Zinc	PH1-GWC-3	FALSE	0.45%
Zinc	PH1-GWC-3A	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	6/13/2016	ND<1	61
	12/9/2016	ND<1	61
	6/14/2017	ND<1	61
	12/11/2017	ND<1	61
	6/18/2018	ND<1	61
	12/17/2018	ND<1	61
	6/13/2019	ND<1	61
	12/12/2019	ND<1	61
	6/25/2020	ND<1	61
	12/18/2020	ND<1	61
	6/15/2021	ND<1	61
	12/15/2021	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWA-4	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/12/2017	ND<1	61
	6/18/2018	ND<1	61
	12/18/2018	ND<1	61
	6/11/2019	ND<1	61
	12/9/2019	ND<1	61
	6/24/2020	ND<1	61
	12/15/2020	ND<1	61
	6/16/2021	ND<1	61
	12/14/2021	ND<1	61
Rank Sum = 732			
Rank Mean = 61			

Background Rank Sum = 1464
Background Rank Mean = 61

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/13/2017	ND<1	61
	6/18/2018	ND<1	61
	12/18/2018	ND<1	61
	6/11/2019	ND<1	61
	12/9/2019	ND<1	61
	6/24/2020	ND<1	61
	12/15/2020	ND<1	61
	6/16/2021	ND<1	61

	12/14/2021	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWB-1	6/13/2016	ND<1	61
	12/7/2016	ND<1	61
	6/15/2017	ND<1	61
	12/12/2017	ND<1	61
	6/18/2018	ND<1	61
	12/17/2018	ND<1	61
	6/11/2019	ND<1	61
	12/10/2019	ND<1	61
	6/24/2020	ND<1	61
	12/17/2020	ND<1	61
	6/14/2021	ND<1	61
	12/13/2021	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWB-2	6/13/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/17/2018	ND<1	61
	6/12/2019	ND<1	61
	12/12/2019	ND<1	61
	6/24/2020	ND<1	61
	12/17/2020	ND<1	61
	6/16/2021	ND<1	61
	12/13/2021	ND<1	61
Rank Sum = 732			
Rank Mean = 61			
PH1-GWC-4	6/13/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/19/2018	ND<1	61
	6/13/2019	ND<1	61
	6/22/2020	ND<1	61
	12/17/2020	ND<1	61
	6/16/2021	ND<1	61
	12/15/2021	ND<1	61
Rank Sum = 671			
Rank Mean = 61			
GWC-1	6/14/2016	ND<1	61
	12/8/2016	ND<1	61
	6/13/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/17/2018	ND<1	61
	6/13/2019	ND<1	61
	12/10/2019	ND<1	61
	6/22/2020	ND<1	61

	12/16/2020	ND<1	61
	6/15/2021	ND<1	61
	12/15/2021	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWA-1	6/14/2016	ND<1	61
	12/7/2016	ND<1	61
	6/13/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/18/2018	ND<1	61
	6/10/2019	ND<1	61
	12/9/2019	ND<1	61
	6/22/2020	ND<1	61
	12/15/2020	ND<1	61
	6/15/2021	ND<1	61
	12/13/2021	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWA-1A	6/14/2016	ND<1	61
	12/7/2016	ND<1	61
	6/12/2017	ND<1	61
	12/13/2017	ND<1	61
	6/19/2018	ND<1	61
	12/18/2018	ND<1	61
	6/10/2019	ND<1	61
	12/10/2019	ND<1	61
	6/22/2020	ND<1	61
	12/18/2020	ND<1	61
	6/15/2021	ND<1	61
	12/13/2021	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWC-2	6/14/2016	3.1	140
	12/7/2016	3.2	143
	6/13/2017	3	136
	12/13/2017	3.4	148
	6/19/2018	ND<1	61
	12/18/2018	2.8	131
	6/10/2019	3	137
	12/10/2019	3.7	153
	6/22/2020	3.1	141
	12/17/2020	3.8	154
	6/17/2021	3	138
	12/14/2021	2.9	134

Rank Sum = 1616
Rank Mean = 134.667

PH1-GWC-1	6/15/2016	ND<1	61
	12/8/2016	ND<1	61
	6/15/2017	ND<1	61
	12/11/2017	ND<1	61
	6/19/2018	ND<1	61
	12/19/2018	ND<1	61

	6/13/2019	ND<1	61
	12/11/2019	ND<1	61
	6/22/2020	ND<1	61
	12/17/2020	ND<1	61
	6/16/2021	ND<1	61
	12/15/2021	ND<1	61

Rank Sum = 732
Rank Mean = 61

PH1-GWC-3	6/16/2016	3.3	146
	12/8/2016	3.6	150
	6/13/2017	2.7	128
	12/12/2017	3.6	151
	6/19/2018	3.2	144
	12/18/2018	2.7	129
	6/10/2019	3.3	147
	12/9/2019	4	155
	6/22/2020	2.9	135
	12/15/2020	3.6	152
	6/14/2021	3.4	149
	12/14/2021	3.2	145

Rank Sum = 1731
Rank Mean = 144.25

PH1-GWC-3A	6/16/2016	2.7	130
	12/8/2016	2.8	132
	6/13/2017	2	122
	12/12/2017	2.6	126
	6/19/2018	2.6	127
	12/18/2018	2.3	123
	6/10/2019	2.5	125
	12/9/2019	3.1	142
	6/26/2020	ND<1	61
	12/15/2020	3	139
	6/14/2021	2.8	133
	12/14/2021	2.3	124

Rank Sum = 1484
Rank Mean = 123.667

Calculation Results:

Kruskal-Wallis H Statistic = 74.7486
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 142.573
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
74.7486 > 19.6752 indicating a significant group difference at 5% significance level
142.573 > 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 61

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	61	0	36.9204
PH1-GWB-1	61	0	36.9204
PH1-GWB-2	61	0	36.9204
PH1-GWC-4	61	0	38.0227
GWC-1	61	0	36.9204

PH1-GWA-1	61	0	36.9204
PH1-GWA-1A	61	0	36.9204
PH1-GWC-2	**134.667**	**73.6667**	**36.9204**
PH1-GWC-1	61	0	36.9204
PH1-GWC-3	**144.25**	**83.25**	**36.9204**
PH1-GWC-3A	**123.667**	**62.6667**	**36.9204**

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 61

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	61	0	42.0901
PH1-GWB-1	61	0	42.0901
PH1-GWB-2	61	0	42.0901
PH1-GWC-4	61	0	43.3468
GWC-1	61	0	42.0901
PH1-GWA-1	61	0	42.0901
PH1-GWA-1A	61	0	42.0901
PH1-GWC-2	**134.667**	**73.6667**	**42.0901**
PH1-GWC-1	61	0	42.0901
PH1-GWC-3	**144.25**	**83.25**	**42.0901**
PH1-GWC-3A	**123.667**	**62.6667**	**42.0901**

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	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
	12/12/2019	ND<1	47.5
	6/25/2020	ND<1	47.5
	12/18/2020	ND<1	47.5
	6/15/2021	ND<1	47.5
	12/15/2021	ND<1	47.5

Rank Sum = 570

Rank Mean = 47.5

PH1-GWA-4	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
	12/9/2019	ND<1	47.5
	6/24/2020	ND<1	47.5
	12/15/2020	ND<1	47.5
	6/16/2021	ND<1	47.5
	12/14/2021	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-2	6/13/2016	32	145
	12/7/2016	70	154
	6/15/2017	49	150
	12/13/2017	64	153
	6/18/2018	46	149
	12/18/2018	55	152
	6/11/2019	26	141
	12/9/2019	120	155
	6/24/2020	42	148
	12/15/2020	52	151
	6/16/2021	34	146

	12/14/2021	35	147

Rank Sum = 1791
Rank Mean = 149.25

PH1-GWB-1	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
	12/17/2020	ND<1	47.5
	6/14/2021	ND<1	47.5
	12/13/2021	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWB-2	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	99
	6/12/2019	ND<1	47.5
	12/12/2019	ND<1	47.5
	6/24/2020	ND<1	47.5
	12/17/2020	ND<1	47.5
	6/16/2021	ND<1	47.5
	12/13/2021	ND<1	47.5

Rank Sum = 621.5
Rank Mean = 51.7917

PH1-GWC-4	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
	12/17/2020	ND<1	47.5
	6/16/2021	ND<1	47.5
	12/15/2021	ND<1	47.5

Rank Sum = 522.5
Rank Mean = 47.5

GWC-1	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

	12/16/2020	ND<1	47.5
	6/15/2021	ND<1	47.5
	12/15/2021	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWA-1	6/14/2016	8.3	119
	12/7/2016	5	109
	6/13/2017	5.2	111
	12/13/2017	3.5	103
	6/19/2018	3.1	100
	12/18/2018	2.4	98
	6/10/2019	5.2	112
	12/9/2019	3.7	104
	6/22/2020	4	105
	12/15/2020	4.3	107
	6/15/2021	5.8	114
	12/13/2021	4.1	106

Rank Sum = 1288
Rank Mean = 107.333

PH1-GWA-1A	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
	6/22/2020	ND<1	47.5
	12/18/2020	ND<1	47.5
	6/15/2021	ND<1	47.5
	12/13/2021	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWC-2	6/14/2016	2.2	95
	12/7/2016	2.3	97
	6/13/2017	4.4	108
	12/13/2017	3.1	101
	6/19/2018	2.2	96
	12/18/2018	3.3	102
	6/10/2019	5.1	110
	12/10/2019	5.7	113
	6/22/2020	6	115
	12/17/2020	7.8	118
	6/17/2021	7	117
	12/14/2021	6.7	116

Rank Sum = 1288
Rank Mean = 107.333

PH1-GWC-1	6/15/2016	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
	12/11/2019	ND<1	47.5
	6/22/2020	ND<1	47.5
	12/17/2020	ND<1	47.5
	6/16/2021	ND<1	47.5
	12/15/2021	ND<1	47.5

Rank Sum = 570
Rank Mean = 47.5

PH1-GWC-3	6/16/2016	15	130
	12/8/2016	15	131
	6/13/2017	14	127
	12/12/2017	15	132
	6/19/2018	15	133
	12/18/2018	15	134
	6/10/2019	19	137
	12/9/2019	27	143
	6/22/2020	20	139
	12/15/2020	26	142
	6/14/2021	28	144
	12/14/2021	25	140

Rank Sum = 1632
Rank Mean = 136

PH1-GWC-3A	6/16/2016	9.9	121
	12/8/2016	11	123
	6/13/2017	11	124
	12/12/2017	10	122
	6/19/2018	12	126
	12/18/2018	9.2	120
	6/10/2019	11	125
	12/9/2019	16	135
	6/26/2020	14	128
	12/15/2020	16	136
	6/14/2021	19	138
	12/14/2021	14	129

Rank Sum = 1527
Rank Mean = 127.25

Calculation Results:

Kruskal-Wallis H Statistic = 117.368
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 151.059
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
117.368 > 19.6752 indicating a significant group difference at 5% significance level
151.059 > 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-2	**149.25**	**101.75**	**36.9204**
PH1-GWB-1	47.5	0	36.9204
PH1-GWB-2	51.7917	4.29167	36.9204
PH1-GWC-4	47.5	0	38.0227
GWC-1	47.5	0	36.9204

PH1-GWA-1	**107.333**	**59.8333**	**36.9204**
PH1-GWA-1A	47.5	0	36.9204
PH1-GWC-2	**107.333**	**59.8333**	**36.9204**
PH1-GWC-1	47.5	0	36.9204
PH1-GWC-3	**136**	**88.5**	**36.9204**
PH1-GWC-3A	**127.25**	**79.75**	**36.9204**

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-2	**149.25**	**101.75**	**42.0901**
PH1-GWB-1	47.5	0	42.0901
PH1-GWB-2	51.7917	4.29167	42.0901
PH1-GWC-4	47.5	0	43.3468
GWC-1	47.5	0	42.0901
PH1-GWA-1	**107.333**	**59.8333**	**42.0901**
PH1-GWA-1A	47.5	0	42.0901
PH1-GWC-2	**107.333**	**59.8333**	**42.0901**
PH1-GWC-1	47.5	0	42.0901
PH1-GWC-3	**136**	**88.5**	**42.0901**
PH1-GWC-3A	**127.25**	**79.75**	**42.0901**

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	6/13/2016	ND<1	58.5
	12/9/2016	ND<1	58.5
	6/14/2017	ND<1	58.5
	12/11/2017	ND<1	58.5
	6/18/2018	ND<1	58.5
	12/17/2018	ND<1	58.5
	6/13/2019	ND<1	58.5
	12/12/2019	ND<1	58.5
	6/25/2020	ND<1	58.5
	12/18/2020	ND<1	58.5
	6/15/2021	ND<1	58.5
	12/15/2021	ND<1	58.5
Rank Sum = 702			
Rank Mean = 58.5			
PH1-GWA-4	6/13/2016	ND<1	58.5
	12/7/2016	ND<1	58.5
	6/15/2017	ND<1	58.5
	12/12/2017	ND<1	58.5
	6/18/2018	ND<1	58.5
	12/18/2018	ND<1	58.5
	6/11/2019	ND<1	58.5
	12/9/2019	ND<1	58.5
	6/24/2020	ND<1	58.5
	12/15/2020	ND<1	58.5
	6/16/2021	ND<1	58.5
	12/14/2021	ND<1	58.5
Rank Sum = 702			
Rank Mean = 58.5			

Background Rank Sum = 1404
Background Rank Mean = 58.5

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/13/2016	ND<1	58.5
	12/7/2016	3.7	122
	6/15/2017	2.1	117
	12/13/2017	2.3	119
	6/18/2018	ND<1	58.5
	12/18/2018	ND<1	58.5
	6/11/2019	ND<1	58.5
	12/9/2019	2.4	120
	6/24/2020	ND<1	58.5
	12/15/2020	ND<1	58.5
	6/16/2021	ND<1	58.5

	12/14/2021	ND<1	58.5
Rank Sum = 946			
Rank Mean = 78.8333			
PH1-GWB-1	6/13/2016	ND<1	58.5
	12/7/2016	ND<1	58.5
	6/15/2017	ND<1	58.5
	12/12/2017	ND<1	58.5
	6/18/2018	ND<1	58.5
	12/17/2018	ND<1	58.5
	6/11/2019	ND<1	58.5
	12/10/2019	ND<1	58.5
	6/24/2020	ND<1	58.5
	12/17/2020	ND<1	58.5
	6/14/2021	ND<1	58.5
	12/13/2021	ND<1	58.5
Rank Sum = 702			
Rank Mean = 58.5			
PH1-GWB-2	6/13/2016	ND<1	58.5
	12/8/2016	ND<1	58.5
	6/15/2017	ND<1	58.5
	12/11/2017	ND<1	58.5
	6/19/2018	ND<1	58.5
	12/17/2018	ND<1	58.5
	6/12/2019	ND<1	58.5
	12/12/2019	ND<1	58.5
	6/24/2020	ND<1	58.5
	12/17/2020	ND<1	58.5
	6/16/2021	ND<1	58.5
	12/13/2021	ND<1	58.5
Rank Sum = 702			
Rank Mean = 58.5			
PH1-GWC-4	6/13/2016	ND<1	58.5
	12/8/2016	ND<1	58.5
	6/15/2017	ND<1	58.5
	12/11/2017	ND<1	58.5
	6/19/2018	ND<1	58.5
	12/19/2018	ND<1	58.5
	6/13/2019	ND<1	58.5
	6/22/2020	ND<1	58.5
	12/17/2020	ND<1	58.5
	6/16/2021	ND<1	58.5
	12/15/2021	ND<1	58.5
Rank Sum = 643.5			
Rank Mean = 58.5			
GWC-1	6/14/2016	ND<1	58.5
	12/8/2016	ND<1	58.5
	6/13/2017	ND<1	58.5
	12/13/2017	ND<1	58.5
	6/19/2018	ND<1	58.5
	12/17/2018	ND<1	58.5
	6/13/2019	ND<1	58.5
	12/10/2019	ND<1	58.5
	6/22/2020	ND<1	58.5

	12/16/2020	ND<1	58.5
	6/15/2021	ND<1	58.5
	12/15/2021	ND<1	58.5

Rank Sum = 702
Rank Mean = 58.5

PH1-GWA-1	6/14/2016	ND<1	58.5
	12/7/2016	ND<1	58.5
	6/13/2017	ND<1	58.5
	12/13/2017	ND<1	58.5
	6/19/2018	2.1	118
	12/18/2018	ND<1	58.5
	6/10/2019	ND<1	58.5
	12/9/2019	ND<1	58.5
	6/22/2020	ND<1	58.5
	12/15/2020	ND<1	58.5
	6/15/2021	ND<1	58.5
	12/13/2021	ND<1	58.5

Rank Sum = 761.5
Rank Mean = 63.4583

PH1-GWA-1A	6/14/2016	ND<1	58.5
	12/7/2016	ND<1	58.5
	6/12/2017	ND<1	58.5
	12/13/2017	ND<1	58.5
	6/19/2018	ND<1	58.5
	12/18/2018	ND<1	58.5
	6/10/2019	ND<1	58.5
	12/10/2019	ND<1	58.5
	6/22/2020	ND<1	58.5
	12/18/2020	ND<1	58.5
	6/15/2021	ND<1	58.5
	12/13/2021	ND<1	58.5

Rank Sum = 702
Rank Mean = 58.5

PH1-GWC-2	6/14/2016	4	125
	12/7/2016	3.9	124
	6/13/2017	6.7	133
	12/13/2017	5.1	128
	6/19/2018	ND<1	58.5
	12/18/2018	5.1	129
	6/10/2019	4.2	126
	12/10/2019	6.3	132
	6/22/2020	4.6	127
	12/17/2020	5.3	130
	6/17/2021	3.7	123
	12/14/2021	2.9	121

Rank Sum = 1456.5
Rank Mean = 121.375

PH1-GWC-1	6/15/2016	ND<1	58.5
	12/8/2016	ND<1	58.5
	6/15/2017	ND<1	58.5
	12/11/2017	ND<1	58.5
	6/19/2018	ND<1	58.5
	12/19/2018	ND<1	58.5

	6/13/2019	ND<1	58.5
	12/11/2019	ND<1	58.5
	6/22/2020	ND<1	58.5
	12/17/2020	ND<1	58.5
	6/16/2021	ND<1	58.5
	12/15/2021	ND<1	58.5

Rank Sum = 702
Rank Mean = 58.5

PH1-GWC-3	6/16/2016	8.4	138
	12/8/2016	12	153
	6/13/2017	11	149
	12/12/2017	13	154
	6/19/2018	11	150
	12/18/2018	10	147
	6/10/2019	11	151
	12/9/2019	13	155
	6/22/2020	9	144
	12/15/2020	9.1	145
	6/14/2021	9.3	146
	12/14/2021	8.8	141

Rank Sum = 1773
Rank Mean = 147.75

PH1-GWC-3A	6/16/2016	6.7	134
	12/8/2016	8.6	139
	6/13/2017	8.9	143
	12/12/2017	10	148
	6/19/2018	11	152
	12/18/2018	8.7	140
	6/10/2019	8.8	142
	12/9/2019	7.4	136
	6/26/2020	ND<1	58.5
	12/15/2020	5.7	131
	6/14/2021	8.1	137
	12/14/2021	7.2	135

Rank Sum = 1595.5
Rank Mean = 132.958

Calculation Results:

Kruskal-Wallis H Statistic = 77.3559
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 133.176
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
77.3559 > 19.6752 indicating a significant group difference at 5% significance level
133.176 > 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 58.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	78.8333	20.3333	36.9204
PH1-GWB-1	58.5	0	36.9204
PH1-GWB-2	58.5	0	36.9204
PH1-GWC-4	58.5	0	38.0227
GWC-1	58.5	0	36.9204

PH1-GWA-1	63.4583	4.95833	36.9204
PH1-GWA-1A	58.5	0	36.9204
PH1-GWC-2	**121.375**	**62.875**	**36.9204**
PH1-GWC-1	58.5	0	36.9204
PH1-GWC-3	**147.75**	**89.25**	**36.9204**
PH1-GWC-3A	**132.958**	**74.4583**	**36.9204**

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 58.5

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	78.8333	20.3333	42.0901
PH1-GWB-1	58.5	0	42.0901
PH1-GWB-2	58.5	0	42.0901
PH1-GWC-4	58.5	0	43.3468
GWC-1	58.5	0	42.0901
PH1-GWA-1	63.4583	4.95833	42.0901
PH1-GWA-1A	58.5	0	42.0901
PH1-GWC-2	**121.375**	**62.875**	**42.0901**
PH1-GWC-1	58.5	0	42.0901
PH1-GWC-3	**147.75**	**89.25**	**42.0901**
PH1-GWC-3A	**132.958**	**74.4583**	**42.0901**

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	6/13/2016	ND<1	55
	12/9/2016	ND<1	55
	6/14/2017	ND<1	55
	12/11/2017	ND<1	55
	6/18/2018	ND<1	55
	12/17/2018	ND<1	55
	6/13/2019	ND<1	55
	12/12/2019	ND<1	55
	6/25/2020	ND<1	55
	12/18/2020	ND<1	55
	6/15/2021	ND<1	55
	12/15/2021	ND<1	55
Rank Sum = 660			
Rank Mean = 55			
PH1-GWA-4	6/13/2016	ND<1	55
	12/7/2016	ND<1	55
	6/15/2017	ND<1	55
	12/12/2017	ND<1	55
	6/18/2018	ND<1	55
	12/18/2018	ND<1	55
	6/11/2019	ND<1	55
	12/9/2019	ND<1	55
	6/24/2020	ND<1	55
	12/15/2020	ND<1	55
	6/16/2021	ND<1	55
	12/14/2021	ND<1	55
Rank Sum = 660			
Rank Mean = 55			

Background Rank Sum = 1320

Background Rank Mean = 55

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-2	6/13/2016	3.8	126
	12/7/2016	7.1	144
	6/15/2017	4.1	128
	12/13/2017	5.8	134
	6/18/2018	4.2	129
	12/18/2018	4	127
	6/11/2019	2.1	113
	12/9/2019	7.3	147
	6/24/2020	2.4	116
	12/15/2020	2.5	119
	6/16/2021	2.4	117

	12/14/2021	2	110

Rank Sum = 1510
Rank Mean = 125.833

PH1-GWB-1	6/13/2016	ND<1	55
	12/7/2016	ND<1	55
	6/15/2017	ND<1	55
	12/12/2017	ND<1	55
	6/18/2018	ND<1	55
	12/17/2018	ND<1	55
	6/11/2019	ND<1	55
	12/10/2019	ND<1	55
	6/24/2020	ND<1	55
	12/17/2020	ND<1	55
	6/14/2021	ND<1	55
	12/13/2021	ND<1	55

Rank Sum = 660
Rank Mean = 55

PH1-GWB-2	6/13/2016	ND<1	55
	12/8/2016	ND<1	55
	6/15/2017	ND<1	55
	12/11/2017	ND<1	55
	6/19/2018	ND<1	55
	12/17/2018	ND<1	55
	6/12/2019	ND<1	55
	12/12/2019	ND<1	55
	6/24/2020	ND<1	55
	12/17/2020	ND<1	55
	6/16/2021	ND<1	55
	12/13/2021	ND<1	55

Rank Sum = 660
Rank Mean = 55

PH1-GWC-4	6/13/2016	ND<1	55
	12/8/2016	ND<1	55
	6/15/2017	ND<1	55
	12/11/2017	ND<1	55
	6/19/2018	ND<1	55
	12/19/2018	ND<1	55
	6/13/2019	ND<1	55
	6/22/2020	ND<1	55
	12/17/2020	ND<1	55
	6/16/2021	ND<1	55
	12/15/2021	ND<1	55

Rank Sum = 605
Rank Mean = 55

GWC-1	6/14/2016	ND<1	55
	12/8/2016	ND<1	55
	6/13/2017	ND<1	55
	12/13/2017	ND<1	55
	6/19/2018	ND<1	55
	12/17/2018	ND<1	55
	6/13/2019	ND<1	55
	12/10/2019	ND<1	55
	6/22/2020	ND<1	55

	12/16/2020	ND<1	55
	6/15/2021	ND<1	55
	12/15/2021	ND<1	55

Rank Sum = 660
Rank Mean = 55

PH1-GWA-1	6/14/2016	ND<1	55
	12/7/2016	2.2	115
	6/13/2017	ND<1	55
	12/13/2017	ND<1	55
	6/19/2018	ND<1	55
	12/18/2018	ND<1	55
	6/10/2019	ND<1	55
	12/9/2019	3.1	125
	6/22/2020	ND<1	55
	12/15/2020	ND<1	55
	6/15/2021	ND<1	55
	12/13/2021	ND<1	55

Rank Sum = 790
Rank Mean = 65.8333

PH1-GWA-1A	6/14/2016	ND<1	55
	12/7/2016	ND<1	55
	6/12/2017	ND<1	55
	12/13/2017	ND<1	55
	6/19/2018	ND<1	55
	12/18/2018	ND<1	55
	6/10/2019	ND<1	55
	12/10/2019	ND<1	55
	6/22/2020	ND<1	55
	12/18/2020	ND<1	55
	6/15/2021	ND<1	55
	12/13/2021	ND<1	55

Rank Sum = 660
Rank Mean = 55

PH1-GWC-2	6/14/2016	ND<1	55
	12/7/2016	ND<1	55
	6/13/2017	2.4	118
	12/13/2017	ND<1	55
	6/19/2018	ND<1	55
	12/18/2018	2	111
	6/10/2019	2	112
	12/10/2019	2.6	121
	6/22/2020	2.1	114
	12/17/2020	2.5	120
	6/17/2021	2.7	122
	12/14/2021	3	124

Rank Sum = 1162
Rank Mean = 96.8333

PH1-GWC-1	6/15/2016	ND<1	55
	12/8/2016	ND<1	55
	6/15/2017	ND<1	55
	12/11/2017	ND<1	55
	6/19/2018	ND<1	55
	12/19/2018	ND<1	55

	6/13/2019	ND<1	55
	12/11/2019	ND<1	55
	6/22/2020	ND<1	55
	12/17/2020	ND<1	55
	6/16/2021	ND<1	55
	12/15/2021	ND<1	55

Rank Sum = 660
Rank Mean = 55

PH1-GWC-3	6/16/2016	5.6	131
	12/8/2016	7.6	150
	6/13/2017	7	143
	12/12/2017	8.4	153
	6/19/2018	6.9	142
	12/18/2018	6.8	139
	6/10/2019	7.4	148
	12/9/2019	8.7	155
	6/22/2020	7.1	145
	12/15/2020	7.6	151
	6/14/2021	7.5	149
	12/14/2021	7.1	146

Rank Sum = 1752
Rank Mean = 146

PH1-GWC-3A	6/16/2016	4.6	130
	12/8/2016	6.8	140
	6/13/2017	6	136
	12/12/2017	6.6	138
	6/19/2018	6.8	141
	12/18/2018	5.8	135
	6/10/2019	5.7	132
	12/9/2019	8.4	154
	6/26/2020	2.8	123
	12/15/2020	8.1	152
	6/14/2021	6.1	137
	12/14/2021	5.7	133

Rank Sum = 1651
Rank Mean = 137.583

Calculation Results:

Kruskal-Wallis H Statistic = 90.2402
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 138.352
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
90.2402 > 19.6752 indicating a significant group difference at 5% significance level
138.352 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**125.833**	**70.8333**	**36.9204**
PH1-GWB-1	55	0	36.9204
PH1-GWB-2	55	0	36.9204
PH1-GWC-4	55	0	38.0227
GWC-1	55	0	36.9204

PH1-GWA-1	65.8333	10.8333	36.9204
PH1-GWA-1A	55	0	36.9204
PH1-GWC-2	**96.8333**	**41.8333**	**36.9204**
PH1-GWC-1	55	0	36.9204
PH1-GWC-3	**146**	**91**	**36.9204**
PH1-GWC-3A	**137.583**	**82.5833**	**36.9204**

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

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-2	**125.833**	**70.8333**	**42.0901**
PH1-GWB-1	55	0	42.0901
PH1-GWB-2	55	0	42.0901
PH1-GWC-4	55	0	43.3468
GWC-1	55	0	42.0901
PH1-GWA-1	65.8333	10.8333	42.0901
PH1-GWA-1A	55	0	42.0901
PH1-GWC-2	96.8333	41.8333	42.0901
PH1-GWC-1	55	0	42.0901
PH1-GWC-3	**146**	**91**	**42.0901**
PH1-GWC-3A	**137.583**	**82.5833**	**42.0901**

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/13/2016	ND<10	20.5
	12/9/2016	20	41
	6/14/2017	ND<10	20.5
	12/11/2017	ND<10	20.5
	6/18/2018	ND<10	20.5
	12/17/2018	ND<10	20.5
	6/13/2019	ND<10	20.5
	12/12/2019	ND<10	20.5
	6/25/2020	ND<10	20.5
	12/18/2020	ND<10	20.5
	6/15/2021	ND<10	20.5
	12/15/2021	ND<10	20.5
Rank Sum = 266.5			
Rank Mean = 22.2083			
PH1-GWA-4	6/14/2016	ND<10	20.5
	12/8/2016	ND<10	20.5
	6/16/2017	ND<10	20.5
	12/13/2017	37	99
	6/19/2018	ND<10	20.5
	12/19/2018	ND<10	20.5
	6/12/2019	ND<10	20.5
	12/10/2019	ND<10	20.5
	6/25/2020	ND<10	20.5
	12/16/2020	ND<10	20.5
	6/17/2021	ND<10	20.5
	12/15/2021	ND<10	20.5
Rank Sum = 324.5			
Rank Mean = 27.0417			

Background Rank Sum = 591
Background Rank Mean = 24.625

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1A	6/14/2016	37	100
	12/7/2016	21	45
	6/12/2017	24	56
	12/13/2017	27	74
	6/20/2018	25	66
	12/19/2018	27	75
	6/11/2019	24	57
	12/10/2019	23.4	53
	6/22/2020	21.7	48
	12/18/2020	27.4	79
	6/16/2021	24.8	64

	12/14/2021	22.6	50
Rank Sum = 767			
Rank Mean = 63.9167			
PH1-GWA-2	6/14/2016	85	143
	12/8/2016	110	153
	6/16/2017	80	133
	12/14/2017	80	134
	6/19/2018	61	122
	12/19/2018	81	136
	6/12/2019	84	139
	12/10/2019	84.2	142
	6/25/2020	64.6	125
	12/16/2020	65.5	126
	6/17/2021	71.7	130
	12/15/2021	71.6	129
Rank Sum = 1612			
Rank Mean = 134.333			
PH1-GWB-1	6/14/2016	84	140
	12/8/2016	75	131
	6/16/2017	52	115
	12/13/2017	54	117
	6/19/2018	62	123
	12/18/2018	53	116
	6/12/2019	82	138
	12/11/2019	67	127
	6/25/2020	79.3	132
	12/18/2020	50.5	113
	6/15/2021	63.1	124
	12/14/2021	56.8	121
Rank Sum = 1497			
Rank Mean = 124.75			
PH1-GWB-2	6/14/2016	28	81
	12/9/2016	26	70
	6/16/2017	ND<10	20.5
	12/12/2017	ND<10	20.5
	6/20/2018	ND<10	20.5
	12/18/2018	22	49
	6/13/2019	ND<10	20.5
	12/13/2019	ND<10	20.5
	6/25/2020	ND<10	20.5
	12/18/2020	ND<10	20.5
	6/17/2021	ND<10	20.5
	12/14/2021	ND<10	20.5
Rank Sum = 384.5			
Rank Mean = 32.0417			
PH1-GWC-2	6/14/2016	ND<10	20.5
	12/7/2016	ND<10	20.5
	6/14/2017	51	114
	12/13/2017	ND<10	20.5
	6/19/2018	ND<10	20.5
	12/18/2018	26	71
	6/10/2019	39	102
	12/10/2019	ND<10	20.5

	6/22/2020	33.6	96
	12/17/2020	ND<10	20.5
	6/17/2021	20.6	44
	12/17/2021	ND<10	20.5

Rank Sum = 570.5
Rank Mean = 47.5417

PH1-GWC-4	6/14/2016	41	104
	12/9/2016	80	135
	6/16/2017	42	106
	12/12/2017	54	118
	6/20/2018	34	97
	12/20/2018	310	155
	6/13/2019	32	93
	6/23/2020	25.2	67
	12/18/2020	56.4	120
	6/17/2021	33	95
	12/16/2021	41.3	105

Rank Sum = 1195
Rank Mean = 108.636

GWC-1	6/15/2016	92	147
	12/9/2016	100	152
	6/14/2017	92	148
	12/14/2017	88	146
	6/20/2018	94	150
	12/18/2018	150	154
	6/13/2019	93	149
	12/11/2019	85.2	144
	6/23/2020	95.3	151
	12/17/2020	81.1	137
	6/16/2021	86.1	145
	12/16/2021	84	141

Rank Sum = 1764
Rank Mean = 147

PH1-GWA-1	6/15/2016	21	46
	12/8/2016	ND<10	20.5
	6/14/2017	21	47
	12/14/2017	20	42
	6/20/2018	34	98
	12/19/2018	24	58
	6/11/2019	24	59
	12/10/2019	20.3	43
	6/23/2020	27.7	80
	12/16/2020	ND<10	20.5
	6/16/2021	28.7	84
	12/14/2021	22.8	51

Rank Sum = 649
Rank Mean = 54.0833

PH1-GWC-1	6/16/2016	54	119
	12/9/2016	70	128
	6/16/2017	40	103
	12/12/2017	38	101
	6/20/2018	42	107
	12/20/2018	47	111

	6/13/2019	50	112
	12/12/2019	43.7	110
	6/23/2020	42.8	109
	12/18/2020	32.1	94
	6/17/2021	42.1	108
	12/16/2021	30.6	92

Rank Sum = 1294
Rank Mean = 107.833

PH1-GWC-3	6/17/2016	24	60
	12/9/2016	28	82
	6/14/2017	26	72
	12/13/2017	27	76
	6/20/2018	23	52
	12/19/2018	27	77
	6/11/2019	30	89
	12/10/2019	24.7	63
	6/23/2020	23.6	54
	12/16/2020	25.6	68
	6/15/2021	24.3	62
	12/15/2021	28.8	85

Rank Sum = 840
Rank Mean = 70

PH1-GWC-3A	6/17/2016	29	86
	12/9/2016	29	87
	6/14/2017	29	88
	12/13/2017	27	78
	6/28/2018	26	73
	12/19/2018	24	61
	6/11/2019	30	90
	12/10/2019	24.9	65
	6/23/2020	23.9	55
	12/16/2020	25.9	69
	6/15/2021	30.5	91
	12/15/2021	28.5	83

Rank Sum = 926
Rank Mean = 77.1667

Calculation Results:

Kruskal-Wallis H Statistic = 127.701
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 129.933
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
127.701 > 19.6752 indicating a significant group difference at 5% significance level
129.933 > 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 24.625

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	**63.9167**	**39.2917**	**36.9204**
PH1-GWA-2	**134.333**	**109.708**	**36.9204**
PH1-GWB-1	**124.75**	**100.125**	**36.9204**
PH1-GWB-2	32.0417	7.41667	36.9204
PH1-GWC-2	47.5417	22.9167	36.9204

PH1-GWC-4	**108.636**	**84.0114**	**38.0227**
GWC-1	**147**	**122.375**	**36.9204**
PH1-GWA-1	54.0833	29.4583	36.9204
PH1-GWC-1	**107.833**	**83.2083**	**36.9204**
PH1-GWC-3	**70**	**45.375**	**36.9204**
PH1-GWC-3A	**77.1667**	**52.5417**	**36.9204**

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 24.625

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	63.9167	39.2917	42.0901
PH1-GWA-2	**134.333**	**109.708**	**42.0901**
PH1-GWB-1	**124.75**	**100.125**	**42.0901**
PH1-GWB-2	32.0417	7.41667	42.0901
PH1-GWC-2	47.5417	22.9167	42.0901
PH1-GWC-4	**108.636**	**84.0114**	**43.3468**
GWC-1	**147**	**122.375**	**42.0901**
PH1-GWA-1	54.0833	29.4583	42.0901
PH1-GWC-1	**107.833**	**83.2083**	**42.0901**
PH1-GWC-3	**70**	**45.375**	**42.0901**
PH1-GWC-3A	**77.1667**	**52.5417**	**42.0901**

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/13/2016	ND<5	75
	12/9/2016	ND<5	75
	6/14/2017	ND<5	75
	12/11/2017	ND<5	75
	6/18/2018	ND<5	75
	12/17/2018	ND<5	75
	6/13/2019	ND<5	75
	12/12/2019	ND<5	75
	6/25/2020	ND<5	75
	12/18/2020	ND<5	75
	6/15/2021	ND<5	75
	12/15/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWA-4	6/14/2016	ND<5	75
	12/8/2016	ND<5	75
	6/16/2017	ND<5	75
	12/13/2017	ND<5	75
	6/19/2018	ND<5	75
	12/19/2018	ND<5	75
	6/12/2019	ND<5	75
	12/10/2019	ND<5	75
	6/25/2020	ND<5	75
	12/16/2020	ND<5	75
	6/17/2021	ND<5	75
	12/15/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

Background Rank Sum = 1800
Background Rank Mean = 75

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1A	6/14/2016	28	153
	12/7/2016	ND<5	75
	6/12/2017	ND<5	75
	12/13/2017	ND<5	75
	6/20/2018	ND<5	75
	12/19/2018	ND<5	75
	6/11/2019	11	150
	12/10/2019	ND<5	75
	6/22/2020	ND<5	75
	12/18/2020	ND<5	75
	6/16/2021	ND<5	75

	12/14/2021	ND<5	75

Rank Sum = 1053
Rank Mean = 87.75

PH1-GWA-2	6/14/2016	ND<5	75
	12/8/2016	ND<5	75
	6/16/2017	ND<5	75
	12/14/2017	ND<5	75
	6/19/2018	ND<5	75
	12/19/2018	ND<5	75
	6/12/2019	ND<5	75
	12/10/2019	ND<5	75
	6/25/2020	ND<5	75
	12/16/2020	ND<5	75
	6/17/2021	ND<5	75
	12/15/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWB-1	6/14/2016	ND<5	75
	12/8/2016	ND<5	75
	6/16/2017	ND<5	75
	12/13/2017	ND<5	75
	6/19/2018	ND<5	75
	12/18/2018	ND<5	75
	6/12/2019	ND<5	75
	12/11/2019	ND<5	75
	6/25/2020	ND<5	75
	12/18/2020	ND<5	75
	6/15/2021	ND<5	75
	12/14/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWB-2	6/14/2016	ND<5	75
	12/9/2016	ND<5	75
	6/16/2017	ND<5	75
	12/12/2017	ND<5	75
	6/20/2018	ND<5	75
	12/18/2018	ND<5	75
	6/13/2019	ND<5	75
	12/13/2019	ND<5	75
	6/25/2020	ND<5	75
	12/18/2020	ND<5	75
	6/17/2021	ND<5	75
	12/14/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWC-2	6/14/2016	ND<5	75
	12/7/2016	ND<5	75
	6/14/2017	ND<5	75
	12/13/2017	ND<5	75
	6/19/2018	12	151
	12/18/2018	ND<5	75
	6/10/2019	69	155
	12/10/2019	ND<5	75

	6/22/2020	27.2	152
	12/17/2020	ND<5	75
	6/17/2021	ND<5	75
	12/17/2021	ND<5	75

Rank Sum = 1133
Rank Mean = 94.4167

PH1-GWC-4	6/14/2016	ND<5	75
	12/9/2016	ND<5	75
	6/16/2017	ND<5	75
	12/12/2017	ND<5	75
	6/20/2018	ND<5	75
	12/20/2018	49	154
	6/13/2019	ND<5	75
	6/23/2020	ND<5	75
	12/18/2020	ND<5	75
	6/17/2021	ND<5	75
	12/16/2021	ND<5	75

Rank Sum = 904
Rank Mean = 82.1818

GWC-1	6/15/2016	ND<5	75
	12/9/2016	ND<5	75
	6/14/2017	ND<5	75
	12/14/2017	ND<5	75
	6/20/2018	ND<5	75
	12/18/2018	ND<5	75
	6/13/2019	ND<5	75
	12/11/2019	ND<5	75
	6/23/2020	ND<5	75
	12/17/2020	ND<5	75
	6/16/2021	ND<5	75
	12/16/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWA-1	6/15/2016	ND<5	75
	12/8/2016	ND<5	75
	6/14/2017	ND<5	75
	12/14/2017	ND<5	75
	6/20/2018	ND<5	75
	12/19/2018	ND<5	75
	6/11/2019	ND<5	75
	12/10/2019	ND<5	75
	6/23/2020	ND<5	75
	12/16/2020	ND<5	75
	6/16/2021	ND<5	75
	12/14/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWC-1	6/16/2016	ND<5	75
	12/9/2016	ND<5	75
	6/16/2017	ND<5	75
	12/12/2017	ND<5	75
	6/20/2018	ND<5	75
	12/20/2018	ND<5	75

	6/13/2019	ND<5	75
	12/12/2019	ND<5	75
	6/23/2020	ND<5	75
	12/18/2020	ND<5	75
	6/17/2021	ND<5	75
	12/16/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWC-3	6/17/2016	ND<5	75
	12/9/2016	ND<5	75
	6/14/2017	ND<5	75
	12/13/2017	ND<5	75
	6/20/2018	ND<5	75
	12/19/2018	ND<5	75
	6/11/2019	ND<5	75
	12/10/2019	ND<5	75
	6/23/2020	ND<5	75
	12/16/2020	ND<5	75
	6/15/2021	ND<5	75
	12/15/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

PH1-GWC-3A	6/17/2016	ND<5	75
	12/9/2016	ND<5	75
	6/14/2017	ND<5	75
	12/13/2017	ND<5	75
	6/28/2018	ND<5	75
	12/19/2018	ND<5	75
	6/11/2019	ND<5	75
	12/10/2019	ND<5	75
	6/23/2020	ND<5	75
	12/16/2020	ND<5	75
	6/15/2021	ND<5	75
	12/15/2021	ND<5	75

Rank Sum = 900
Rank Mean = 75

Calculation Results:

Kruskal-Wallis H Statistic = 2.80258
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 25.0914
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
2.80258 < 19.6752 indicating no significant group difference at 5% significance level
25.0914 > 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 75

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	87.75	12.75	36.9204
PH1-GWA-2	75	0	36.9204
PH1-GWB-1	75	0	36.9204
PH1-GWB-2	75	0	36.9204
PH1-GWC-2	94.4167	19.4167	36.9204

PH1-GWC-4	82.1818	7.18182	38.0227
GWC-1	75	0	36.9204
PH1-GWA-1	75	0	36.9204
PH1-GWC-1	75	0	36.9204
PH1-GWC-3	75	0	36.9204
PH1-GWC-3A	75	0	36.9204

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 75

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	87.75	12.75	42.0901
PH1-GWA-2	75	0	42.0901
PH1-GWB-1	75	0	42.0901
PH1-GWB-2	75	0	42.0901
PH1-GWC-2	94.4167	19.4167	42.0901
PH1-GWC-4	82.1818	7.18182	43.3468
GWC-1	75	0	42.0901
PH1-GWA-1	75	0	42.0901
PH1-GWC-1	75	0	42.0901
PH1-GWC-3	75	0	42.0901
PH1-GWC-3A	75	0	42.0901

Kruskal-Wallis Non-Parametric Test

Parameter: 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	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
	12/18/2020	ND<20	72
	6/15/2021	ND<20	72
	12/15/2021	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWA-4	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
	12/16/2020	ND<20	72
	6/17/2021	ND<20	72
	12/15/2021	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	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
	6/22/2020	ND<20	72
	12/18/2020	ND<20	72
	6/16/2021	ND<20	72

	12/14/2021	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWA-2	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
	12/16/2020	ND<20	72
	6/17/2021	ND<20	72
	12/15/2021	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWB-1	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
	12/18/2020	ND<20	72
	6/15/2021	ND<20	72
	12/14/2021	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWB-2	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
	12/18/2018	ND<20	72
	6/13/2019	ND<20	72
	12/13/2019	ND<20	72
	6/25/2020	ND<20	72
	12/18/2020	ND<20	72
	6/17/2021	ND<20	72
	12/14/2021	ND<20	72
Rank Sum = 864			
Rank Mean = 72			
PH1-GWC-2	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
	12/18/2018	ND<20	72
	6/10/2019	ND<20	72
	12/10/2019	ND<20	72

	6/22/2020	ND<20	72
	12/17/2020	ND<20	72
	6/17/2021	ND<20	72
	12/17/2021	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-4	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
	12/18/2020	ND<20	72
	6/17/2021	ND<20	72
	12/16/2021	ND<20	72

Rank Sum = 792
Rank Mean = 72

GWC-1	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
	12/17/2020	ND<20	72
	6/16/2021	ND<20	72
	12/16/2021	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWA-1	6/15/2016	110	154
	12/8/2016	94	151
	6/14/2017	100	153
	12/14/2017	76	145
	6/20/2018	75	144
	12/19/2018	82	147
	6/11/2019	91	150
	12/10/2019	90.1	149
	6/23/2020	76.6	146
	12/16/2020	95.6	152
	6/16/2021	83.5	148
	12/14/2021	111	155

Rank Sum = 1794
Rank Mean = 149.5

PH1-GWC-1	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
	12/18/2020	ND<20	72
	6/17/2021	ND<20	72
	12/16/2021	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-3	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
	12/16/2020	ND<20	72
	6/15/2021	ND<20	72
	12/15/2021	ND<20	72

Rank Sum = 864
Rank Mean = 72

PH1-GWC-3A	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
	12/16/2020	ND<20	72
	6/15/2021	ND<20	72
	12/15/2021	ND<20	72

Rank Sum = 864
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-GWA-2	72	0	36.9204
PH1-GWB-1	72	0	36.9204
PH1-GWB-2	72	0	36.9204
PH1-GWC-2	72	0	36.9204

PH1-GWC-4	72	0	38.0227
GWC-1	72	0	36.9204
PH1-GWA-1	**149.5**	**77.5**	**36.9204**
PH1-GWC-1	72	0	36.9204
PH1-GWC-3	72	0	36.9204
PH1-GWC-3A	72	0	36.9204

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-GWA-2	72	0	42.0901
PH1-GWB-1	72	0	42.0901
PH1-GWB-2	72	0	42.0901
PH1-GWC-2	72	0	42.0901
PH1-GWC-4	72	0	43.3468
GWC-1	72	0	42.0901
PH1-GWA-1	**149.5**	**77.5**	**42.0901**
PH1-GWC-1	72	0	42.0901
PH1-GWC-3	72	0	42.0901
PH1-GWC-3A	72	0	42.0901

Kruskal-Wallis Non-Parametric Test

Parameter: 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	6/13/2016	ND<10	56.5
	12/9/2016	ND<10	56.5
	6/14/2017	ND<10	56.5
	12/11/2017	ND<10	56.5
	6/18/2018	ND<10	56.5
	12/17/2018	ND<10	56.5
	6/13/2019	ND<10	56.5
	12/12/2019	ND<10	56.5
	6/25/2020	ND<10	56.5
	12/18/2020	ND<10	56.5
	6/15/2021	ND<10	56.5
	12/15/2021	ND<10	56.5

Rank Sum = 678

Rank Mean = 56.5

PH1-GWA-4	6/14/2016	ND<10	56.5
	12/8/2016	ND<10	56.5
	6/16/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/19/2018	ND<10	56.5
	12/19/2018	ND<10	56.5
	6/12/2019	ND<10	56.5
	12/10/2019	48.9	149
	6/25/2020	ND<10	56.5
	12/16/2020	ND<10	56.5
	6/17/2021	ND<10	56.5
	12/15/2021	ND<10	56.5

Rank Sum = 770.5

Rank Mean = 64.2083

Background Rank Sum = 1448.5

Background Rank Mean = 60.3542

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1A	6/14/2016	ND<10	56.5
	12/7/2016	ND<10	56.5
	6/12/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/20/2018	ND<10	56.5
	12/19/2018	ND<10	56.5
	6/11/2019	ND<10	56.5
	12/10/2019	ND<10	56.5
	6/22/2020	ND<10	56.5
	12/18/2020	ND<10	56.5
	6/16/2021	ND<10	56.5

	12/14/2021	ND<10	56.5

Rank Sum = 678
Rank Mean = 56.5

PH1-GWA-2	6/14/2016	56	153
	12/8/2016	ND<10	56.5
	6/16/2017	ND<10	56.5
	12/14/2017	ND<10	56.5
	6/19/2018	ND<10	56.5
	12/19/2018	29	133
	6/12/2019	ND<10	56.5
	12/10/2019	ND<10	56.5
	6/25/2020	ND<10	56.5
	12/16/2020	ND<10	56.5
	6/17/2021	ND<10	56.5
	12/15/2021	ND<10	56.5

Rank Sum = 851
Rank Mean = 70.9167

PH1-GWB-1	6/14/2016	ND<10	56.5
	12/8/2016	ND<10	56.5
	6/16/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/19/2018	39	145
	12/18/2018	ND<10	56.5
	6/12/2019	22	122
	12/11/2019	38.2	143
	6/25/2020	26.8	129
	12/18/2020	ND<10	56.5
	6/15/2021	ND<10	56.5
	12/14/2021	ND<10	56.5

Rank Sum = 991
Rank Mean = 82.5833

PH1-GWB-2	6/14/2016	59	154
	12/9/2016	31	134
	6/16/2017	36	141
	12/12/2017	25	125
	6/20/2018	31	135
	12/18/2018	28	131
	6/13/2019	33	139
	12/13/2019	38.3	144
	6/25/2020	25.4	126
	12/18/2020	21.6	120
	6/17/2021	26.3	128
	12/14/2021	23.8	124

Rank Sum = 1601
Rank Mean = 133.417

PH1-GWC-2	6/14/2016	ND<10	56.5
	12/7/2016	ND<10	56.5
	6/14/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/19/2018	20	113
	12/18/2018	ND<10	56.5
	6/10/2019	26	127
	12/10/2019	ND<10	56.5

	6/22/2020	ND<10	56.5
	12/17/2020	ND<10	56.5
	6/17/2021	ND<10	56.5
	12/17/2021	ND<10	56.5

Rank Sum = 805
Rank Mean = 67.0833

PH1-GWC-4	6/14/2016	ND<10	56.5
	12/9/2016	21	117
	6/16/2017	20	114
	12/12/2017	28	132
	6/20/2018	ND<10	56.5
	12/20/2018	120	155
	6/13/2019	20	115
	6/23/2020	ND<10	56.5
	12/18/2020	ND<10	56.5
	6/17/2021	ND<10	56.5
	12/16/2021	21.7	121

Rank Sum = 1036.5
Rank Mean = 94.2273

GWC-1	6/15/2016	ND<10	56.5
	12/9/2016	ND<10	56.5
	6/14/2017	ND<10	56.5
	12/14/2017	ND<10	56.5
	6/20/2018	20	116
	12/18/2018	ND<10	56.5
	6/13/2019	ND<10	56.5
	12/11/2019	27.1	130
	6/23/2020	55.4	152
	12/17/2020	ND<10	56.5
	6/16/2021	ND<10	56.5
	12/16/2021	ND<10	56.5

Rank Sum = 906.5
Rank Mean = 75.5417

PH1-GWA-1	6/15/2016	21	118
	12/8/2016	ND<10	56.5
	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	137
	6/23/2020	ND<10	56.5
	12/16/2020	ND<10	56.5
	6/16/2021	ND<10	56.5
	12/14/2021	31	136

Rank Sum = 1351
Rank Mean = 112.583

PH1-GWC-1	6/16/2016	ND<10	56.5
	12/9/2016	ND<10	56.5
	6/16/2017	ND<10	56.5
	12/12/2017	ND<10	56.5
	6/20/2018	ND<10	56.5
	12/20/2018	ND<10	56.5

	6/13/2019	ND<10	56.5
	12/12/2019	ND<10	56.5
	6/23/2020	32.5	138
	12/18/2020	ND<10	56.5
	6/17/2021	ND<10	56.5
	12/16/2021	ND<10	56.5

Rank Sum = 759.5
Rank Mean = 63.2917

PH1-GWC-3	6/17/2016	ND<10	56.5
	12/9/2016	ND<10	56.5
	6/14/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/20/2018	ND<10	56.5
	12/19/2018	ND<10	56.5
	6/11/2019	ND<10	56.5
	12/10/2019	ND<10	56.5
	6/23/2020	ND<10	56.5
	12/16/2020	ND<10	56.5
	6/15/2021	ND<10	56.5
	12/15/2021	ND<10	56.5

Rank Sum = 678
Rank Mean = 56.5

PH1-GWC-3A	6/17/2016	ND<10	56.5
	12/9/2016	ND<10	56.5
	6/14/2017	ND<10	56.5
	12/13/2017	ND<10	56.5
	6/28/2018	21	119
	12/19/2018	ND<10	56.5
	6/11/2019	ND<10	56.5
	12/10/2019	ND<10	56.5
	6/23/2020	36.9	142
	12/16/2020	ND<10	56.5
	6/15/2021	23.6	123
	12/15/2021	43.6	148

Rank Sum = 984
Rank Mean = 82

Calculation Results:

Kruskal-Wallis H Statistic = 38.6166
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 62.011
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
38.6166 > 19.6752 indicating a significant group difference at 5% significance level
62.011 > 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 60.3542

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	56.5	-3.85417	36.9204
PH1-GWA-2	70.9167	10.5625	36.9204
PH1-GWB-1	82.5833	22.2292	36.9204
PH1-GWB-2	**133.417**	**73.0625**	**36.9204**
PH1-GWC-2	67.0833	6.72917	36.9204

PH1-GWC-4	94.2273	33.8731	38.0227
GWC-1	75.5417	15.1875	36.9204
PH1-GWA-1	**112.583**	**52.2292**	**36.9204**
PH1-GWC-1	63.2917	2.9375	36.9204
PH1-GWC-3	56.5	-3.85417	36.9204
PH1-GWC-3A	82	21.6458	36.9204

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 60.3542

Well	Mean Rank	Dif from Bkg	Critical Value
PH1-GWA-1A	56.5	-3.85417	42.0901
PH1-GWA-2	70.9167	10.5625	42.0901
PH1-GWB-1	82.5833	22.2292	42.0901
PH1-GWB-2	**133.417**	**73.0625**	**42.0901**
PH1-GWC-2	67.0833	6.72917	42.0901
PH1-GWC-4	94.2273	33.8731	43.3468
GWC-1	75.5417	15.1875	42.0901
PH1-GWA-1	**112.583**	**52.2292**	**42.0901**
PH1-GWC-1	63.2917	2.9375	42.0901
PH1-GWC-3	56.5	-3.85417	42.0901
PH1-GWC-3A	82	21.6458	42.0901

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-3	FALSE	1%
1,1-Dichloroethane	GWC-17	FALSE	1%
1,1-Dichloroethane	GWC-18	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWA-1A	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-2	FALSE	1%
1,1-Dichloroethane	GWC-3	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWC-13	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-19R	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-7	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-16A	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-4A	FALSE	1%
1,1-Dichloroethane	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWA-1A	FALSE	0.16%
1,1-Dichloroethane	GWC-10	FALSE	0.16%

Notes:
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4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
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-2	FALSE	0.16%
1,1-Dichloroethane	GWC-3	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWC-13	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-19R	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-7	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-16A	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
1,1-Dichloroethane	GWC-4A	FALSE	0.16%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWA-1A	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-2	FALSE	1%
Benzene	GWC-3	FALSE	1%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWC-13	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-15	TRUE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-23	FALSE	1%
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWC-4	FALSE	1%
Benzene	GWC-4A	FALSE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-17	FALSE	0.16%
Benzene	GWC-18	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWA-1A	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-2	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWC-13	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-19R	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-8	FALSE	0.16%
Benzene	GWC-8A	TRUE	0.16%
Benzene	GWC-8R	FALSE	0.16%
Benzene	GWC-16A	FALSE	0.16%
Benzene	GWC-4	FALSE	0.16%
Benzene	GWC-4A	FALSE	0.16%
Chlorobenzene	GWA-3	FALSE	1%
Chlorobenzene	GWC-17	FALSE	1%
Chlorobenzene	GWC-18	FALSE	1%
Chlorobenzene	GWC-24	FALSE	1%
Chlorobenzene	GWA-1A	FALSE	1%
Chlorobenzene	GWC-10	FALSE	1%
Chlorobenzene	GWC-10A	FALSE	1%
Chlorobenzene	GWC-11	FALSE	1%
Chlorobenzene	GWC-12	FALSE	1%
Chlorobenzene	GWC-12A	FALSE	1%
Chlorobenzene	GWC-2	FALSE	1%
Chlorobenzene	GWC-3	FALSE	1%
Chlorobenzene	GWC-3A	FALSE	1%
Chlorobenzene	GWC-5	FALSE	1%
Chlorobenzene	GWC-6	FALSE	1%
Chlorobenzene	GWC-9	FALSE	1%
Chlorobenzene	GWC-13	FALSE	1%
Chlorobenzene	GWC-14	FALSE	1%
Chlorobenzene	GWC-14A	FALSE	1%
Chlorobenzene	GWC-14R	FALSE	1%
Chlorobenzene	GWC-15	FALSE	1%
Chlorobenzene	GWC-19R	FALSE	1%
Chlorobenzene	GWC-22	FALSE	1%
Chlorobenzene	GWC-23	FALSE	1%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-23A	FALSE	1%
Chlorobenzene	GWC-7	FALSE	1%
Chlorobenzene	GWC-8	FALSE	1%
Chlorobenzene	GWC-8A	FALSE	1%
Chlorobenzene	GWC-8R	FALSE	1%
Chlorobenzene	GWC-16A	FALSE	1%
Chlorobenzene	GWC-4	FALSE	1%
Chlorobenzene	GWC-4A	FALSE	1%
Chlorobenzene	GWA-3	FALSE	0.16%
Chlorobenzene	GWC-17	FALSE	0.16%
Chlorobenzene	GWC-18	FALSE	0.16%
Chlorobenzene	GWC-24	FALSE	0.16%
Chlorobenzene	GWA-1A	FALSE	0.16%
Chlorobenzene	GWC-10	FALSE	0.16%
Chlorobenzene	GWC-10A	FALSE	0.16%
Chlorobenzene	GWC-11	FALSE	0.16%
Chlorobenzene	GWC-12	FALSE	0.16%
Chlorobenzene	GWC-12A	FALSE	0.16%
Chlorobenzene	GWC-2	FALSE	0.16%
Chlorobenzene	GWC-3	FALSE	0.16%
Chlorobenzene	GWC-3A	FALSE	0.16%
Chlorobenzene	GWC-5	FALSE	0.16%
Chlorobenzene	GWC-6	FALSE	0.16%
Chlorobenzene	GWC-9	FALSE	0.16%
Chlorobenzene	GWC-13	FALSE	0.16%
Chlorobenzene	GWC-14	FALSE	0.16%
Chlorobenzene	GWC-14A	FALSE	0.16%
Chlorobenzene	GWC-14R	FALSE	0.16%
Chlorobenzene	GWC-15	FALSE	0.16%
Chlorobenzene	GWC-19R	FALSE	0.16%
Chlorobenzene	GWC-22	FALSE	0.16%
Chlorobenzene	GWC-23	FALSE	0.16%
Chlorobenzene	GWC-23A	FALSE	0.16%
Chlorobenzene	GWC-7	FALSE	0.16%
Chlorobenzene	GWC-8	FALSE	0.16%
Chlorobenzene	GWC-8A	FALSE	0.16%
Chlorobenzene	GWC-8R	FALSE	0.16%
Chlorobenzene	GWC-16A	FALSE	0.16%

Notes:
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-4	FALSE	0.16%
Chlorobenzene	GWC-4A	FALSE	0.16%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWA-1A	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-2	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWC-13	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-17	FALSE	0.16%
Chloroethane	GWC-18	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%

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
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	FALSE	0.16%
Chloroethane	GWC-11	FALSE	0.16%
Chloroethane	GWC-12	FALSE	0.16%
Chloroethane	GWC-12A	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-3	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWC-13	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-19R	FALSE	0.16%
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-23A	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-8	FALSE	0.16%
Chloroethane	GWC-8A	FALSE	0.16%
Chloroethane	GWC-8R	FALSE	0.16%
Chloroethane	GWC-16A	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-4A	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-17	TRUE	1%
cis-1,2-Dichloroethene	GWC-18	TRUE	1%
cis-1,2-Dichloroethene	GWC-24	TRUE	1%
cis-1,2-Dichloroethene	GWA-1A	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%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWC-13	FALSE	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%
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-19R	TRUE	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-7	FALSE	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-16A	TRUE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-4A	FALSE	1%
cis-1,2-Dichloroethene	GWA-3	FALSE	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-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-1A	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-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-13	FALSE	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-19R	TRUE	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-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-8A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-8R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-16A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWA-1A	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-2	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	FALSE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-17	FALSE	0.16%
Tetrachloroethene	GWC-18	TRUE	0.16%
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWA-1A	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-2	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWC-13	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-19R	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-17	FALSE	1%
Trichloroethene	GWC-18	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWA-1A	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-2	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWC-13	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-14A	TRUE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	FALSE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-17	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-18	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWA-1A	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-2	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWC-13	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-14A	FALSE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%
Trichloroethene	GWC-15	TRUE	0.16%
Trichloroethene	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-8	FALSE	0.16%
Trichloroethene	GWC-8A	FALSE	0.16%
Trichloroethene	GWC-8R	FALSE	0.16%
Trichloroethene	GWC-16A	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-4A	FALSE	0.16%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	FALSE	1%
Vinyl chloride	GWC-11	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-12	FALSE	1%
Vinyl chloride	GWC-12A	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWC-13	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-19R	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	FALSE	1%
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-17	FALSE	0.16%
Vinyl chloride	GWC-18	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWA-1A	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-2	FALSE	0.16%
Vinyl chloride	GWC-3	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWC-13	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-19R	FALSE	0.16%
Vinyl chloride	GWC-22	FALSE	0.16%
Vinyl chloride	GWC-23	FALSE	0.16%
Vinyl chloride	GWC-23A	FALSE	0.16%
Vinyl chloride	GWC-7	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-16A	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%
Vinyl chloride	GWC-4A	FALSE	0.16%
Barium	GWA-1A	FALSE	1%
Barium	GWA-3	FALSE	1%
Barium	GWC-17	FALSE	1%
Barium	GWC-18	TRUE	1%
Barium	GWC-24	FALSE	1%
Barium	GWC-10	FALSE	1%
Barium	GWC-10A	FALSE	1%
Barium	GWC-11	FALSE	1%
Barium	GWC-12	FALSE	1%
Barium	GWC-12A	FALSE	1%
Barium	GWC-14	FALSE	1%
Barium	GWC-2	FALSE	1%
Barium	GWC-23A	FALSE	1%
Barium	GWC-3	FALSE	1%
Barium	GWC-3A	FALSE	1%
Barium	GWC-5	FALSE	1%
Barium	GWC-6	FALSE	1%
Barium	GWC-9	TRUE	1%
Barium	GWC-13	FALSE	1%
Barium	GWC-14A	TRUE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-15	TRUE	1%
Barium	GWC-19R	TRUE	1%
Barium	GWC-22	FALSE	1%
Barium	GWC-23	FALSE	1%
Barium	GWC-7	TRUE	1%
Barium	GWC-8	FALSE	1%
Barium	GWC-8A	TRUE	1%
Barium	GWC-16A	FALSE	1%
Barium	GWC-4	FALSE	1%
Barium	GWC-4A	FALSE	1%
Barium	GWA-1A	FALSE	0.17%
Barium	GWA-3	FALSE	0.17%
Barium	GWC-17	FALSE	0.17%
Barium	GWC-18	TRUE	0.17%
Barium	GWC-24	FALSE	0.17%
Barium	GWC-10	FALSE	0.17%
Barium	GWC-10A	FALSE	0.17%
Barium	GWC-11	FALSE	0.17%
Barium	GWC-12	FALSE	0.17%
Barium	GWC-12A	FALSE	0.17%
Barium	GWC-14	FALSE	0.17%
Barium	GWC-2	FALSE	0.17%
Barium	GWC-23A	FALSE	0.17%
Barium	GWC-3	FALSE	0.17%
Barium	GWC-3A	FALSE	0.17%
Barium	GWC-5	FALSE	0.17%
Barium	GWC-6	FALSE	0.17%
Barium	GWC-9	TRUE	0.17%
Barium	GWC-13	FALSE	0.17%
Barium	GWC-14A	TRUE	0.17%
Barium	GWC-15	TRUE	0.17%
Barium	GWC-19R	TRUE	0.17%
Barium	GWC-22	FALSE	0.17%
Barium	GWC-23	FALSE	0.17%
Barium	GWC-7	FALSE	0.17%
Barium	GWC-8	FALSE	0.17%
Barium	GWC-8A	FALSE	0.17%
Barium	GWC-16A	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-4	FALSE	0.17%
Barium	GWC-4A	FALSE	0.17%
Chromium	GWA-1A	FALSE	5%
Chromium	GWA-3	FALSE	5%
Chromium	GWC-17	FALSE	5%
Chromium	GWC-18	FALSE	5%
Chromium	GWC-24	FALSE	5%
Chromium	GWC-10	FALSE	5%
Chromium	GWC-10A	FALSE	5%
Chromium	GWC-11	FALSE	5%
Chromium	GWC-12	FALSE	5%
Chromium	GWC-12A	FALSE	5%
Chromium	GWC-14	FALSE	5%
Chromium	GWC-2	FALSE	5%
Chromium	GWC-23A	FALSE	5%
Chromium	GWC-3	FALSE	5%
Chromium	GWC-3A	FALSE	5%
Chromium	GWC-5	FALSE	5%
Chromium	GWC-6	FALSE	5%
Chromium	GWC-9	FALSE	5%
Chromium	GWC-13	FALSE	5%
Chromium	GWC-14A	FALSE	5%
Chromium	GWC-15	FALSE	5%
Chromium	GWC-19R	FALSE	5%
Chromium	GWC-22	FALSE	5%
Chromium	GWC-23	FALSE	5%
Chromium	GWC-7	FALSE	5%
Chromium	GWC-8	FALSE	5%
Chromium	GWC-8A	FALSE	5%
Chromium	GWC-16A	FALSE	5%
Chromium	GWC-4	FALSE	5%
Chromium	GWC-4A	FALSE	5%
Cobalt	GWA-1A	FALSE	1%
Cobalt	GWA-3	FALSE	1%
Cobalt	GWC-17	FALSE	1%
Cobalt	GWC-18	FALSE	1%
Cobalt	GWC-24	FALSE	1%
Cobalt	GWC-10	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-10A	FALSE	1%
Cobalt	GWC-11	FALSE	1%
Cobalt	GWC-12	FALSE	1%
Cobalt	GWC-12A	FALSE	1%
Cobalt	GWC-14	TRUE	1%
Cobalt	GWC-2	FALSE	1%
Cobalt	GWC-23A	FALSE	1%
Cobalt	GWC-3	FALSE	1%
Cobalt	GWC-3A	FALSE	1%
Cobalt	GWC-5	FALSE	1%
Cobalt	GWC-6	FALSE	1%
Cobalt	GWC-9	FALSE	1%
Cobalt	GWC-13	FALSE	1%
Cobalt	GWC-14A	TRUE	1%
Cobalt	GWC-15	FALSE	1%
Cobalt	GWC-19R	FALSE	1%
Cobalt	GWC-22	FALSE	1%
Cobalt	GWC-23	FALSE	1%
Cobalt	GWC-7	FALSE	1%
Cobalt	GWC-8	FALSE	1%
Cobalt	GWC-8A	FALSE	1%
Cobalt	GWC-16A	FALSE	1%
Cobalt	GWC-4	FALSE	1%
Cobalt	GWC-4A	FALSE	1%
Cobalt	GWA-1A	FALSE	0.17%
Cobalt	GWA-3	FALSE	0.17%
Cobalt	GWC-17	FALSE	0.17%
Cobalt	GWC-18	FALSE	0.17%
Cobalt	GWC-24	FALSE	0.17%
Cobalt	GWC-10	FALSE	0.17%
Cobalt	GWC-10A	FALSE	0.17%
Cobalt	GWC-11	FALSE	0.17%
Cobalt	GWC-12	FALSE	0.17%
Cobalt	GWC-12A	FALSE	0.17%
Cobalt	GWC-14	TRUE	0.17%
Cobalt	GWC-2	FALSE	0.17%
Cobalt	GWC-23A	FALSE	0.17%
Cobalt	GWC-3	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-3A	FALSE	0.17%
Cobalt	GWC-5	FALSE	0.17%
Cobalt	GWC-6	FALSE	0.17%
Cobalt	GWC-9	FALSE	0.17%
Cobalt	GWC-13	FALSE	0.17%
Cobalt	GWC-14A	TRUE	0.17%
Cobalt	GWC-15	FALSE	0.17%
Cobalt	GWC-19R	FALSE	0.17%
Cobalt	GWC-22	FALSE	0.17%
Cobalt	GWC-23	FALSE	0.17%
Cobalt	GWC-7	FALSE	0.17%
Cobalt	GWC-8	FALSE	0.17%
Cobalt	GWC-8A	FALSE	0.17%
Cobalt	GWC-16A	FALSE	0.17%
Cobalt	GWC-4	FALSE	0.17%
Cobalt	GWC-4A	FALSE	0.17%
Nickel	GWA-1A	FALSE	1%
Nickel	GWA-3	FALSE	1%
Nickel	GWC-17	FALSE	1%
Nickel	GWC-18	FALSE	1%
Nickel	GWC-24	FALSE	1%
Nickel	GWC-10	FALSE	1%
Nickel	GWC-10A	FALSE	1%
Nickel	GWC-11	FALSE	1%
Nickel	GWC-12	FALSE	1%
Nickel	GWC-12A	FALSE	1%
Nickel	GWC-14	FALSE	1%
Nickel	GWC-2	FALSE	1%
Nickel	GWC-23A	FALSE	1%
Nickel	GWC-3	FALSE	1%
Nickel	GWC-3A	FALSE	1%
Nickel	GWC-5	FALSE	1%
Nickel	GWC-6	FALSE	1%
Nickel	GWC-9	FALSE	1%
Nickel	GWC-13	FALSE	1%
Nickel	GWC-14A	TRUE	1%
Nickel	GWC-15	FALSE	1%
Nickel	GWC-19R	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Nickel	GWC-22	FALSE	1%
Nickel	GWC-23	FALSE	1%
Nickel	GWC-7	FALSE	1%
Nickel	GWC-8	FALSE	1%
Nickel	GWC-8A	FALSE	1%
Nickel	GWC-16A	FALSE	1%
Nickel	GWC-4	FALSE	1%
Nickel	GWC-4A	FALSE	1%
Nickel	GWA-1A	FALSE	0.17%
Nickel	GWA-3	FALSE	0.17%
Nickel	GWC-17	FALSE	0.17%
Nickel	GWC-18	FALSE	0.17%
Nickel	GWC-24	FALSE	0.17%
Nickel	GWC-10	FALSE	0.17%
Nickel	GWC-10A	FALSE	0.17%
Nickel	GWC-11	FALSE	0.17%
Nickel	GWC-12	FALSE	0.17%
Nickel	GWC-12A	FALSE	0.17%
Nickel	GWC-14	FALSE	0.17%
Nickel	GWC-2	FALSE	0.17%
Nickel	GWC-23A	FALSE	0.17%
Nickel	GWC-3	FALSE	0.17%
Nickel	GWC-3A	FALSE	0.17%
Nickel	GWC-5	FALSE	0.17%
Nickel	GWC-6	FALSE	0.17%
Nickel	GWC-9	FALSE	0.17%
Nickel	GWC-13	FALSE	0.17%
Nickel	GWC-14A	TRUE	0.17%
Nickel	GWC-15	FALSE	0.17%
Nickel	GWC-19R	FALSE	0.17%
Nickel	GWC-22	FALSE	0.17%
Nickel	GWC-23	FALSE	0.17%
Nickel	GWC-7	FALSE	0.17%
Nickel	GWC-8	FALSE	0.17%
Nickel	GWC-8A	FALSE	0.17%
Nickel	GWC-16A	FALSE	0.17%
Nickel	GWC-4	FALSE	0.17%
Nickel	GWC-4A	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
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWA-1A	FALSE	1%
Zinc	GWA-3	FALSE	1%
Zinc	GWC-17	FALSE	1%
Zinc	GWC-18	FALSE	1%
Zinc	GWC-24	FALSE	1%
Zinc	GWC-10	FALSE	1%
Zinc	GWC-10A	FALSE	1%
Zinc	GWC-11	FALSE	1%
Zinc	GWC-12	FALSE	1%
Zinc	GWC-12A	FALSE	1%
Zinc	GWC-14	FALSE	1%
Zinc	GWC-2	FALSE	1%
Zinc	GWC-23A	FALSE	1%
Zinc	GWC-3	FALSE	1%
Zinc	GWC-3A	FALSE	1%
Zinc	GWC-5	FALSE	1%
Zinc	GWC-6	FALSE	1%
Zinc	GWC-9	TRUE	1%
Zinc	GWC-13	FALSE	1%
Zinc	GWC-14A	FALSE	1%
Zinc	GWC-15	FALSE	1%
Zinc	GWC-19R	FALSE	1%
Zinc	GWC-22	FALSE	1%
Zinc	GWC-23	FALSE	1%
Zinc	GWC-7	FALSE	1%
Zinc	GWC-8	FALSE	1%
Zinc	GWC-8A	FALSE	1%
Zinc	GWC-16A	FALSE	1%
Zinc	GWC-4	FALSE	1%
Zinc	GWC-4A	FALSE	1%
Zinc	GWA-1A	FALSE	0.17%
Zinc	GWA-3	FALSE	0.17%
Zinc	GWC-17	FALSE	0.17%
Zinc	GWC-18	FALSE	0.17%
Zinc	GWC-24	FALSE	0.17%
Zinc	GWC-10	FALSE	0.17%
Zinc	GWC-10A	FALSE	0.17%
Zinc	GWC-11	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
Second 2021 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-12	FALSE	0.17%
Zinc	GWC-12A	FALSE	0.17%
Zinc	GWC-14	FALSE	0.17%
Zinc	GWC-2	FALSE	0.17%
Zinc	GWC-23A	FALSE	0.17%
Zinc	GWC-3	FALSE	0.17%
Zinc	GWC-3A	FALSE	0.17%
Zinc	GWC-5	FALSE	0.17%
Zinc	GWC-6	FALSE	0.17%
Zinc	GWC-9	FALSE	0.17%
Zinc	GWC-13	FALSE	0.17%
Zinc	GWC-14A	FALSE	0.17%
Zinc	GWC-15	FALSE	0.17%
Zinc	GWC-19R	FALSE	0.17%
Zinc	GWC-22	FALSE	0.17%
Zinc	GWC-23	FALSE	0.17%
Zinc	GWC-7	FALSE	0.17%
Zinc	GWC-8	FALSE	0.17%
Zinc	GWC-8A	FALSE	0.17%
Zinc	GWC-16A	FALSE	0.17%
Zinc	GWC-4	FALSE	0.17%
Zinc	GWC-4A	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-2	6/13/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/22/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWA-1	6/14/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/13/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/10/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			

Background Rank Sum = 4068
Background Rank Mean = 169.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/18/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/22/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/14/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			

GWC-17	6/13/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/14/2021	ND<1	169.5
Rank Sum = 1864.5			
Rank Mean = 169.5			
GWC-18	6/13/2016	ND<1	169.5
	12/6/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/14/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-24	6/13/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/14/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWA-1A	6/14/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/12/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/10/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/17/2021	ND<1	169.5
	12/16/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-10	6/14/2016	ND<1	169.5

	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/10/2019	ND<1	169.5
	12/12/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-10A	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/10/2019	ND<1	169.5
	12/12/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-11	6/14/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/12/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-12	6/14/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-12A	6/14/2016	ND<1	169.5
	12/7/2016	ND<1	169.5

	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-2	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/22/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-3	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	6/21/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 1864.5
Rank Mean = 169.5

GWC-3A	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-5	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/12/2017	ND<1	169.5
	12/12/2017	ND<1	169.5

	6/21/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-6	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/12/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/21/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/10/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-9	6/14/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/15/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/12/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-13	6/15/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/15/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

GWC-14	6/15/2016	ND<1	169.5
	6/13/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/10/2019	ND<1	169.5

	6/24/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/15/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 1525.5
Rank Mean = 169.5

GWC-14A	6/15/2016	16	373
	12/8/2016	22	385
	6/13/2017	16	374
	12/12/2017	23	388
	6/20/2018	17	378
	12/19/2018	16	375
	6/11/2019	9.2	355
	12/10/2019	14	366
	6/24/2020	10	358
	12/15/2020	11	359
	6/15/2021	9.2	356
	12/14/2021	13	363

Rank Sum = 4430
Rank Mean = 369.167

GWC-14R	6/15/2016	26	391
	12/8/2016	24	390
	6/13/2017	21	384
	12/12/2017	20	383
	6/20/2018	22	386
	12/19/2018	18	379
	6/12/2019	18	380
	12/10/2019	14	367
	6/23/2020	18	381
	12/17/2020	19	382
	6/16/2021	16	376
	12/14/2021	14	368

Rank Sum = 4567
Rank Mean = 380.583

GWC-15	6/15/2016	ND<1	169.5
	12/8/2016	38	393
	6/14/2017	2.9	343
	12/13/2017	3.7	348
	6/19/2018	ND<1	169.5
	12/19/2018	3	344
	6/11/2019	38	394
	12/10/2019	23	389
	6/25/2020	39	395
	12/17/2020	33	392
	6/16/2021	42	397
	12/14/2021	39	396

Rank Sum = 4130
Rank Mean = 344.167

GWC-19R	6/15/2016	ND<1	169.5
	12/6/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/13/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/9/2019	ND<1	169.5
	6/23/2020	ND<1	169.5

	12/15/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/14/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-22	6/15/2016	ND<1	169.5
	12/6/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-23	6/15/2016	ND<1	169.5
	12/6/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/18/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-23A	6/15/2016	ND<1	169.5
	12/6/2016	ND<1	169.5
	6/14/2017	ND<1	169.5
	12/11/2017	ND<1	169.5
	6/18/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/14/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-7	6/15/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	6/12/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/19/2018	ND<1	169.5
	12/18/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/24/2020	ND<1	169.5
	12/17/2020	ND<1	169.5

	6/15/2021	ND<1	169.5
	12/13/2021	ND<1	169.5
Rank Sum = 2034			
Rank Mean = 169.5			
GWC-8	6/15/2016	ND<1	169.5
	12/8/2016	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/12/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/16/2020	ND<1	169.5
	6/16/2021	ND<1	169.5
	12/15/2021	ND<1	169.5
Rank Sum = 1864.5			
Rank Mean = 169.5			
GWC-8A	6/15/2016	3.4	347
	12/8/2016	5.1	354
	6/13/2017	3	345
	12/12/2017	4.9	353
	6/20/2018	3.9	351
	12/19/2018	4.2	352
	6/12/2019	2.6	342
	12/11/2019	3.7	349
	6/23/2020	2.4	340
	12/15/2020	3.2	346
	6/16/2021	2.5	341
	12/15/2021	2.3	339
Rank Sum = 4159			
Rank Mean = 346.583			
GWC-8R	6/15/2016	15	371
	12/8/2016	15	372
	6/13/2017	14	369
	12/12/2017	14	370
	6/20/2018	22	387
	12/19/2018	13	364
	6/12/2019	12	361
	12/11/2019	9.3	357
	6/23/2020	13	365
	12/15/2020	12	362
	6/16/2021	16	377
	12/15/2021	11	360
Rank Sum = 4415			
Rank Mean = 367.917			
GWC-16A	6/16/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/14/2017	3.7	350
	12/13/2017	ND<1	169.5
	6/21/2018	ND<1	169.5
	12/19/2018	ND<1	169.5
	6/13/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/16/2021	ND<1	169.5
	12/16/2021	ND<1	169.5

Rank Sum = 2214.5
Rank Mean = 184.542

GWC-4	6/16/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/20/2018	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/16/2021	ND<1	169.5
	12/14/2021	ND<1	169.5

Rank Sum = 1186.5
Rank Mean = 169.5

GWC-4A	6/16/2016	ND<1	169.5
	12/7/2016	ND<1	169.5
	6/13/2017	ND<1	169.5
	12/12/2017	ND<1	169.5
	6/20/2018	ND<1	169.5
	12/17/2018	ND<1	169.5
	6/11/2019	ND<1	169.5
	12/11/2019	ND<1	169.5
	6/23/2020	ND<1	169.5
	12/17/2020	ND<1	169.5
	6/17/2021	ND<1	169.5
	12/15/2021	ND<1	169.5

Rank Sum = 2034
Rank Mean = 169.5

Calculation Results:

Kruskal-Wallis H Statistic = 143.169
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 373.938
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
143.169 > 46.1942 indicating a significant group difference at 5% significance level
373.938 > 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 169.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	169.5	0	94.3789
GWC-17	169.5	0	97.1968
GWC-18	169.5	0	94.3789
GWC-24	169.5	0	94.3789
GWA-1A	169.5	0	94.3789
GWC-10	169.5	0	94.3789
GWC-10A	169.5	0	94.3789
GWC-11	169.5	0	94.3789
GWC-12	169.5	0	94.3789
GWC-12A	169.5	0	94.3789
GWC-2	169.5	0	94.3789
GWC-3	169.5	0	97.1968
GWC-3A	169.5	0	94.3789
GWC-5	169.5	0	94.3789
GWC-6	169.5	0	94.3789
GWC-9	169.5	0	94.3789
GWC-13	169.5	0	94.3789
GWC-14	169.5	0	104.34
GWC-14A	**369.167**	**199.667**	**94.3789**
GWC-14R	**380.583**	**211.083**	**94.3789**

GWC-15	**344.167**	**174.667**	**94.3789**
GWC-19R	169.5	0	94.3789
GWC-22	169.5	0	94.3789
GWC-23	169.5	0	94.3789
GWC-23A	169.5	0	94.3789
GWC-7	169.5	0	94.3789
GWC-8	169.5	0	97.1968
GWC-8A	**346.583**	**177.083**	**94.3789**
GWC-8R	**367.917**	**198.417**	**94.3789**
GWC-16A	184.542	15.0417	94.3789
GWC-4	169.5	0	114.669
GWC-4A	169.5	0	94.3789

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 169.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	169.5	0	125.37
GWC-17	169.5	0	129.113
GWC-18	169.5	0	125.37
GWC-24	169.5	0	125.37
GWA-1A	169.5	0	125.37
GWC-10	169.5	0	125.37
GWC-10A	169.5	0	125.37
GWC-11	169.5	0	125.37
GWC-12	169.5	0	125.37
GWC-12A	169.5	0	125.37
GWC-2	169.5	0	125.37
GWC-3	169.5	0	129.113
GWC-3A	169.5	0	125.37
GWC-5	169.5	0	125.37
GWC-6	169.5	0	125.37
GWC-9	169.5	0	125.37
GWC-13	169.5	0	125.37
GWC-14	169.5	0	138.602
GWC-14A	**369.167**	**199.667**	**125.37**
GWC-14R	**380.583**	**211.083**	**125.37**
GWC-15	**344.167**	**174.667**	**125.37**
GWC-19R	169.5	0	125.37
GWC-22	169.5	0	125.37
GWC-23	169.5	0	125.37
GWC-23A	169.5	0	125.37
GWC-7	169.5	0	125.37
GWC-8	169.5	0	129.113
GWC-8A	**346.583**	**177.083**	**125.37**
GWC-8R	**367.917**	**198.417**	**125.37**
GWC-16A	184.542	15.0417	125.37
GWC-4	169.5	0	152.323
GWC-4A	169.5	0	125.37

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-2	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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWA-1	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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	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-3	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
	12/16/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/14/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			

GWC-17	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
	12/15/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/14/2021	ND<1	185.5
Rank Sum = 2040.5			
Rank Mean = 185.5			
GWC-18	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
	12/15/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/14/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-24	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
	12/15/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/14/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWA-1A	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
	12/17/2020	ND<1	185.5
	6/17/2021	ND<1	185.5
	12/16/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-10	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-10A	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-11	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-12	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-12A	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-2	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
	12/16/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-3	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
	12/16/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-3A	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
	12/16/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-6	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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-9	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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-13	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
	12/15/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-14	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
	12/17/2020	ND<1	185.5
	6/15/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 1669.5
Rank Mean = 185.5

GWC-14A	6/15/2016	2.5	377
	12/8/2016	2.3	374
	6/13/2017	2.8	383
	12/12/2017	3	387
	6/20/2018	2.8	384
	12/19/2018	2.5	378
	6/11/2019	2.1	372
	12/10/2019	2.6	380
	6/24/2020	2.5	379
	12/15/2020	2.9	386
	6/15/2021	2.6	381
	12/14/2021	3	388

Rank Sum = 4569
Rank Mean = 380.75

GWC-14R	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
	12/17/2020	ND<1	185.5
	6/16/2021	ND<1	185.5
	12/14/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-15	6/15/2016	ND<1	185.5
	12/8/2016	3.2	391
	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	3.1	389
	12/10/2019	ND<1	185.5
	6/25/2020	3.6	394
	12/17/2020	3.1	390
	6/16/2021	3.9	397
	12/14/2021	3.7	395

Rank Sum = 3469
Rank Mean = 289.083

GWC-19R	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

	12/15/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/14/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-22	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
	12/17/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/13/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-23	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
	12/16/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/13/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-23A	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
	12/16/2020	ND<1	185.5
	6/14/2021	ND<1	185.5
	12/13/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-7	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
	12/17/2020	ND<1	185.5

	6/15/2021	ND<1	185.5
	12/13/2021	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-8	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
	12/16/2020	ND<1	185.5
	6/16/2021	ND<1	185.5
	12/15/2021	ND<1	185.5
Rank Sum = 2040.5			
Rank Mean = 185.5			
GWC-8A	6/15/2016	2.2	373
	12/8/2016	3.2	392
	6/13/2017	2.3	375
	12/12/2017	3.8	396
	6/20/2018	2.7	382
	12/19/2018	3.3	393
	6/12/2019	ND<1	185.5
	12/11/2019	2.8	385
	6/23/2020	ND<1	185.5
	12/15/2020	2.3	376
	6/16/2021	ND<1	185.5
	12/15/2021	ND<1	185.5
Rank Sum = 3814			
Rank Mean = 317.833			
GWC-8R	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
	12/15/2020	ND<1	185.5
	6/16/2021	2	371
	12/15/2021	ND<1	185.5
Rank Sum = 2411.5			
Rank Mean = 200.958			
GWC-16A	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
	12/17/2020	ND<1	185.5
	6/16/2021	ND<1	185.5
	12/16/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-4	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
	12/17/2020	ND<1	185.5
	6/16/2021	ND<1	185.5
	12/14/2021	ND<1	185.5

Rank Sum = 1298.5
Rank Mean = 185.5

GWC-4A	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
	12/17/2020	ND<1	185.5
	6/17/2021	ND<1	185.5
	12/15/2021	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

Calculation Results:

Kruskal-Wallis H Statistic = 55.2043
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 289.833
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
55.2043 > 46.1942 indicating a significant group difference at 5% significance level
289.833 > 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-3	185.5	0	94.3789
GWC-17	185.5	0	97.1968
GWC-18	185.5	0	94.3789
GWC-24	185.5	0	94.3789
GWA-1A	185.5	0	94.3789
GWC-10	185.5	0	94.3789
GWC-10A	185.5	0	94.3789
GWC-11	185.5	0	94.3789
GWC-12	185.5	0	94.3789
GWC-12A	185.5	0	94.3789
GWC-2	185.5	0	94.3789
GWC-3	185.5	0	97.1968
GWC-3A	185.5	0	94.3789
GWC-5	185.5	0	94.3789
GWC-6	185.5	0	94.3789
GWC-9	185.5	0	94.3789
GWC-13	185.5	0	94.3789
GWC-14	185.5	0	104.34
GWC-14A	**380.75**	**195.25**	**94.3789**
GWC-14R	185.5	0	94.3789

GWC-15	**289.083**	**103.583**	**94.3789**
GWC-19R	185.5	0	94.3789
GWC-22	185.5	0	94.3789
GWC-23	185.5	0	94.3789
GWC-23A	185.5	0	94.3789
GWC-7	185.5	0	94.3789
GWC-8	185.5	0	97.1968
GWC-8A	**317.833**	**132.333**	**94.3789**
GWC-8R	200.958	15.4583	94.3789
GWC-16A	185.5	0	94.3789
GWC-4	185.5	0	114.669
GWC-4A	185.5	0	94.3789

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-3	185.5	0	125.37
GWC-17	185.5	0	129.113
GWC-18	185.5	0	125.37
GWC-24	185.5	0	125.37
GWA-1A	185.5	0	125.37
GWC-10	185.5	0	125.37
GWC-10A	185.5	0	125.37
GWC-11	185.5	0	125.37
GWC-12	185.5	0	125.37
GWC-12A	185.5	0	125.37
GWC-2	185.5	0	125.37
GWC-3	185.5	0	129.113
GWC-3A	185.5	0	125.37
GWC-5	185.5	0	125.37
GWC-6	185.5	0	125.37
GWC-9	185.5	0	125.37
GWC-13	185.5	0	125.37
GWC-14	185.5	0	138.602
GWC-14A	**380.75**	**195.25**	**125.37**
GWC-14R	185.5	0	125.37
GWC-15	289.083	103.583	125.37
GWC-19R	185.5	0	125.37
GWC-22	185.5	0	125.37
GWC-23	185.5	0	125.37
GWC-23A	185.5	0	125.37
GWC-7	185.5	0	125.37
GWC-8	185.5	0	129.113
GWC-8A	**317.833**	**132.333**	**125.37**
GWC-8R	200.958	15.4583	125.37
GWC-16A	185.5	0	125.37
GWC-4	185.5	0	152.323
GWC-4A	185.5	0	125.37

Kruskal-Wallis Non-Parametric Test

Parameter: Chlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/13/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/11/2017	ND<5	197
	6/19/2018	ND<5	197
	12/17/2018	ND<5	197
	6/11/2019	ND<5	197
	12/11/2019	ND<5	197
	6/22/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWA-1	6/14/2016	ND<5	197
	12/7/2016	ND<5	197
	6/13/2017	ND<5	197
	12/11/2017	ND<5	197
	6/19/2018	ND<5	197
	12/17/2018	ND<5	197
	6/10/2019	ND<5	197
	12/9/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			

Background Rank Sum = 4728
Background Rank Mean = 197

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<5	197
	12/8/2016	ND<5	197
	6/14/2017	ND<5	197
	12/11/2017	ND<5	197
	6/18/2018	ND<5	197
	12/17/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197
	6/22/2020	ND<5	197
	12/16/2020	ND<5	197
	6/14/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			

GWC-17	6/13/2016	ND<5	197
	6/14/2017	ND<5	197
	12/12/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/10/2019	ND<5	197
	6/23/2020	ND<5	197
	12/15/2020	ND<5	197
	6/14/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2167			
Rank Mean = 197			
GWC-18	6/13/2016	ND<5	197
	12/6/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/18/2018	ND<5	197
	6/11/2019	ND<5	197
	12/9/2019	ND<5	197
	6/23/2020	ND<5	197
	12/15/2020	ND<5	197
	6/14/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-24	6/13/2016	ND<5	197
	12/7/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/11/2019	ND<5	197
	12/9/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/14/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWA-1A	6/14/2016	ND<5	197
	12/7/2016	ND<5	197
	6/12/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/18/2018	ND<5	197
	6/10/2019	ND<5	197
	12/9/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/17/2021	ND<5	197
	12/16/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-10	6/14/2016	ND<5	197

	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/12/2017	ND<5	197
	6/19/2018	ND<5	197
	12/17/2018	ND<5	197
	6/10/2019	ND<5	197
	12/12/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-10A	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/12/2017	ND<5	197
	6/19/2018	ND<5	197
	12/17/2018	ND<5	197
	6/10/2019	ND<5	197
	12/12/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-11	6/14/2016	ND<5	197
	12/7/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/12/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-12	6/14/2016	ND<5	197
	12/7/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/11/2019	ND<5	197
	12/9/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-12A	6/14/2016	ND<5	197
	12/7/2016	ND<5	197

	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/11/2019	ND<5	197
	12/9/2019	ND<5	197
	6/24/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-2	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/13/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/10/2019	ND<5	197
	6/22/2020	ND<5	197
	12/16/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-3	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	6/21/2018	ND<5	197
	12/17/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197
	6/24/2020	ND<5	197
	12/16/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2167
Rank Mean = 197

GWC-3A	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/17/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197
	6/24/2020	ND<5	197
	12/16/2020	ND<5	197
	6/14/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-5	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/12/2017	ND<5	197
	12/12/2017	ND<5	197

	6/21/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/10/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-6	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/12/2017	ND<5	197
	12/13/2017	ND<5	197
	6/21/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/10/2019	ND<5	197
	6/24/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-9	6/14/2016	ND<5	197
	12/8/2016	ND<5	197
	6/15/2017	ND<5	197
	12/13/2017	ND<5	197
	6/20/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/12/2019	ND<5	197
	6/24/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-13	6/15/2016	ND<5	197
	12/7/2016	ND<5	197
	6/14/2017	ND<5	197
	12/12/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/15/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-14	6/15/2016	ND<5	197
	6/13/2017	ND<5	197
	6/20/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197

	6/24/2020	ND<5	197
	12/17/2020	ND<5	197
	6/15/2021	ND<5	197
	12/15/2021	ND<5	197
Rank Sum = 1773			
Rank Mean = 197			
GWC-14A	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/13/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197
	6/24/2020	12	394
	12/15/2020	16	397
	6/15/2021	15	395
	12/14/2021	15	396
Rank Sum = 3158			
Rank Mean = 263.167			
GWC-14R	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/13/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/10/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/16/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-15	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/19/2018	ND<5	197
	6/11/2019	ND<5	197
	12/10/2019	ND<5	197
	6/25/2020	ND<5	197
	12/17/2020	ND<5	197
	6/16/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-19R	6/15/2016	ND<5	197
	12/6/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/19/2018	ND<5	197
	12/18/2018	ND<5	197
	6/11/2019	ND<5	197
	12/9/2019	ND<5	197
	6/23/2020	ND<5	197

	12/15/2020	ND<5	197
	6/14/2021	ND<5	197
	12/14/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-22	6/15/2016	ND<5	197
	12/6/2016	ND<5	197
	6/14/2017	ND<5	197
	12/11/2017	ND<5	197
	6/19/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/14/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-23	6/15/2016	ND<5	197
	12/6/2016	ND<5	197
	6/14/2017	ND<5	197
	12/11/2017	ND<5	197
	6/18/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/24/2020	ND<5	197
	12/16/2020	ND<5	197
	6/14/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-23A	6/15/2016	ND<5	197
	12/6/2016	ND<5	197
	6/14/2017	ND<5	197
	12/11/2017	ND<5	197
	6/18/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/24/2020	ND<5	197
	12/16/2020	ND<5	197
	6/14/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-7	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/12/2017	ND<5	197
	12/12/2017	ND<5	197
	6/19/2018	ND<5	197
	12/18/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/24/2020	ND<5	197
	12/17/2020	ND<5	197

	6/15/2021	ND<5	197
	12/13/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-8	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/16/2020	ND<5	197
	6/16/2021	ND<5	197
	12/15/2021	ND<5	197
Rank Sum = 2167			
Rank Mean = 197			
GWC-8A	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/13/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/15/2020	ND<5	197
	6/16/2021	ND<5	197
	12/15/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-8R	6/15/2016	ND<5	197
	12/8/2016	ND<5	197
	6/13/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/19/2018	ND<5	197
	6/12/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/15/2020	ND<5	197
	6/16/2021	ND<5	197
	12/15/2021	ND<5	197
Rank Sum = 2364			
Rank Mean = 197			
GWC-16A	6/16/2016	ND<5	197
	12/7/2016	ND<5	197
	6/14/2017	ND<5	197
	12/13/2017	ND<5	197
	6/21/2018	ND<5	197
	12/19/2018	ND<5	197
	6/13/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/16/2021	ND<5	197
	12/16/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

GWC-4	6/16/2016	ND<5	197
	12/7/2016	ND<5	197
	6/20/2018	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/16/2021	ND<5	197
	12/14/2021	ND<5	197

Rank Sum = 1379
Rank Mean = 197

GWC-4A	6/16/2016	ND<5	197
	12/7/2016	ND<5	197
	6/13/2017	ND<5	197
	12/12/2017	ND<5	197
	6/20/2018	ND<5	197
	12/17/2018	ND<5	197
	6/11/2019	ND<5	197
	12/11/2019	ND<5	197
	6/23/2020	ND<5	197
	12/17/2020	ND<5	197
	6/17/2021	ND<5	197
	12/15/2021	ND<5	197

Rank Sum = 2364
Rank Mean = 197

Calculation Results:

Kruskal-Wallis H Statistic = 3.86935
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 129.309
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
3.86935 < 46.1942 indicating no significant group difference at 5% significance level
129.309 > 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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197	0	94.3789
GWC-17	197	0	97.1968
GWC-18	197	0	94.3789
GWC-24	197	0	94.3789
GWA-1A	197	0	94.3789
GWC-10	197	0	94.3789
GWC-10A	197	0	94.3789
GWC-11	197	0	94.3789
GWC-12	197	0	94.3789
GWC-12A	197	0	94.3789
GWC-2	197	0	94.3789
GWC-3	197	0	97.1968
GWC-3A	197	0	94.3789
GWC-5	197	0	94.3789
GWC-6	197	0	94.3789
GWC-9	197	0	94.3789
GWC-13	197	0	94.3789
GWC-14	197	0	104.34
GWC-14A	263.167	66.1667	94.3789
GWC-14R	197	0	94.3789

GWC-15	197	0	94.3789
GWC-19R	197	0	94.3789
GWC-22	197	0	94.3789
GWC-23	197	0	94.3789
GWC-23A	197	0	94.3789
GWC-7	197	0	94.3789
GWC-8	197	0	97.1968
GWC-8A	197	0	94.3789
GWC-8R	197	0	94.3789
GWC-16A	197	0	94.3789
GWC-4	197	0	114.669
GWC-4A	197	0	94.3789

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

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197	0	125.37
GWC-17	197	0	129.113
GWC-18	197	0	125.37
GWC-24	197	0	125.37
GWA-1A	197	0	125.37
GWC-10	197	0	125.37
GWC-10A	197	0	125.37
GWC-11	197	0	125.37
GWC-12	197	0	125.37
GWC-12A	197	0	125.37
GWC-2	197	0	125.37
GWC-3	197	0	129.113
GWC-3A	197	0	125.37
GWC-5	197	0	125.37
GWC-6	197	0	125.37
GWC-9	197	0	125.37
GWC-13	197	0	125.37
GWC-14	197	0	138.602
GWC-14A	263.167	66.1667	125.37
GWC-14R	197	0	125.37
GWC-15	197	0	125.37
GWC-19R	197	0	125.37
GWC-22	197	0	125.37
GWC-23	197	0	125.37
GWC-23A	197	0	125.37
GWC-7	197	0	125.37
GWC-8	197	0	129.113
GWC-8A	197	0	125.37
GWC-8R	197	0	125.37
GWC-16A	197	0	125.37
GWC-4	197	0	152.323
GWC-4A	197	0	125.37

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-2	6/13/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/22/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWA-1	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

Background Rank Sum = 4596
Background Rank Mean = 191.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/22/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			

GWC-17	6/13/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2106.5			
Rank Mean = 191.5			
GWC-18	6/13/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-24	6/13/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWA-1A	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/17/2021	ND<1	191.5
	12/16/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-10	6/14/2016	ND<1	191.5

	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-10A	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/10/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-11	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-12	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-12A	6/14/2016	ND<1	191.5
	12/7/2016	ND<1	191.5

	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-2	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/22/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-3	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2106.5			
Rank Mean = 191.5			
GWC-3A	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-5	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/12/2017	ND<1	191.5

	6/21/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-6	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-9	6/14/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/15/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/12/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-13	6/15/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-14	6/15/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5

	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/15/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 1723.5			
Rank Mean = 191.5			
GWC-14A	6/15/2016	12	397
	12/8/2016	6.4	394
	6/13/2017	5.8	393
	12/12/2017	7.7	395
	6/20/2018	8.5	396
	12/19/2018	5.4	392
	6/11/2019	4.4	390
	12/10/2019	3.6	388
	6/24/2020	3.3	386
	12/15/2020	4.2	389
	6/15/2021	3	385
	12/14/2021	5	391
Rank Sum = 4696			
Rank Mean = 391.333			
GWC-14R	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-15	6/15/2016	ND<1	191.5
	12/8/2016	2.8	384
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/10/2019	ND<1	191.5
	6/25/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2490.5			
Rank Mean = 207.542			
GWC-19R	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/13/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/9/2019	ND<1	191.5
	6/23/2020	ND<1	191.5

	12/15/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/14/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-22	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-23	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-23A	6/15/2016	ND<1	191.5
	12/6/2016	ND<1	191.5
	6/14/2017	ND<1	191.5
	12/11/2017	ND<1	191.5
	6/18/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/14/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-7	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/12/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/19/2018	ND<1	191.5
	12/18/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/24/2020	ND<1	191.5
	12/17/2020	ND<1	191.5

	6/15/2021	ND<1	191.5
	12/13/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-8	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/16/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2106.5			
Rank Mean = 191.5			
GWC-8A	6/15/2016	ND<1	191.5
	12/8/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2298			
Rank Mean = 191.5			
GWC-8R	6/15/2016	ND<1	191.5
	12/8/2016	2.2	383
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/12/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/15/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/15/2021	ND<1	191.5
Rank Sum = 2489.5			
Rank Mean = 207.458			
GWC-16A	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/14/2017	3.3	387
	12/13/2017	ND<1	191.5
	6/21/2018	ND<1	191.5
	12/19/2018	ND<1	191.5
	6/13/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/16/2021	ND<1	191.5

Rank Sum = 2493.5
Rank Mean = 207.792

GWC-4	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/20/2018	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/16/2021	ND<1	191.5
	12/14/2021	ND<1	191.5

Rank Sum = 1340.5
Rank Mean = 191.5

GWC-4A	6/16/2016	ND<1	191.5
	12/7/2016	ND<1	191.5
	6/13/2017	ND<1	191.5
	12/12/2017	ND<1	191.5
	6/20/2018	ND<1	191.5
	12/17/2018	ND<1	191.5
	6/11/2019	ND<1	191.5
	12/11/2019	ND<1	191.5
	6/23/2020	ND<1	191.5
	12/17/2020	ND<1	191.5
	6/17/2021	ND<1	191.5
	12/15/2021	ND<1	191.5

Rank Sum = 2298
Rank Mean = 191.5

Calculation Results:

Kruskal-Wallis H Statistic = 35.4061
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 324.464
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
35.4061 < 46.1942 indicating no significant group difference at 5% significance level
324.464 > 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 191.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191.5	0	94.3789
GWC-17	191.5	0	97.1968
GWC-18	191.5	0	94.3789
GWC-24	191.5	0	94.3789
GWA-1A	191.5	0	94.3789
GWC-10	191.5	0	94.3789
GWC-10A	191.5	0	94.3789
GWC-11	191.5	0	94.3789
GWC-12	191.5	0	94.3789
GWC-12A	191.5	0	94.3789
GWC-2	191.5	0	94.3789
GWC-3	191.5	0	97.1968
GWC-3A	191.5	0	94.3789
GWC-5	191.5	0	94.3789
GWC-6	191.5	0	94.3789
GWC-9	191.5	0	94.3789
GWC-13	191.5	0	94.3789
GWC-14	191.5	0	104.34
GWC-14A	**391.333**	**199.833**	**94.3789**
GWC-14R	191.5	0	94.3789

GWC-15	207.542	16.0417	94.3789
GWC-19R	191.5	0	94.3789
GWC-22	191.5	0	94.3789
GWC-23	191.5	0	94.3789
GWC-23A	191.5	0	94.3789
GWC-7	191.5	0	94.3789
GWC-8	191.5	0	97.1968
GWC-8A	191.5	0	94.3789
GWC-8R	207.458	15.9583	94.3789
GWC-16A	207.792	16.2917	94.3789
GWC-4	191.5	0	114.669
GWC-4A	191.5	0	94.3789

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 191.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	191.5	0	125.37
GWC-17	191.5	0	129.113
GWC-18	191.5	0	125.37
GWC-24	191.5	0	125.37
GWA-1A	191.5	0	125.37
GWC-10	191.5	0	125.37
GWC-10A	191.5	0	125.37
GWC-11	191.5	0	125.37
GWC-12	191.5	0	125.37
GWC-12A	191.5	0	125.37
GWC-2	191.5	0	125.37
GWC-3	191.5	0	129.113
GWC-3A	191.5	0	125.37
GWC-5	191.5	0	125.37
GWC-6	191.5	0	125.37
GWC-9	191.5	0	125.37
GWC-13	191.5	0	125.37
GWC-14	191.5	0	138.602
GWC-14A	**391.333**	**199.833**	**125.37**
GWC-14R	191.5	0	125.37
GWC-15	207.542	16.0417	125.37
GWC-19R	191.5	0	125.37
GWC-22	191.5	0	125.37
GWC-23	191.5	0	125.37
GWC-23A	191.5	0	125.37
GWC-7	191.5	0	125.37
GWC-8	191.5	0	129.113
GWC-8A	191.5	0	125.37
GWC-8R	207.458	15.9583	125.37
GWC-16A	207.792	16.2917	125.37
GWC-4	191.5	0	152.323
GWC-4A	191.5	0	125.37

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-2	6/13/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/11/2017	ND<1	142
	6/19/2018	ND<1	142
	12/17/2018	ND<1	142
	6/11/2019	ND<1	142
	12/11/2019	ND<1	142
	6/22/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWA-1	6/14/2016	ND<1	142
	12/7/2016	ND<1	142
	6/13/2017	ND<1	142
	12/11/2017	ND<1	142
	6/19/2018	ND<1	142
	12/17/2018	ND<1	142
	6/10/2019	ND<1	142
	12/9/2019	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			

Background Rank Sum = 3408
Background Rank Mean = 142

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<1	142
	12/8/2016	ND<1	142
	6/14/2017	ND<1	142
	12/11/2017	ND<1	142
	6/18/2018	ND<1	142
	12/17/2018	ND<1	142
	6/11/2019	ND<1	142
	12/10/2019	ND<1	142
	6/22/2020	ND<1	142
	12/16/2020	ND<1	142
	6/14/2021	ND<1	142
	12/14/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			

GWC-17	6/13/2016	41	379
	6/14/2017	8.4	322
	12/12/2017	17	337
	6/19/2018	4.7	307
	12/19/2018	8.7	323
	6/12/2019	ND<1	142
	12/10/2019	15	334
	6/23/2020	ND<1	142
	12/15/2020	22	348
	6/14/2021	2.2	287
	12/14/2021	7.6	316
Rank Sum = 3237			
Rank Mean = 294.273			
GWC-18	6/13/2016	3.6	303
	12/6/2016	16	335
	6/14/2017	16	336
	12/13/2017	14	332
	6/19/2018	7.7	318
	12/18/2018	12	330
	6/11/2019	14	333
	12/9/2019	30	368
	6/23/2020	10	325
	12/15/2020	26	361
	6/14/2021	6.2	314
	12/14/2021	10	326
Rank Sum = 3981			
Rank Mean = 331.75			
GWC-24	6/13/2016	5.2	310
	12/7/2016	5.4	312
	6/14/2017	ND<1	142
	12/13/2017	ND<1	142
	6/19/2018	2.2	288
	12/19/2018	3.7	304
	6/11/2019	4.4	306
	12/9/2019	6.1	313
	6/24/2020	3	298
	12/15/2020	3.5	301
	6/14/2021	ND<1	142
	12/14/2021	ND<1	142
Rank Sum = 3000			
Rank Mean = 250			
GWA-1A	6/14/2016	ND<1	142
	12/7/2016	ND<1	142
	6/12/2017	ND<1	142
	12/13/2017	ND<1	142
	6/19/2018	ND<1	142
	12/18/2018	ND<1	142
	6/10/2019	ND<1	142
	12/9/2019	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/17/2021	ND<1	142
	12/16/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-10	6/14/2016	ND<1	142

	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/12/2017	ND<1	142
	6/19/2018	ND<1	142
	12/17/2018	ND<1	142
	6/10/2019	ND<1	142
	12/12/2019	ND<1	142
	6/24/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-10A	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/12/2017	ND<1	142
	6/19/2018	ND<1	142
	12/17/2018	ND<1	142
	6/10/2019	ND<1	142
	12/12/2019	ND<1	142
	6/24/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-11	6/14/2016	ND<1	142
	12/7/2016	ND<1	142
	6/14/2017	ND<1	142
	12/13/2017	ND<1	142
	6/19/2018	ND<1	142
	12/19/2018	ND<1	142
	6/12/2019	ND<1	142
	12/12/2019	ND<1	142
	6/24/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-12	6/14/2016	ND<1	142
	12/7/2016	ND<1	142
	6/14/2017	ND<1	142
	12/13/2017	ND<1	142
	6/19/2018	ND<1	142
	12/19/2018	ND<1	142
	6/11/2019	ND<1	142
	12/9/2019	ND<1	142
	6/24/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-12A	6/14/2016	ND<1	142
	12/7/2016	ND<1	142

	6/14/2017	ND<1	142
	12/13/2017	ND<1	142
	6/19/2018	ND<1	142
	12/19/2018	ND<1	142
	6/11/2019	ND<1	142
	12/9/2019	ND<1	142
	6/24/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-2	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/13/2017	ND<1	142
	6/20/2018	ND<1	142
	12/19/2018	ND<1	142
	6/12/2019	ND<1	142
	12/10/2019	ND<1	142
	6/22/2020	ND<1	142
	12/16/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-3	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	6/21/2018	ND<1	142
	12/17/2018	ND<1	142
	6/11/2019	ND<1	142
	12/10/2019	ND<1	142
	6/24/2020	ND<1	142
	12/16/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 1562			
Rank Mean = 142			
GWC-3A	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/12/2017	ND<1	142
	6/20/2018	ND<1	142
	12/17/2018	ND<1	142
	6/11/2019	ND<1	142
	12/10/2019	ND<1	142
	6/24/2020	ND<1	142
	12/16/2020	ND<1	142
	6/14/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-5	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/12/2017	ND<1	142
	12/12/2017	ND<1	142

	6/21/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/10/2019	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142

Rank Sum = 1704
Rank Mean = 142

GWC-6	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/12/2017	ND<1	142
	12/13/2017	ND<1	142
	6/21/2018	ND<1	142
	12/19/2018	ND<1	142
	6/12/2019	ND<1	142
	12/10/2019	ND<1	142
	6/24/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142

Rank Sum = 1704
Rank Mean = 142

GWC-9	6/14/2016	ND<1	142
	12/8/2016	ND<1	142
	6/15/2017	ND<1	142
	12/13/2017	ND<1	142
	6/20/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/12/2019	ND<1	142
	6/24/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/13/2021	ND<1	142

Rank Sum = 1704
Rank Mean = 142

GWC-13	6/15/2016	ND<1	142
	12/7/2016	ND<1	142
	6/14/2017	ND<1	142
	12/12/2017	ND<1	142
	6/19/2018	ND<1	142
	12/19/2018	ND<1	142
	6/12/2019	ND<1	142
	12/11/2019	ND<1	142
	6/23/2020	ND<1	142
	12/15/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142

Rank Sum = 1704
Rank Mean = 142

GWC-14	6/15/2016	ND<1	142
	6/13/2017	ND<1	142
	6/20/2018	ND<1	142
	6/11/2019	ND<1	142
	12/10/2019	ND<1	142

	6/24/2020	ND<1	142
	12/17/2020	ND<1	142
	6/15/2021	ND<1	142
	12/15/2021	ND<1	142

Rank Sum = 1278
Rank Mean = 142

GWC-14A	6/15/2016	42	380
	12/8/2016	33	375
	6/13/2017	64	387
	12/12/2017	62	385
	6/20/2018	71	390
	12/19/2018	53	383
	6/11/2019	46	381
	12/10/2019	65	388
	6/24/2020	62	386
	12/15/2020	69	389
	6/15/2021	59	384
	12/14/2021	77	391

Rank Sum = 4619
Rank Mean = 384.917

GWC-14R	6/15/2016	25	359
	12/8/2016	19	341
	6/13/2017	26	362
	12/12/2017	20	343
	6/20/2018	24	352
	12/19/2018	17	338
	6/12/2019	21	344
	12/10/2019	19	342
	6/23/2020	26	363
	12/17/2020	28	367
	6/16/2021	26	364
	12/14/2021	24	353

Rank Sum = 4228
Rank Mean = 352.333

GWC-15	6/15/2016	ND<1	142
	12/8/2016	110	393
	6/14/2017	10	327
	12/13/2017	11	328
	6/19/2018	2	284
	12/19/2018	2.9	295
	6/11/2019	97	392
	12/10/2019	51	382
	6/25/2020	110	394
	12/17/2020	110	395
	6/16/2021	130	396
	12/14/2021	140	397

Rank Sum = 4125
Rank Mean = 343.75

GWC-19R	6/15/2016	9.3	324
	12/6/2016	13	331
	6/14/2017	2.4	291
	12/13/2017	4.7	308
	6/19/2018	5.1	309
	12/18/2018	2.9	296
	6/11/2019	7.7	319
	12/9/2019	11	329
	6/23/2020	7.2	315

	12/15/2020	7.9	320
	6/14/2021	5.3	311
	12/14/2021	7.9	321
Rank Sum = 3774			
Rank Mean = 314.5			
GWC-22	6/15/2016	ND<1	142
	12/6/2016	ND<1	142
	6/14/2017	ND<1	142
	12/11/2017	ND<1	142
	6/19/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/11/2019	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/14/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-23	6/15/2016	ND<1	142
	12/6/2016	ND<1	142
	6/14/2017	ND<1	142
	12/11/2017	ND<1	142
	6/18/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/11/2019	ND<1	142
	6/24/2020	ND<1	142
	12/16/2020	ND<1	142
	6/14/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-23A	6/15/2016	ND<1	142
	12/6/2016	ND<1	142
	6/14/2017	ND<1	142
	12/11/2017	ND<1	142
	6/18/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/11/2019	ND<1	142
	6/24/2020	ND<1	142
	12/16/2020	ND<1	142
	6/14/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-7	6/15/2016	ND<1	142
	12/8/2016	ND<1	142
	6/12/2017	ND<1	142
	12/12/2017	ND<1	142
	6/19/2018	ND<1	142
	12/18/2018	ND<1	142
	6/12/2019	ND<1	142
	12/11/2019	ND<1	142
	6/24/2020	ND<1	142
	12/17/2020	ND<1	142

	6/15/2021	ND<1	142
	12/13/2021	ND<1	142
Rank Sum = 1704			
Rank Mean = 142			
GWC-8	6/15/2016	ND<1	142
	12/8/2016	3.1	299
	12/12/2017	7.6	317
	6/20/2018	2.6	293
	12/19/2018	4.3	305
	6/12/2019	ND<1	142
	12/11/2019	2.8	294
	6/23/2020	ND<1	142
	12/16/2020	ND<1	142
	6/16/2021	ND<1	142
	12/15/2021	ND<1	142
Rank Sum = 2360			
Rank Mean = 214.545			
GWC-8A	6/15/2016	25	360
	12/8/2016	32	372
	6/13/2017	27	365
	12/12/2017	37	377
	6/20/2018	32	373
	12/19/2018	31	370
	6/12/2019	22	349
	12/11/2019	33	376
	6/23/2020	23	350
	12/15/2020	31	371
	6/16/2021	24	354
	12/15/2021	24	355
Rank Sum = 4372			
Rank Mean = 364.333			
GWC-8R	6/15/2016	21	345
	12/8/2016	17	339
	6/13/2017	23	351
	12/12/2017	21	346
	6/20/2018	24	356
	12/19/2018	18	340
	6/12/2019	21	347
	12/11/2019	24	357
	6/23/2020	27	366
	12/15/2020	30	369
	6/16/2021	32	374
	12/15/2021	24	358
Rank Sum = 4248			
Rank Mean = 354			
GWC-16A	6/16/2016	3.4	300
	12/7/2016	3.5	302
	6/14/2017	39	378
	12/13/2017	2.9	297
	6/21/2018	ND<1	142
	12/19/2018	2.5	292
	6/13/2019	ND<1	142
	12/11/2019	2.1	285
	6/23/2020	2.2	289
	12/17/2020	2.3	290
	6/16/2021	2.1	286
	12/16/2021	ND<1	142

Rank Sum = 3145
Rank Mean = 262.083

GWC-4	6/16/2016	ND<1	142
	12/7/2016	ND<1	142
	6/20/2018	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/16/2021	ND<1	142
	12/14/2021	ND<1	142

Rank Sum = 994
Rank Mean = 142

GWC-4A	6/16/2016	ND<1	142
	12/7/2016	ND<1	142
	6/13/2017	ND<1	142
	12/12/2017	ND<1	142
	6/20/2018	ND<1	142
	12/17/2018	ND<1	142
	6/11/2019	ND<1	142
	12/11/2019	ND<1	142
	6/23/2020	ND<1	142
	12/17/2020	ND<1	142
	6/17/2021	ND<1	142
	12/15/2021	ND<1	142

Rank Sum = 1704
Rank Mean = 142

Calculation Results:

Kruskal-Wallis H Statistic = 226.713
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 355.479
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
226.713 > 46.1942 indicating a significant group difference at 5% significance level
355.479 > 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 142

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	142	0	94.3789
GWC-17	**294.273**	**152.273**	**97.1968**
GWC-18	**331.75**	**189.75**	**94.3789**
GWC-24	**250**	**108**	**94.3789**
GWA-1A	142	0	94.3789
GWC-10	142	0	94.3789
GWC-10A	142	0	94.3789
GWC-11	142	0	94.3789
GWC-12	142	0	94.3789
GWC-12A	142	0	94.3789
GWC-2	142	0	94.3789
GWC-3	142	0	97.1968
GWC-3A	142	0	94.3789
GWC-5	142	0	94.3789
GWC-6	142	0	94.3789
GWC-9	142	0	94.3789
GWC-13	142	0	94.3789
GWC-14	142	0	104.34
GWC-14A	**384.917**	**242.917**	**94.3789**
GWC-14R	**352.333**	**210.333**	**94.3789**

GWC-15	**343.75**	**201.75**	**94.3789**
GWC-19R	**314.5**	**172.5**	**94.3789**
GWC-22	142	0	94.3789
GWC-23	142	0	94.3789
GWC-23A	142	0	94.3789
GWC-7	142	0	94.3789
GWC-8	214.545	72.5455	97.1968
GWC-8A	**364.333**	**222.333**	**94.3789**
GWC-8R	**354**	**212**	**94.3789**
GWC-16A	**262.083**	**120.083**	**94.3789**
GWC-4	142	0	114.669
GWC-4A	142	0	94.3789

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 142

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	142	0	125.37
GWC-17	**294.273**	**152.273**	**129.113**
GWC-18	**331.75**	**189.75**	**125.37**
GWC-24	250	108	125.37
GWA-1A	142	0	125.37
GWC-10	142	0	125.37
GWC-10A	142	0	125.37
GWC-11	142	0	125.37
GWC-12	142	0	125.37
GWC-12A	142	0	125.37
GWC-2	142	0	125.37
GWC-3	142	0	129.113
GWC-3A	142	0	125.37
GWC-5	142	0	125.37
GWC-6	142	0	125.37
GWC-9	142	0	125.37
GWC-13	142	0	125.37
GWC-14	142	0	138.602
GWC-14A	**384.917**	**242.917**	**125.37**
GWC-14R	**352.333**	**210.333**	**125.37**
GWC-15	**343.75**	**201.75**	**125.37**
GWC-19R	**314.5**	**172.5**	**125.37**
GWC-22	142	0	125.37
GWC-23	142	0	125.37
GWC-23A	142	0	125.37
GWC-7	142	0	125.37
GWC-8	214.545	72.5455	129.113
GWC-8A	**364.333**	**222.333**	**125.37**
GWC-8R	**354**	**212**	**125.37**
GWC-16A	262.083	120.083	125.37
GWC-4	142	0	152.323
GWC-4A	142	0	125.37

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-2	6/13/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/11/2017	ND<1	183
	6/19/2018	ND<1	183
	12/17/2018	ND<1	183
	6/11/2019	ND<1	183
	12/11/2019	ND<1	183
	6/22/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWA-1	6/14/2016	ND<1	183
	12/7/2016	ND<1	183
	6/13/2017	ND<1	183
	12/11/2017	ND<1	183
	6/19/2018	ND<1	183
	12/17/2018	ND<1	183
	6/10/2019	ND<1	183
	12/9/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			

Background Rank Sum = 4392
Background Rank Mean = 183

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<1	183
	12/8/2016	ND<1	183
	6/14/2017	ND<1	183
	12/11/2017	ND<1	183
	6/18/2018	ND<1	183
	12/17/2018	ND<1	183
	6/11/2019	ND<1	183
	12/10/2019	ND<1	183
	6/22/2020	ND<1	183
	12/16/2020	ND<1	183
	6/14/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			

GWC-17	6/13/2016	ND<1	183
	6/14/2017	ND<1	183
	12/12/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/10/2019	ND<1	183
	6/23/2020	ND<1	183
	12/15/2020	ND<1	183
	6/14/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 2013			
Rank Mean = 183			
GWC-18	6/13/2016	4	377
	12/6/2016	6.6	385
	6/14/2017	4.1	378
	12/13/2017	6.5	384
	6/19/2018	4.6	379
	12/18/2018	7	386
	6/11/2019	3.9	376
	12/9/2019	7.4	388
	6/23/2020	5.7	381
	12/15/2020	6.4	383
	6/14/2021	3.1	373
	12/14/2021	3.4	375
Rank Sum = 4565			
Rank Mean = 380.417			
GWC-24	6/13/2016	ND<1	183
	12/7/2016	ND<1	183
	6/14/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/11/2019	ND<1	183
	12/9/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/14/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWA-1A	6/14/2016	ND<1	183
	12/7/2016	ND<1	183
	6/12/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/18/2018	ND<1	183
	6/10/2019	ND<1	183
	12/9/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/17/2021	ND<1	183
	12/16/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-10	6/14/2016	ND<1	183

	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/12/2017	ND<1	183
	6/19/2018	ND<1	183
	12/17/2018	ND<1	183
	6/10/2019	ND<1	183
	12/12/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-10A	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/12/2017	ND<1	183
	6/19/2018	ND<1	183
	12/17/2018	ND<1	183
	6/10/2019	ND<1	183
	12/12/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-11	6/14/2016	ND<1	183
	12/7/2016	ND<1	183
	6/14/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/12/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-12	6/14/2016	ND<1	183
	12/7/2016	ND<1	183
	6/14/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/11/2019	ND<1	183
	12/9/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-12A	6/14/2016	ND<1	183
	12/7/2016	ND<1	183

	6/14/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/11/2019	ND<1	183
	12/9/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-2	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/13/2017	ND<1	183
	6/20/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/10/2019	ND<1	183
	6/22/2020	ND<1	183
	12/16/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-3	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	6/21/2018	ND<1	183
	12/17/2018	ND<1	183
	6/11/2019	ND<1	183
	12/10/2019	ND<1	183
	6/24/2020	ND<1	183
	12/16/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2013			
Rank Mean = 183			
GWC-3A	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	ND<1	183
	12/17/2018	ND<1	183
	6/11/2019	ND<1	183
	12/10/2019	ND<1	183
	6/24/2020	ND<1	183
	12/16/2020	ND<1	183
	6/14/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-5	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/12/2017	ND<1	183
	12/12/2017	ND<1	183

	6/21/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/10/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-6	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/12/2017	ND<1	183
	12/13/2017	ND<1	183
	6/21/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/10/2019	ND<1	183
	6/24/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-9	6/14/2016	ND<1	183
	12/8/2016	ND<1	183
	6/15/2017	ND<1	183
	12/13/2017	ND<1	183
	6/20/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/12/2019	ND<1	183
	6/24/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-13	6/15/2016	ND<1	183
	12/7/2016	ND<1	183
	6/14/2017	ND<1	183
	12/12/2017	ND<1	183
	6/19/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-14	6/15/2016	ND<1	183
	6/13/2017	ND<1	183
	6/20/2018	ND<1	183
	6/11/2019	ND<1	183
	12/10/2019	ND<1	183

	6/24/2020	ND<1	183
	12/17/2020	ND<1	183
	6/15/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 1647			
Rank Mean = 183			
GWC-14A	6/15/2016	ND<1	183
	12/8/2016	ND<1	183
	6/13/2017	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	ND<1	183
	12/19/2018	ND<1	183
	6/11/2019	ND<1	183
	12/10/2019	ND<1	183
	6/24/2020	ND<1	183
	12/15/2020	ND<1	183
	6/15/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-14R	6/15/2016	2.2	370
	12/8/2016	2.5	371
	6/13/2017	3.2	374
	12/12/2017	2	366
	6/20/2018	2	367
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/10/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/16/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 3129			
Rank Mean = 260.75			
GWC-15	6/15/2016	9	389
	12/8/2016	16	392
	6/14/2017	7.3	387
	12/13/2017	2.7	372
	6/19/2018	5	380
	12/19/2018	9.7	390
	6/11/2019	50	397
	12/10/2019	31	395
	6/25/2020	48	396
	12/17/2020	19	393
	6/16/2021	29	394
	12/14/2021	12	391
Rank Sum = 4676			
Rank Mean = 389.667			
GWC-19R	6/15/2016	ND<1	183
	12/6/2016	ND<1	183
	6/14/2017	ND<1	183
	12/13/2017	ND<1	183
	6/19/2018	ND<1	183
	12/18/2018	2	368
	6/11/2019	ND<1	183
	12/9/2019	ND<1	183
	6/23/2020	ND<1	183

	12/15/2020	ND<1	183
	6/14/2021	ND<1	183
	12/14/2021	ND<1	183
Rank Sum = 2381			
Rank Mean = 198.417			
GWC-22	6/15/2016	ND<1	183
	12/6/2016	ND<1	183
	6/14/2017	ND<1	183
	12/11/2017	ND<1	183
	6/19/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/14/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-23	6/15/2016	ND<1	183
	12/6/2016	ND<1	183
	6/14/2017	ND<1	183
	12/11/2017	ND<1	183
	6/18/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/24/2020	ND<1	183
	12/16/2020	ND<1	183
	6/14/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-23A	6/15/2016	ND<1	183
	12/6/2016	ND<1	183
	6/14/2017	ND<1	183
	12/11/2017	ND<1	183
	6/18/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/24/2020	ND<1	183
	12/16/2020	ND<1	183
	6/14/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-7	6/15/2016	ND<1	183
	12/8/2016	ND<1	183
	6/12/2017	ND<1	183
	12/12/2017	ND<1	183
	6/19/2018	ND<1	183
	12/18/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/24/2020	ND<1	183
	12/17/2020	ND<1	183

	6/15/2021	ND<1	183
	12/13/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-8	6/15/2016	ND<1	183
	12/8/2016	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/16/2020	ND<1	183
	6/16/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2013			
Rank Mean = 183			
GWC-8A	6/15/2016	ND<1	183
	12/8/2016	ND<1	183
	6/13/2017	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	ND<1	183
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/15/2020	ND<1	183
	6/16/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2196			
Rank Mean = 183			
GWC-8R	6/15/2016	ND<1	183
	12/8/2016	ND<1	183
	6/13/2017	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	2	369
	12/19/2018	ND<1	183
	6/12/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/15/2020	ND<1	183
	6/16/2021	ND<1	183
	12/15/2021	ND<1	183
Rank Sum = 2382			
Rank Mean = 198.5			
GWC-16A	6/16/2016	ND<1	183
	12/7/2016	ND<1	183
	6/14/2017	6.3	382
	12/13/2017	ND<1	183
	6/21/2018	ND<1	183
	12/19/2018	ND<1	183
	6/13/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/16/2021	ND<1	183
	12/16/2021	ND<1	183

Rank Sum = 2395
Rank Mean = 199.583

GWC-4	6/16/2016	ND<1	183
	12/7/2016	ND<1	183
	6/20/2018	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/16/2021	ND<1	183
	12/14/2021	ND<1	183

Rank Sum = 1281
Rank Mean = 183

GWC-4A	6/16/2016	ND<1	183
	12/7/2016	ND<1	183
	6/13/2017	ND<1	183
	12/12/2017	ND<1	183
	6/20/2018	ND<1	183
	12/17/2018	ND<1	183
	6/11/2019	ND<1	183
	12/11/2019	ND<1	183
	6/23/2020	ND<1	183
	12/17/2020	ND<1	183
	6/17/2021	ND<1	183
	12/15/2021	ND<1	183

Rank Sum = 2196
Rank Mean = 183

Calculation Results:

Kruskal-Wallis H Statistic = 72.9206
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 327.223
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
72.9206 > 46.1942 indicating a significant group difference at 5% significance level
327.223 > 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 183

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	183	0	94.3789
GWC-17	183	0	97.1968
GWC-18	**380.417**	**197.417**	**94.3789**
GWC-24	183	0	94.3789
GWA-1A	183	0	94.3789
GWC-10	183	0	94.3789
GWC-10A	183	0	94.3789
GWC-11	183	0	94.3789
GWC-12	183	0	94.3789
GWC-12A	183	0	94.3789
GWC-2	183	0	94.3789
GWC-3	183	0	97.1968
GWC-3A	183	0	94.3789
GWC-5	183	0	94.3789
GWC-6	183	0	94.3789
GWC-9	183	0	94.3789
GWC-13	183	0	94.3789
GWC-14	183	0	104.34
GWC-14A	183	0	94.3789
GWC-14R	260.75	77.75	94.3789

GWC-15	**389.667**	**206.667**	**94.3789**
GWC-19R	198.417	15.4167	94.3789
GWC-22	183	0	94.3789
GWC-23	183	0	94.3789
GWC-23A	183	0	94.3789
GWC-7	183	0	94.3789
GWC-8	183	0	97.1968
GWC-8A	183	0	94.3789
GWC-8R	198.5	15.5	94.3789
GWC-16A	199.583	16.5833	94.3789
GWC-4	183	0	114.669
GWC-4A	183	0	94.3789

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 183

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	183	0	125.37
GWC-17	183	0	129.113
GWC-18	**380.417**	**197.417**	**125.37**
GWC-24	183	0	125.37
GWA-1A	183	0	125.37
GWC-10	183	0	125.37
GWC-10A	183	0	125.37
GWC-11	183	0	125.37
GWC-12	183	0	125.37
GWC-12A	183	0	125.37
GWC-2	183	0	125.37
GWC-3	183	0	129.113
GWC-3A	183	0	125.37
GWC-5	183	0	125.37
GWC-6	183	0	125.37
GWC-9	183	0	125.37
GWC-13	183	0	125.37
GWC-14	183	0	138.602
GWC-14A	183	0	125.37
GWC-14R	260.75	77.75	125.37
GWC-15	**389.667**	**206.667**	**125.37**
GWC-19R	198.417	15.4167	125.37
GWC-22	183	0	125.37
GWC-23	183	0	125.37
GWC-23A	183	0	125.37
GWC-7	183	0	125.37
GWC-8	183	0	129.113
GWC-8A	183	0	125.37
GWC-8R	198.5	15.5	125.37
GWC-16A	199.583	16.5833	125.37
GWC-4	183	0	152.323
GWC-4A	183	0	125.37

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-2	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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWA-1	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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	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-3	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
	12/16/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/14/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			

GWC-17	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
	12/15/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/14/2021	ND<1	180.5
Rank Sum = 1985.5			
Rank Mean = 180.5			
GWC-18	6/13/2016	ND<1	180.5
	12/6/2016	2.3	366
	6/14/2017	ND<1	180.5
	12/13/2017	2.3	367
	6/19/2018	ND<1	180.5
	12/18/2018	2.1	361
	6/11/2019	ND<1	180.5
	12/9/2019	2.6	369
	6/23/2020	ND<1	180.5
	12/15/2020	2.4	368
	6/14/2021	ND<1	180.5
	12/14/2021	ND<1	180.5
Rank Sum = 3094.5			
Rank Mean = 257.875			
GWC-24	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
	12/15/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/14/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWA-1A	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
	12/17/2020	ND<1	180.5
	6/17/2021	ND<1	180.5
	12/16/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-10	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-10A	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-11	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-12	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-12A	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-2	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
	12/16/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-3	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
	12/16/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 1985.5
Rank Mean = 180.5

GWC-3A	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
	12/16/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-6	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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-9	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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-13	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
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

GWC-14	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
	12/17/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 1624.5
Rank Mean = 180.5

GWC-14A	6/15/2016	4.3	379
	12/8/2016	6.8	389
	6/13/2017	3.5	373
	12/12/2017	3.8	375
	6/20/2018	2.1	362
	12/19/2018	2.2	365
	6/11/2019	ND<1	180.5
	12/10/2019	3.1	372
	6/24/2020	ND<1	180.5
	12/15/2020	ND<1	180.5
	6/15/2021	ND<1	180.5
	12/14/2021	ND<1	180.5

Rank Sum = 3517.5
Rank Mean = 293.125

GWC-14R	6/15/2016	6.1	388
	12/8/2016	5.4	387
	6/13/2017	6.8	390
	12/12/2017	4.8	383
	6/20/2018	5.2	385
	12/19/2018	4.9	384
	6/12/2019	4.7	382
	12/10/2019	4.3	380
	6/23/2020	4.3	381
	12/17/2020	3.9	376
	6/16/2021	3.9	377
	12/14/2021	2.8	370

Rank Sum = 4583
Rank Mean = 381.917

GWC-15	6/15/2016	ND<1	180.5
	12/8/2016	73	396
	6/14/2017	2.1	363
	12/13/2017	ND<1	180.5
	6/19/2018	ND<1	180.5
	12/19/2018	3.7	374
	6/11/2019	70	394
	12/10/2019	55	393
	6/25/2020	90	397
	12/17/2020	45	391
	6/16/2021	71	395
	12/14/2021	48	392

Rank Sum = 4036.5
Rank Mean = 336.375

GWC-19R	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	ND<1	180.5
	6/11/2019	ND<1	180.5
	12/9/2019	ND<1	180.5
	6/23/2020	ND<1	180.5

	12/15/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/14/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-22	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
	12/17/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/13/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-23	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
	12/16/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/13/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-23A	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
	12/16/2020	ND<1	180.5
	6/14/2021	ND<1	180.5
	12/13/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-7	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
	12/17/2020	ND<1	180.5

	6/15/2021	ND<1	180.5
	12/13/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-8	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
	12/16/2020	ND<1	180.5
	6/16/2021	ND<1	180.5
	12/15/2021	ND<1	180.5
Rank Sum = 1985.5			
Rank Mean = 180.5			
GWC-8A	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
	12/15/2020	ND<1	180.5
	6/16/2021	ND<1	180.5
	12/15/2021	ND<1	180.5
Rank Sum = 2166			
Rank Mean = 180.5			
GWC-8R	6/15/2016	ND<1	180.5
	12/8/2016	ND<1	180.5
	6/13/2017	2.9	371
	12/12/2017	ND<1	180.5
	6/20/2018	5.3	386
	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
	12/15/2020	ND<1	180.5
	6/16/2021	2.1	364
	12/15/2021	ND<1	180.5
Rank Sum = 2745.5			
Rank Mean = 228.792			
GWC-16A	6/16/2016	ND<1	180.5
	12/7/2016	ND<1	180.5
	6/14/2017	3.9	378
	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
	12/17/2020	ND<1	180.5
	6/16/2021	ND<1	180.5
	12/16/2021	ND<1	180.5

Rank Sum = 2363.5
Rank Mean = 196.958

GWC-4	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
	12/17/2020	ND<1	180.5
	6/16/2021	ND<1	180.5
	12/14/2021	ND<1	180.5

Rank Sum = 1263.5
Rank Mean = 180.5

GWC-4A	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
	12/17/2020	ND<1	180.5
	6/17/2021	ND<1	180.5
	12/15/2021	ND<1	180.5

Rank Sum = 2166
Rank Mean = 180.5

Calculation Results:

Kruskal-Wallis H Statistic = 68.1852
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 268.077
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
68.1852 > 46.1942 indicating a significant group difference at 5% significance level
268.077 > 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-3	180.5	0	94.3789
GWC-17	180.5	0	97.1968
GWC-18	257.875	77.375	94.3789
GWC-24	180.5	0	94.3789
GWA-1A	180.5	0	94.3789
GWC-10	180.5	0	94.3789
GWC-10A	180.5	0	94.3789
GWC-11	180.5	0	94.3789
GWC-12	180.5	0	94.3789
GWC-12A	180.5	0	94.3789
GWC-2	180.5	0	94.3789
GWC-3	180.5	0	97.1968
GWC-3A	180.5	0	94.3789
GWC-5	180.5	0	94.3789
GWC-6	180.5	0	94.3789
GWC-9	180.5	0	94.3789
GWC-13	180.5	0	94.3789
GWC-14	180.5	0	104.34
GWC-14A	**293.125**	**112.625**	**94.3789**
GWC-14R	**381.917**	**201.417**	**94.3789**

GWC-15	**336.375**	**155.875**	**94.3789**
GWC-19R	180.5	0	94.3789
GWC-22	180.5	0	94.3789
GWC-23	180.5	0	94.3789
GWC-23A	180.5	0	94.3789
GWC-7	180.5	0	94.3789
GWC-8	180.5	0	97.1968
GWC-8A	180.5	0	94.3789
GWC-8R	228.792	48.2917	94.3789
GWC-16A	196.958	16.4583	94.3789
GWC-4	180.5	0	114.669
GWC-4A	180.5	0	94.3789

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-3	180.5	0	125.37
GWC-17	180.5	0	129.113
GWC-18	257.875	77.375	125.37
GWC-24	180.5	0	125.37
GWA-1A	180.5	0	125.37
GWC-10	180.5	0	125.37
GWC-10A	180.5	0	125.37
GWC-11	180.5	0	125.37
GWC-12	180.5	0	125.37
GWC-12A	180.5	0	125.37
GWC-2	180.5	0	125.37
GWC-3	180.5	0	129.113
GWC-3A	180.5	0	125.37
GWC-5	180.5	0	125.37
GWC-6	180.5	0	125.37
GWC-9	180.5	0	125.37
GWC-13	180.5	0	125.37
GWC-14	180.5	0	138.602
GWC-14A	293.125	112.625	125.37
GWC-14R	**381.917**	**201.417**	**125.37**
GWC-15	**336.375**	**155.875**	**125.37**
GWC-19R	180.5	0	125.37
GWC-22	180.5	0	125.37
GWC-23	180.5	0	125.37
GWC-23A	180.5	0	125.37
GWC-7	180.5	0	125.37
GWC-8	180.5	0	129.113
GWC-8A	180.5	0	125.37
GWC-8R	228.792	48.2917	125.37
GWC-16A	196.958	16.4583	125.37
GWC-4	180.5	0	152.323
GWC-4A	180.5	0	125.37

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-2	6/13/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/11/2017	ND<1	192
	6/19/2018	ND<1	192
	12/17/2018	ND<1	192
	6/11/2019	ND<1	192
	12/11/2019	ND<1	192
	6/22/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWA-1	6/14/2016	ND<1	192
	12/7/2016	ND<1	192
	6/13/2017	ND<1	192
	12/11/2017	ND<1	192
	6/19/2018	ND<1	192
	12/17/2018	ND<1	192
	6/10/2019	ND<1	192
	12/9/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			

Background Rank Sum = 4608
Background Rank Mean = 192

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	6/13/2016	ND<1	192
	12/8/2016	ND<1	192
	6/14/2017	ND<1	192
	12/11/2017	ND<1	192
	6/18/2018	ND<1	192
	12/17/2018	ND<1	192
	6/11/2019	ND<1	192
	12/10/2019	ND<1	192
	6/22/2020	ND<1	192
	12/16/2020	ND<1	192
	6/14/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			

GWC-17	6/13/2016	ND<1	192
	6/14/2017	ND<1	192
	12/12/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/10/2019	ND<1	192
	6/23/2020	ND<1	192
	12/15/2020	ND<1	192
	6/14/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2112			
Rank Mean = 192			
GWC-18	6/13/2016	ND<1	192
	12/6/2016	ND<1	192
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/18/2018	ND<1	192
	6/11/2019	ND<1	192
	12/9/2019	ND<1	192
	6/23/2020	ND<1	192
	12/15/2020	ND<1	192
	6/14/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-24	6/13/2016	ND<1	192
	12/7/2016	ND<1	192
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/11/2019	ND<1	192
	12/9/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/14/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWA-1A	6/14/2016	ND<1	192
	12/7/2016	ND<1	192
	6/12/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/18/2018	ND<1	192
	6/10/2019	ND<1	192
	12/9/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/17/2021	ND<1	192
	12/16/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-10	6/14/2016	ND<1	192

	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/12/2017	ND<1	192
	6/19/2018	ND<1	192
	12/17/2018	ND<1	192
	6/10/2019	ND<1	192
	12/12/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-10A	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/12/2017	ND<1	192
	6/19/2018	ND<1	192
	12/17/2018	ND<1	192
	6/10/2019	ND<1	192
	12/12/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-11	6/14/2016	ND<1	192
	12/7/2016	ND<1	192
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/12/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-12	6/14/2016	ND<1	192
	12/7/2016	ND<1	192
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/11/2019	ND<1	192
	12/9/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-12A	6/14/2016	ND<1	192
	12/7/2016	ND<1	192

	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/11/2019	ND<1	192
	12/9/2019	ND<1	192
	6/24/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-2	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/13/2017	ND<1	192
	6/20/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/10/2019	ND<1	192
	6/22/2020	ND<1	192
	12/16/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-3	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	6/21/2018	ND<1	192
	12/17/2018	ND<1	192
	6/11/2019	ND<1	192
	12/10/2019	ND<1	192
	6/24/2020	ND<1	192
	12/16/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2112			
Rank Mean = 192			
GWC-3A	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/17/2018	ND<1	192
	6/11/2019	ND<1	192
	12/10/2019	ND<1	192
	6/24/2020	ND<1	192
	12/16/2020	ND<1	192
	6/14/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-5	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/12/2017	ND<1	192
	12/12/2017	ND<1	192

	6/21/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/10/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-6	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/12/2017	ND<1	192
	12/13/2017	ND<1	192
	6/21/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/10/2019	ND<1	192
	6/24/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-9	6/14/2016	ND<1	192
	12/8/2016	ND<1	192
	6/15/2017	ND<1	192
	12/13/2017	ND<1	192
	6/20/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/12/2019	ND<1	192
	6/24/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-13	6/15/2016	ND<1	192
	12/7/2016	ND<1	192
	6/14/2017	ND<1	192
	12/12/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/15/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-14	6/15/2016	ND<1	192
	6/13/2017	ND<1	192
	6/20/2018	ND<1	192
	6/11/2019	ND<1	192
	12/10/2019	ND<1	192

	6/24/2020	ND<1	192
	12/17/2020	ND<1	192
	6/15/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 1728			
Rank Mean = 192			
GWC-14A	6/15/2016	8.4	394
	12/8/2016	5.7	390
	6/13/2017	3.5	385
	12/12/2017	6	391
	6/20/2018	6.2	392
	12/19/2018	4.9	389
	6/11/2019	4.3	387
	12/10/2019	4	386
	6/24/2020	7.5	393
	12/15/2020	11	395
	6/15/2021	12	396
	12/14/2021	19	397
Rank Sum = 4695			
Rank Mean = 391.25			
GWC-14R	6/15/2016	ND<1	192
	12/8/2016	ND<1	192
	6/13/2017	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/10/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/16/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-15	6/15/2016	ND<1	192
	12/8/2016	2.3	384
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/19/2018	ND<1	192
	6/11/2019	ND<1	192
	12/10/2019	ND<1	192
	6/25/2020	ND<1	192
	12/17/2020	ND<1	192
	6/16/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2496			
Rank Mean = 208			
GWC-19R	6/15/2016	ND<1	192
	12/6/2016	ND<1	192
	6/14/2017	ND<1	192
	12/13/2017	ND<1	192
	6/19/2018	ND<1	192
	12/18/2018	ND<1	192
	6/11/2019	ND<1	192
	12/9/2019	ND<1	192
	6/23/2020	ND<1	192

	12/15/2020	ND<1	192
	6/14/2021	ND<1	192
	12/14/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-22	6/15/2016	ND<1	192
	12/6/2016	ND<1	192
	6/14/2017	ND<1	192
	12/11/2017	ND<1	192
	6/19/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/14/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-23	6/15/2016	ND<1	192
	12/6/2016	ND<1	192
	6/14/2017	ND<1	192
	12/11/2017	ND<1	192
	6/18/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/24/2020	ND<1	192
	12/16/2020	ND<1	192
	6/14/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-23A	6/15/2016	ND<1	192
	12/6/2016	ND<1	192
	6/14/2017	ND<1	192
	12/11/2017	ND<1	192
	6/18/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/24/2020	ND<1	192
	12/16/2020	ND<1	192
	6/14/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-7	6/15/2016	ND<1	192
	12/8/2016	ND<1	192
	6/12/2017	ND<1	192
	12/12/2017	ND<1	192
	6/19/2018	ND<1	192
	12/18/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/24/2020	ND<1	192
	12/17/2020	ND<1	192

	6/15/2021	ND<1	192
	12/13/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-8	6/15/2016	ND<1	192
	12/8/2016	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/16/2020	ND<1	192
	6/16/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2112			
Rank Mean = 192			
GWC-8A	6/15/2016	ND<1	192
	12/8/2016	ND<1	192
	6/13/2017	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/15/2020	ND<1	192
	6/16/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-8R	6/15/2016	ND<1	192
	12/8/2016	ND<1	192
	6/13/2017	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/19/2018	ND<1	192
	6/12/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/15/2020	ND<1	192
	6/16/2021	ND<1	192
	12/15/2021	ND<1	192
Rank Sum = 2304			
Rank Mean = 192			
GWC-16A	6/16/2016	ND<1	192
	12/7/2016	ND<1	192
	6/14/2017	4.8	388
	12/13/2017	ND<1	192
	6/21/2018	ND<1	192
	12/19/2018	ND<1	192
	6/13/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/16/2021	ND<1	192
	12/16/2021	ND<1	192

Rank Sum = 2500
Rank Mean = 208.333

GWC-4	6/16/2016	ND<1	192
	12/7/2016	ND<1	192
	6/20/2018	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/16/2021	ND<1	192
	12/14/2021	ND<1	192

Rank Sum = 1344
Rank Mean = 192

GWC-4A	6/16/2016	ND<1	192
	12/7/2016	ND<1	192
	6/13/2017	ND<1	192
	12/12/2017	ND<1	192
	6/20/2018	ND<1	192
	12/17/2018	ND<1	192
	6/11/2019	ND<1	192
	12/11/2019	ND<1	192
	6/23/2020	ND<1	192
	12/17/2020	ND<1	192
	6/17/2021	ND<1	192
	12/15/2021	ND<1	192

Rank Sum = 2304
Rank Mean = 192

Calculation Results:

Kruskal-Wallis H Statistic = 35.1805
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 344.545
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
35.1805 < 46.1942 indicating no significant group difference at 5% significance level
344.545 > 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 192

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	192	0	94.3789
GWC-17	192	0	97.1968
GWC-18	192	0	94.3789
GWC-24	192	0	94.3789
GWA-1A	192	0	94.3789
GWC-10	192	0	94.3789
GWC-10A	192	0	94.3789
GWC-11	192	0	94.3789
GWC-12	192	0	94.3789
GWC-12A	192	0	94.3789
GWC-2	192	0	94.3789
GWC-3	192	0	97.1968
GWC-3A	192	0	94.3789
GWC-5	192	0	94.3789
GWC-6	192	0	94.3789
GWC-9	192	0	94.3789
GWC-13	192	0	94.3789
GWC-14	192	0	104.34
GWC-14A	**391.25**	**199.25**	**94.3789**
GWC-14R	192	0	94.3789

GWC-15	208	16	94.3789
GWC-19R	192	0	94.3789
GWC-22	192	0	94.3789
GWC-23	192	0	94.3789
GWC-23A	192	0	94.3789
GWC-7	192	0	94.3789
GWC-8	192	0	97.1968
GWC-8A	192	0	94.3789
GWC-8R	192	0	94.3789
GWC-16A	208.333	16.3333	94.3789
GWC-4	192	0	114.669
GWC-4A	192	0	94.3789

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 192

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	192	0	125.37
GWC-17	192	0	129.113
GWC-18	192	0	125.37
GWC-24	192	0	125.37
GWA-1A	192	0	125.37
GWC-10	192	0	125.37
GWC-10A	192	0	125.37
GWC-11	192	0	125.37
GWC-12	192	0	125.37
GWC-12A	192	0	125.37
GWC-2	192	0	125.37
GWC-3	192	0	129.113
GWC-3A	192	0	125.37
GWC-5	192	0	125.37
GWC-6	192	0	125.37
GWC-9	192	0	125.37
GWC-13	192	0	125.37
GWC-14	192	0	138.602
GWC-14A	**391.25**	**199.25**	**125.37**
GWC-14R	192	0	125.37
GWC-15	208	16	125.37
GWC-19R	192	0	125.37
GWC-22	192	0	125.37
GWC-23	192	0	125.37
GWC-23A	192	0	125.37
GWC-7	192	0	125.37
GWC-8	192	0	129.113
GWC-8A	192	0	125.37
GWC-8R	192	0	125.37
GWC-16A	208.333	16.3333	125.37
GWC-4	192	0	152.323
GWC-4A	192	0	125.37

Kruskal-Wallis Non-Parametric Test

Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/14/2016	36	245
	12/9/2016	ND<10	63
	6/16/2017	26	181
	12/12/2017	25	172
	6/20/2018	23	153
	12/18/2018	32	216
	6/12/2019	23	154
	12/12/2019	39.5	263
	6/23/2020	20	126
	12/18/2020	22	142
	6/16/2021	24.2	167
	12/14/2021	24.9	171
Rank Sum = 2053			
Rank Mean = 171.083			
GWA-1	6/15/2016	29	198
	12/8/2016	26	182
	6/14/2017	28	192
	12/12/2017	27	187
	6/20/2018	32	217
	12/18/2018	28	193
	6/11/2019	28	194
	12/10/2019	20.9	135
	6/24/2020	22.3	150
	12/18/2020	27	188
	6/16/2021	26.1	185
	12/14/2021	24.1	166
Rank Sum = 2187			
Rank Mean = 182.25			

Background Rank Sum = 4240
Background Rank Mean = 176.667

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/14/2016	35	236
	12/7/2016	33	224
	6/12/2017	36	246
	12/13/2017	33	225
	6/20/2018	30	204
	12/18/2018	32	218
	6/10/2019	41	269
	12/9/2019	30	205
	6/23/2020	30.3	207
	12/17/2020	31.9	215
	6/17/2021	37.4	254
	12/16/2021	32.3	220
Rank Sum = 2723			
Rank Mean = 226.917			

GWA-3	6/14/2016	ND<10	63
	12/9/2016	ND<10	63
	6/15/2017	ND<10	63
	12/12/2017	ND<10	63
	6/19/2018	ND<10	63
	12/18/2018	ND<10	63
	6/12/2019	ND<10	63
	12/11/2019	22.9	152
	6/23/2020	ND<10	63
	12/17/2020	ND<10	63
	6/15/2021	ND<10	63
	12/15/2021	ND<10	63
Rank Sum = 845			
Rank Mean = 70.4167			
GWC-17	6/14/2016	38	255
	6/15/2017	45	279
	12/13/2017	35	237
	6/20/2018	34	232
	12/20/2018	69	313
	6/13/2019	43	276
	12/11/2019	37.1	252
	6/24/2020	30.9	209
	12/16/2020	40.7	267
	6/15/2021	38.3	259
	12/15/2021	39.2	262
Rank Sum = 2841			
Rank Mean = 258.273			
GWC-18	6/14/2016	250	363
	12/7/2016	180	353
	6/15/2017	180	354
	12/14/2017	150	341
	6/20/2018	280	364
	12/19/2018	140	339
	6/12/2019	230	362
	12/10/2019	181	357
	6/24/2020	168	345
	12/16/2020	160	342
	6/15/2021	165	344
	12/15/2021	141	340
Rank Sum = 4204			
Rank Mean = 350.333			
GWC-24	6/14/2016	27	189
	6/15/2017	ND<10	63
	6/20/2018	ND<10	63
	6/12/2019	20	127
	12/10/2019	27.4	190
	6/25/2020	25.8	179
	6/15/2021	ND<10	63
Rank Sum = 874			
Rank Mean = 124.857			
GWC-10	6/15/2016	21	136
	12/9/2016	20	128
	6/16/2017	20	129
	12/13/2017	48	286
	6/20/2018	ND<10	63
	12/18/2018	ND<10	63

	6/11/2019	22	143
	12/13/2019	ND<10	63
	6/25/2020	ND<10	63
	12/16/2020	ND<10	63
	6/16/2021	ND<10	63
	12/16/2021	ND<10	63

Rank Sum = 1263
Rank Mean = 105.25

GWC-10A	6/15/2016	29	199
	12/9/2016	31	210
	6/16/2017	31	211
	12/13/2017	32	219
	6/20/2018	34	233
	12/18/2018	35	238
	6/11/2019	33	226
	12/13/2019	35.2	242
	6/25/2020	29.6	202
	12/16/2020	32.5	221
	6/16/2021	31.5	212
	12/16/2021	33.5	230

Rank Sum = 2643
Rank Mean = 220.25

GWC-11	6/15/2016	24	160
	12/8/2016	22	144
	6/15/2017	24	161
	12/14/2017	42	272
	6/20/2018	21	137
	12/20/2018	ND<10	63
	6/13/2019	40	264
	12/13/2019	35.9	244
	6/25/2020	25.9	180
	12/16/2020	25.4	177
	6/16/2021	22.1	148
	12/14/2021	23.3	157

Rank Sum = 2107
Rank Mean = 175.583

GWC-12	6/15/2016	20	130
	12/8/2016	ND<10	63
	6/15/2017	ND<10	63
	12/14/2017	ND<10	63
	6/20/2018	ND<10	63
	12/20/2018	34	234
	6/12/2019	20	131
	12/10/2019	ND<10	63
	6/25/2020	ND<10	63
	12/22/2020	22.6	151
	6/16/2021	ND<10	63
	12/14/2021	ND<10	63

Rank Sum = 1150
Rank Mean = 95.8333

GWC-12A	6/15/2016	ND<10	63
	12/8/2016	ND<10	63
	6/15/2017	ND<10	63
	12/14/2017	ND<10	63
	6/20/2018	ND<10	63
	12/20/2018	ND<10	63
	6/12/2019	ND<10	63

	12/10/2019	ND<10	63
	6/25/2020	ND<10	63
	12/16/2020	ND<10	63
	6/16/2021	ND<10	63
	12/14/2021	ND<10	63

Rank Sum = 756
Rank Mean = 63

GWC-14	6/15/2016	26	183
	6/21/2018	35	239
	6/12/2019	35	240
	12/11/2019	41.2	270
	6/25/2020	ND<10	63
	12/18/2020	72.2	315
	6/16/2021	24	162
	12/16/2021	47.3	285

Rank Sum = 1757
Rank Mean = 219.625

GWC-2	6/15/2016	ND<10	63
	12/9/2016	ND<10	63
	6/16/2017	ND<10	63
	12/14/2017	ND<10	63
	6/21/2018	ND<10	63
	12/20/2018	ND<10	63
	6/13/2019	ND<10	63
	12/11/2019	ND<10	63
	6/23/2020	27.5	191
	12/17/2020	ND<10	63
	6/16/2021	ND<10	63
	12/16/2021	ND<10	63

Rank Sum = 884
Rank Mean = 73.6667

GWC-23A	6/15/2016	20	132
	12/7/2016	ND<10	63
	6/15/2017	ND<10	63
	12/12/2017	ND<10	63
	6/19/2018	ND<10	63
	12/19/2018	ND<10	63
	6/13/2019	ND<10	63
	12/12/2019	ND<10	63
	6/24/2020	ND<10	63
	12/17/2020	ND<10	63
	6/15/2021	ND<10	63
	12/14/2021	ND<10	63

Rank Sum = 825
Rank Mean = 68.75

GWC-3	6/15/2016	ND<10	63
	6/21/2018	ND<10	63
	12/18/2018	ND<10	63
	6/12/2019	ND<10	63
	12/11/2019	ND<10	63
	6/25/2020	ND<10	63
	12/17/2020	ND<10	63
	6/16/2021	ND<10	63
	12/16/2021	ND<10	63

Rank Sum = 567
Rank Mean = 63

GWC-3A	6/15/2016	38	256
	12/9/2016	43	277
	6/16/2017	40	265
	12/13/2017	38	257
	6/21/2018	39	261
	12/18/2018	38	258
	6/12/2019	46	280
	12/11/2019	40.7	268
	6/25/2020	37.1	253
	12/17/2020	31.6	214
	6/15/2021	36.5	249
	12/16/2021	32.8	223

Rank Sum = 3061
Rank Mean = 255.083

GWC-5	6/15/2016	ND<10	63
	12/9/2016	ND<10	63
	6/13/2017	ND<10	63
	12/13/2017	ND<10	63
	6/21/2018	ND<10	63
	12/19/2018	ND<10	63
	6/13/2019	ND<10	63
	12/11/2019	ND<10	63
	6/24/2020	ND<10	63
	12/18/2020	ND<10	63
	6/16/2021	ND<10	63
	12/14/2021	ND<10	63

Rank Sum = 756
Rank Mean = 63

GWC-6	6/15/2016	ND<10	63
	12/9/2016	ND<10	63
	6/13/2017	ND<10	63
	12/14/2017	ND<10	63
	6/21/2018	37	251
	12/20/2018	ND<10	63
	6/13/2019	ND<10	63
	12/11/2019	ND<10	63
	6/25/2020	ND<10	63
	12/18/2020	ND<10	63
	6/16/2021	ND<10	63
	12/14/2021	ND<10	63

Rank Sum = 944
Rank Mean = 78.6667

GWC-9	6/15/2016	80	321
	12/9/2016	67	311
	6/16/2017	58	302
	12/14/2017	54	297
	6/21/2018	73	316
	12/19/2018	53	296
	6/13/2019	80	322
	12/13/2019	67.9	312
	6/25/2020	78.5	320
	12/18/2020	90	329
	6/16/2021	64.3	309
	12/14/2021	100	335

Rank Sum = 3770
Rank Mean = 314.167

GWC-13	6/16/2016	ND<10	63

	12/8/2016	ND<10	63
	6/15/2017	ND<10	63
	12/13/2017	ND<10	63
	6/20/2018	36	247
	12/20/2018	ND<10	63
	6/13/2019	ND<10	63
	12/12/2019	32.7	222
	6/24/2020	ND<10	63
	12/16/2020	ND<10	63
	6/16/2021	ND<10	63
	12/16/2021	ND<10	63

Rank Sum = 1099
Rank Mean = 91.5833

GWC-14A	6/16/2016	200	359
	12/8/2016	220	361
	6/13/2017	210	360
	12/13/2017	180	355
	6/21/2018	190	358
	12/19/2018	180	356
	6/12/2019	170	346
	12/11/2019	170	347
	6/24/2020	171	349
	12/16/2020	171	350
	6/16/2021	173	351
	12/15/2021	179	352

Rank Sum = 4244
Rank Mean = 353.667

GWC-15	6/16/2016	61	307
	12/8/2016	60	305
	6/14/2017	120	336
	12/14/2017	99	334
	6/20/2018	98	333
	12/19/2018	58	303
	6/11/2019	60	306
	12/10/2019	42.3	274
	6/25/2020	62.7	308
	12/17/2020	54.7	298
	6/16/2021	69.4	314
	12/14/2021	73.4	317

Rank Sum = 3735
Rank Mean = 311.25

GWC-19R	6/16/2016	93	330
	12/7/2016	130	338
	6/15/2017	97	331
	12/14/2017	120	337
	6/20/2018	81	323
	12/19/2018	160	343
	6/12/2019	97	332
	12/10/2019	89.2	328
	6/24/2020	83	326
	12/16/2020	76.5	319
	6/15/2021	82.2	325
	12/15/2021	87	327

Rank Sum = 3959
Rank Mean = 329.917

GWC-22	6/16/2016	25	173
	12/7/2016	23	155

	6/15/2017	28	195
	12/12/2017	ND<10	63
	6/20/2018	24	163
	12/19/2018	21	138
	6/13/2019	21	139
	12/12/2019	21.5	141
	6/24/2020	22.1	149
	12/18/2020	20.4	134
	6/15/2021	28	196
	12/14/2021	24.6	170
Rank Sum = 1816			
Rank Mean = 151.333			
GWC-23	6/16/2016	ND<10	63
	12/7/2016	ND<10	63
	6/15/2017	ND<10	63
	12/12/2017	ND<10	63
	6/19/2018	ND<10	63
	12/19/2018	ND<10	63
	6/13/2019	ND<10	63
	12/12/2019	ND<10	63
	6/24/2020	ND<10	63
	12/17/2020	ND<10	63
	6/15/2021	ND<10	63
	12/14/2021	ND<10	63
Rank Sum = 756			
Rank Mean = 63			
GWC-7	6/16/2016	46	281
	12/9/2016	46	282
	6/13/2017	52	293
	12/13/2017	46	283
	6/20/2018	49	288
	12/19/2018	51	291
	6/13/2019	48	287
	12/12/2019	49.9	290
	6/25/2020	36.4	248
	12/18/2020	38.8	260
	6/16/2021	36.9	250
	12/14/2021	41.8	271
Rank Sum = 3324			
Rank Mean = 277			
GWC-8	6/16/2016	22	145
	12/9/2016	22	146
	12/13/2017	23	156
	6/21/2018	ND<10	63
	6/13/2019	30	206
	12/12/2019	28.6	197
	6/24/2020	52.4	294
	12/17/2020	33	227
	6/17/2021	42.5	275
	12/16/2021	33.5	231
Rank Sum = 1940			
Rank Mean = 194			
GWC-8A	6/16/2016	40	266
	12/9/2016	55	299
	6/14/2017	66	310
	12/13/2017	42	273
	6/21/2018	51	292

	12/20/2018	55	300
	6/13/2019	33	228
	12/12/2019	56	301
	6/24/2020	43.9	278
	12/16/2020	46.8	284
	6/17/2021	52.4	295
	12/16/2021	49.7	289
Rank Sum = 3415			
Rank Mean = 284.583			
GWC-16A	6/17/2016	29	200
	12/8/2016	35	241
	6/15/2017	170	348
	12/14/2017	29	201
	6/21/2018	34	235
	12/20/2018	24	164
	6/13/2019	26	184
	12/12/2019	26.7	186
	6/23/2020	23.6	158
	12/17/2020	25.2	176
	6/16/2021	24.3	168
	12/16/2021	23.6	159
Rank Sum = 2420			
Rank Mean = 201.667			
GWC-4	6/17/2016	24	165
	12/8/2016	25	174
	6/21/2018	20	133
	6/24/2020	25.6	178
	12/18/2020	31.5	213
	6/17/2021	24.5	169
	12/15/2021	21	140
Rank Sum = 1172			
Rank Mean = 167.429			
GWC-4A	6/17/2016	ND<10	63
	12/8/2016	59	304
	6/14/2017	33	229
	12/13/2017	81	324
	6/21/2018	22	147
	12/18/2018	25	175
	6/12/2019	74	318
	12/12/2019	ND<10	63
	6/24/2020	29.9	203
	12/18/2020	30.5	208
	6/18/2021	35.7	243
	12/16/2021	ND<10	63
Rank Sum = 2340			
Rank Mean = 195			

Calculation Results:

Kruskal-Wallis H Statistic = 297.543

Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 310.101

95% Confidence comparison value is 43.773 at 30 degrees of freedom

297.543 > 43.773 indicating a significant group difference at 5% significance level

310.101 > 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 176.667

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	226.917	50.25	86.5436
GWA-3	70.4167	-106.25	86.5436
GWC-17	258.273	81.6061	89.1276
GWC-18	**350.333**	**173.667**	**86.5436**
GWC-24	124.857	-51.8095	105.149
GWC-10	105.25	-71.4167	86.5436
GWC-10A	220.25	43.5833	86.5436
GWC-11	175.583	-1.08333	86.5436
GWC-12	95.8333	-80.8333	86.5436
GWC-12A	63	-113.667	86.5436
GWC-14	219.625	42.9583	99.932
GWC-2	73.6667	-103	86.5436
GWC-23A	68.75	-107.917	86.5436
GWC-3	63	-113.667	95.6776
GWC-3A	255.083	78.4167	86.5436
GWC-5	63	-113.667	86.5436
GWC-6	78.6667	-98	86.5436
GWC-9	**314.167**	**137.5**	**86.5436**
GWC-13	91.5833	-85.0833	86.5436
GWC-14A	**353.667**	**177**	**86.5436**
GWC-15	**311.25**	**134.583**	**86.5436**
GWC-19R	**329.917**	**153.25**	**86.5436**
GWC-22	151.333	-25.3333	86.5436
GWC-23	63	-113.667	86.5436
GWC-7	**277**	**100.333**	**86.5436**
GWC-8	194	17.3333	92.1327
GWC-8A	**284.583**	**107.917**	**86.5436**
GWC-16A	201.667	25	86.5436
GWC-4	167.429	-9.2381	105.149
GWC-4A	195	18.3333	86.5436

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 176.667

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	226.917	50.25	114.962
GWA-3	70.4167	-106.25	114.962
GWC-17	258.273	81.6061	118.394
GWC-18	**350.333**	**173.667**	**114.962**
GWC-24	124.857	-51.8095	139.677
GWC-10	105.25	-71.4167	114.962
GWC-10A	220.25	43.5833	114.962
GWC-11	175.583	-1.08333	114.962
GWC-12	95.8333	-80.8333	114.962
GWC-12A	63	-113.667	114.962
GWC-14	219.625	42.9583	132.747
GWC-2	73.6667	-103	114.962
GWC-23A	68.75	-107.917	114.962
GWC-3	63	-113.667	127.095
GWC-3A	255.083	78.4167	114.962
GWC-5	63	-113.667	114.962
GWC-6	78.6667	-98	114.962
GWC-9	**314.167**	**137.5**	**114.962**
GWC-13	91.5833	-85.0833	114.962
GWC-14A	**353.667**	**177**	**114.962**
GWC-15	**311.25**	**134.583**	**114.962**
GWC-19R	**329.917**	**153.25**	**114.962**
GWC-22	151.333	-25.3333	114.962

GWC-23	63	-113.667	114.962
GWC-7	277	100.333	114.962
GWC-8	194	17.3333	122.386
GWC-8A	284.583	107.917	114.962
GWC-16A	201.667	25	114.962
GWC-4	167.429	-9.2381	139.677
GWC-4A	195	18.3333	114.962

Kruskal-Wallis Non-Parametric Test

Parameter: Chromium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/14/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/12/2019	ND<5	180
	6/23/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWA-1	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/11/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

Background Rank Sum = 4320
Background Rank Mean = 180

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/14/2016	ND<5	180
	12/7/2016	ND<5	180
	6/12/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/10/2019	ND<5	180
	12/9/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180
	6/17/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

GWA-3	6/14/2016	ND<5	180
	12/9/2016	ND<5	180
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180
	6/15/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-17	6/14/2016	ND<5	180
	6/15/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/15/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 1980			
Rank Mean = 180			
GWC-18	6/14/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/15/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-24	6/14/2016	ND<5	180
	6/15/2017	ND<5	180
	6/20/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	6/15/2021	ND<5	180
Rank Sum = 1260			
Rank Mean = 180			
GWC-10	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180

	6/11/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-10A	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/18/2018	ND<5	180
	6/11/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-11	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-12	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/22/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-12A	6/15/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/12/2019	ND<5	180

	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	18.4	362

Rank Sum = 2342
Rank Mean = 195.167

GWC-14	6/15/2016	ND<5	180
	6/21/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180

Rank Sum = 1440
Rank Mean = 180

GWC-2	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-23A	6/15/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180
	6/15/2021	ND<5	180
	12/14/2021	ND<5	180

Rank Sum = 2160
Rank Mean = 180

GWC-3	6/15/2016	ND<5	180
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180

Rank Sum = 1620
Rank Mean = 180

GWC-3A	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180
	6/15/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-5	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-6	6/15/2016	12	361
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/11/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2341			
Rank Mean = 195.083			
GWC-9	6/15/2016	ND<5	180
	12/9/2016	ND<5	180
	6/16/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/13/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-13	6/16/2016	ND<5	180

	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-14A	6/16/2016	ND<5	180
	12/8/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/11/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/16/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-15	6/16/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/11/2019	ND<5	180
	12/10/2019	ND<5	180
	6/25/2020	ND<5	180
	12/17/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-19R	6/16/2016	ND<5	180
	12/7/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/12/2019	ND<5	180
	12/10/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/15/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			
GWC-22	6/16/2016	ND<5	180
	12/7/2016	ND<5	180

	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
	6/15/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

GWC-23	6/16/2016	ND<5	180
	12/7/2016	11	360
	6/15/2017	ND<5	180
	12/12/2017	ND<5	180
	6/19/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180
	6/15/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2340			
Rank Mean = 195			

GWC-7	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	6/13/2017	ND<5	180
	12/13/2017	ND<5	180
	6/20/2018	ND<5	180
	12/19/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/25/2020	ND<5	180
	12/18/2020	ND<5	180
	6/16/2021	ND<5	180
	12/14/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

GWC-8	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/17/2020	ND<5	180
	6/17/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 1800			
Rank Mean = 180			

GWC-8A	6/16/2016	ND<5	180
	12/9/2016	ND<5	180
	6/14/2017	ND<5	180
	12/13/2017	ND<5	180
	6/21/2018	ND<5	180

	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/16/2020	ND<5	180
	6/17/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

GWC-16A	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/15/2017	ND<5	180
	12/14/2017	ND<5	180
	6/21/2018	ND<5	180
	12/20/2018	ND<5	180
	6/13/2019	ND<5	180
	12/12/2019	ND<5	180
	6/23/2020	ND<5	180
	12/17/2020	ND<5	180
	6/16/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2160			
Rank Mean = 180			

GWC-4	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/21/2018	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
	6/17/2021	ND<5	180
	12/15/2021	ND<5	180
Rank Sum = 1260			
Rank Mean = 180			

GWC-4A	6/17/2016	ND<5	180
	12/8/2016	ND<5	180
	6/14/2017	ND<5	180
	12/13/2017	19	363
	6/21/2018	ND<5	180
	12/18/2018	ND<5	180
	6/12/2019	26	364
	12/12/2019	ND<5	180
	6/24/2020	ND<5	180
	12/18/2020	ND<5	180
	6/18/2021	ND<5	180
	12/16/2021	ND<5	180
Rank Sum = 2527			
Rank Mean = 210.583			

Calculation Results:

Kruskal-Wallis H Statistic = 1.54805
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 38.0866
95% Confidence comparison value is 43.773 at 30 degrees of freedom
1.54805 < 43.773 indicating no significant group difference at 5% significance level
38.0866 < 43.773 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/14/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/12/2019	ND<20	170
	6/23/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWA-1	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/11/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			

Background Rank Sum = 4080
Background Rank Mean = 170

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/14/2016	ND<20	170
	12/7/2016	ND<20	170
	6/12/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/10/2019	ND<20	170
	12/9/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170
	6/17/2021	ND<20	170
	12/16/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			

GWA-3	6/14/2016	ND<20	170
	12/9/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170
	6/15/2021	ND<20	170
	12/15/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-17	6/14/2016	ND<20	170
	6/15/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170
	6/15/2021	ND<20	170
	12/15/2021	ND<20	170
Rank Sum = 1870			
Rank Mean = 170			
GWC-18	6/14/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170
	6/15/2021	ND<20	170
	12/15/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-24	6/14/2016	ND<20	170
	6/15/2017	ND<20	170
	6/20/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	6/15/2021	ND<20	170
Rank Sum = 1190			
Rank Mean = 170			
GWC-10	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170

	6/11/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-10A	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/18/2018	ND<20	170
	6/11/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-11	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-12	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/22/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-12A	6/15/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/12/2019	ND<20	170

	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/16/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-14	6/15/2016	88	351
	6/21/2018	42	341
	6/12/2019	57	348
	12/11/2019	50.3	346
	6/25/2020	95.1	352
	12/18/2020	55.5	347
	6/16/2021	87.6	350
	12/16/2021	ND<20	170

Rank Sum = 2605
Rank Mean = 325.625

GWC-2	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-23A	6/15/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170
	6/15/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-3	6/15/2016	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 1530
Rank Mean = 170

GWC-3A	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170
	6/15/2021	ND<20	170
	12/16/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-5	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-6	6/15/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/11/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-9	6/15/2016	50	345
	12/9/2016	ND<20	170
	6/16/2017	ND<20	170
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/13/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2215			
Rank Mean = 184.583			
GWC-13	6/16/2016	ND<20	170

	12/8/2016	ND<20	170
	6/15/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-14A	6/16/2016	490	364
	12/8/2016	380	363
	6/13/2017	370	362
	12/13/2017	280	355
	6/21/2018	310	360
	12/19/2018	290	356
	6/12/2019	330	361
	12/11/2019	228	354
	6/24/2020	301	358
	12/16/2020	298	357
	6/16/2021	306	359
	12/15/2021	192	353
Rank Sum = 4302			
Rank Mean = 358.5			
GWC-15	6/16/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/11/2019	ND<20	170
	12/10/2019	ND<20	170
	6/25/2020	ND<20	170
	12/17/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170
Rank Sum = 2040			
Rank Mean = 170			
GWC-19R	6/16/2016	47	344
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/14/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/12/2019	ND<20	170
	12/10/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170
	6/15/2021	45.2	343
	12/15/2021	40.4	340
Rank Sum = 2557			
Rank Mean = 213.083			
GWC-22	6/16/2016	ND<20	170
	12/7/2016	ND<20	170

	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
	6/15/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-23	6/16/2016	ND<20	170
	12/7/2016	ND<20	170
	6/15/2017	ND<20	170
	12/12/2017	ND<20	170
	6/19/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170
	6/15/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-7	6/16/2016	ND<20	170
	12/9/2016	ND<20	170
	6/13/2017	ND<20	170
	12/13/2017	ND<20	170
	6/20/2018	ND<20	170
	12/19/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/25/2020	ND<20	170
	12/18/2020	ND<20	170
	6/16/2021	ND<20	170
	12/14/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

GWC-8	6/16/2016	ND<20	170
	12/9/2016	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/17/2020	ND<20	170
	6/17/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 1700
Rank Mean = 170

GWC-8A	6/16/2016	ND<20	170
	12/9/2016	44	342
	6/14/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170

	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/16/2020	ND<20	170
	6/17/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2212
Rank Mean = 184.333

GWC-16A	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/15/2017	81	349
	12/14/2017	ND<20	170
	6/21/2018	ND<20	170
	12/20/2018	ND<20	170
	6/13/2019	ND<20	170
	12/12/2019	ND<20	170
	6/23/2020	ND<20	170
	12/17/2020	ND<20	170
	6/16/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2219
Rank Mean = 184.917

GWC-4	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/21/2018	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
	6/17/2021	ND<20	170
	12/15/2021	ND<20	170

Rank Sum = 1190
Rank Mean = 170

GWC-4A	6/17/2016	ND<20	170
	12/8/2016	ND<20	170
	6/14/2017	ND<20	170
	12/13/2017	ND<20	170
	6/21/2018	ND<20	170
	12/18/2018	ND<20	170
	6/12/2019	ND<20	170
	12/12/2019	ND<20	170
	6/24/2020	ND<20	170
	12/18/2020	ND<20	170
	6/18/2021	ND<20	170
	12/16/2021	ND<20	170

Rank Sum = 2040
Rank Mean = 170

Calculation Results:
Kruskal-Wallis H Statistic = 53.5806
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 278.75
95% Confidence comparison value is 43.773 at 30 degrees of freedom
53.5806 > 43.773 indicating a significant group difference at 5% significance level
278.75 > 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 170

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	170	0	86.5436
GWA-3	170	0	86.5436
GWC-17	170	0	89.1276
GWC-18	170	0	86.5436
GWC-24	170	0	105.149
GWC-10	170	0	86.5436
GWC-10A	170	0	86.5436
GWC-11	170	0	86.5436
GWC-12	170	0	86.5436
GWC-12A	170	0	86.5436
GWC-14	**325.625**	**155.625**	**99.932**
GWC-2	170	0	86.5436
GWC-23A	170	0	86.5436
GWC-3	170	0	95.6776
GWC-3A	170	0	86.5436
GWC-5	170	0	86.5436
GWC-6	170	0	86.5436
GWC-9	184.583	14.5833	86.5436
GWC-13	170	0	86.5436
GWC-14A	**358.5**	**188.5**	**86.5436**
GWC-15	170	0	86.5436
GWC-19R	213.083	43.0833	86.5436
GWC-22	170	0	86.5436
GWC-23	170	0	86.5436
GWC-7	170	0	86.5436
GWC-8	170	0	92.1327
GWC-8A	184.333	14.3333	86.5436
GWC-16A	184.917	14.9167	86.5436
GWC-4	170	0	105.149
GWC-4A	170	0	86.5436

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 170

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	170	0	114.962
GWA-3	170	0	114.962
GWC-17	170	0	118.394
GWC-18	170	0	114.962
GWC-24	170	0	139.677
GWC-10	170	0	114.962
GWC-10A	170	0	114.962
GWC-11	170	0	114.962
GWC-12	170	0	114.962
GWC-12A	170	0	114.962
GWC-14	**325.625**	**155.625**	**132.747**
GWC-2	170	0	114.962
GWC-23A	170	0	114.962
GWC-3	170	0	127.095
GWC-3A	170	0	114.962
GWC-5	170	0	114.962
GWC-6	170	0	114.962
GWC-9	184.583	14.5833	114.962
GWC-13	170	0	114.962
GWC-14A	**358.5**	**188.5**	**114.962**
GWC-15	170	0	114.962
GWC-19R	213.083	43.0833	114.962
GWC-22	170	0	114.962

GWC-23	170	0	114.962
GWC-7	170	0	114.962
GWC-8	170	0	122.386
GWC-8A	184.333	14.3333	114.962
GWC-16A	184.917	14.9167	114.962
GWC-4	170	0	139.677
GWC-4A	170	0	114.962

Kruskal-Wallis Non-Parametric Test

Parameter: Nickel
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/14/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/23/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWA-1	6/15/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/14/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/11/2019	ND<10	174.5
	12/10/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			

Background Rank Sum = 4188
Background Rank Mean = 174.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/14/2016	ND<10	174.5
	12/7/2016	ND<10	174.5
	6/12/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/10/2019	ND<10	174.5
	12/9/2019	ND<10	174.5
	6/23/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/17/2021	ND<10	174.5
	12/16/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			

GWA-3	6/14/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/19/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/23/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/15/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-17	6/14/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/15/2021	ND<10	174.5
Rank Sum = 1919.5			
Rank Mean = 174.5			
GWC-18	6/14/2016	ND<10	174.5
	12/7/2016	64	364
	6/15/2017	34	363
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/12/2019	24	356
	12/10/2019	29.8	361
	6/24/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/15/2021	33.7	362
Rank Sum = 3027.5			
Rank Mean = 252.292			
GWC-24	6/14/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/10/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
Rank Sum = 1221.5			
Rank Mean = 174.5			
GWC-10	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/18/2018	ND<10	174.5

	6/11/2019	ND<10	174.5
	12/13/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-10A	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/11/2019	ND<10	174.5
	12/13/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-11	6/15/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/13/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-12	6/15/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/10/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/22/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-12A	6/15/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/12/2019	ND<10	174.5

	12/10/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-14	6/15/2016	ND<10	174.5
	6/21/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 1396
Rank Mean = 174.5

GWC-2	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/23/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-23A	6/15/2016	ND<10	174.5
	12/7/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/19/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-3	6/15/2016	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 1570.5
Rank Mean = 174.5

GWC-3A	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/16/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-5	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/13/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-6	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/13/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/11/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-9	6/15/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/16/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/13/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-13	6/16/2016	ND<10	174.5

	12/8/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-14A	6/16/2016	28	360
	12/8/2016	27	359
	6/13/2017	24	357
	12/13/2017	21	350
	6/21/2018	24	358
	12/19/2018	20	349
	6/12/2019	21	351
	12/11/2019	ND<10	174.5
	6/24/2020	22.2	353
	12/16/2020	23.6	355
	6/16/2021	22.2	354
	12/15/2021	ND<10	174.5
Rank Sum = 3895			
Rank Mean = 324.583			
GWC-15	6/16/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/14/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/11/2019	ND<10	174.5
	12/10/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-19R	6/16/2016	ND<10	174.5
	12/7/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/12/2019	ND<10	174.5
	12/10/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/15/2021	ND<10	174.5
Rank Sum = 2094			
Rank Mean = 174.5			
GWC-22	6/16/2016	ND<10	174.5
	12/7/2016	ND<10	174.5

	6/15/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-23	6/16/2016	ND<10	174.5
	12/7/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/12/2017	ND<10	174.5
	6/19/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/15/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-7	6/16/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/13/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/20/2018	ND<10	174.5
	12/19/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/25/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/14/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-8	6/16/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/17/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 1745
Rank Mean = 174.5

GWC-8A	6/16/2016	ND<10	174.5
	12/9/2016	ND<10	174.5
	6/14/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/21/2018	ND<10	174.5

	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/16/2020	ND<10	174.5
	6/17/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-16A	6/17/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/15/2017	ND<10	174.5
	12/14/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/20/2018	ND<10	174.5
	6/13/2019	ND<10	174.5
	12/12/2019	ND<10	174.5
	6/23/2020	ND<10	174.5
	12/17/2020	ND<10	174.5
	6/16/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2094
Rank Mean = 174.5

GWC-4	6/17/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/21/2018	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/17/2021	ND<10	174.5
	12/15/2021	ND<10	174.5

Rank Sum = 1221.5
Rank Mean = 174.5

GWC-4A	6/17/2016	ND<10	174.5
	12/8/2016	ND<10	174.5
	6/14/2017	ND<10	174.5
	12/13/2017	ND<10	174.5
	6/21/2018	ND<10	174.5
	12/18/2018	ND<10	174.5
	6/12/2019	22	352
	12/12/2019	ND<10	174.5
	6/24/2020	ND<10	174.5
	12/18/2020	ND<10	174.5
	6/18/2021	ND<10	174.5
	12/16/2021	ND<10	174.5

Rank Sum = 2271.5
Rank Mean = 189.292

Calculation Results:
Kruskal-Wallis H Statistic = 29.1057
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 230.709
95% Confidence comparison value is 43.773 at 30 degrees of freedom
29.1057 < 43.773 indicating no significant group difference at 5% significance level
230.709 > 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 174.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	174.5	0	86.5436
GWA-3	174.5	0	86.5436
GWC-17	174.5	0	89.1276
GWC-18	252.292	77.7917	86.5436
GWC-24	174.5	0	105.149
GWC-10	174.5	0	86.5436
GWC-10A	174.5	0	86.5436
GWC-11	174.5	0	86.5436
GWC-12	174.5	0	86.5436
GWC-12A	174.5	0	86.5436
GWC-14	174.5	0	99.932
GWC-2	174.5	0	86.5436
GWC-23A	174.5	0	86.5436
GWC-3	174.5	0	95.6776
GWC-3A	174.5	0	86.5436
GWC-5	174.5	0	86.5436
GWC-6	174.5	0	86.5436
GWC-9	174.5	0	86.5436
GWC-13	174.5	0	86.5436
GWC-14A	**324.583**	**150.083**	**86.5436**
GWC-15	174.5	0	86.5436
GWC-19R	174.5	0	86.5436
GWC-22	174.5	0	86.5436
GWC-23	174.5	0	86.5436
GWC-7	174.5	0	86.5436
GWC-8	174.5	0	92.1327
GWC-8A	174.5	0	86.5436
GWC-16A	174.5	0	86.5436
GWC-4	174.5	0	105.149
GWC-4A	189.292	14.7917	86.5436

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 174.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	174.5	0	114.962
GWA-3	174.5	0	114.962
GWC-17	174.5	0	118.394
GWC-18	252.292	77.7917	114.962
GWC-24	174.5	0	139.677
GWC-10	174.5	0	114.962
GWC-10A	174.5	0	114.962
GWC-11	174.5	0	114.962
GWC-12	174.5	0	114.962
GWC-12A	174.5	0	114.962
GWC-14	174.5	0	132.747
GWC-2	174.5	0	114.962
GWC-23A	174.5	0	114.962
GWC-3	174.5	0	127.095
GWC-3A	174.5	0	114.962
GWC-5	174.5	0	114.962
GWC-6	174.5	0	114.962
GWC-9	174.5	0	114.962
GWC-13	174.5	0	114.962
GWC-14A	**324.583**	**150.083**	**114.962**
GWC-15	174.5	0	114.962
GWC-19R	174.5	0	114.962
GWC-22	174.5	0	114.962

GWC-23	174.5	0	114.962
GWC-7	174.5	0	114.962
GWC-8	174.5	0	122.386
GWC-8A	174.5	0	114.962
GWC-16A	174.5	0	114.962
GWC-4	174.5	0	139.677
GWC-4A	189.292	14.7917	114.962

Kruskal-Wallis Non-Parametric Test

Parameter: Zinc
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-2	6/14/2016	20	266
	12/9/2016	ND<10	133
	6/16/2017	ND<10	133
	12/12/2017	ND<10	133
	6/20/2018	ND<10	133
	12/18/2018	ND<10	133
	6/12/2019	30	315
	12/12/2019	25.9	300
	6/23/2020	ND<10	133
	12/18/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133
Rank Sum = 2078			
Rank Mean = 173.167			
GWA-1	6/15/2016	31	319
	12/8/2016	20	267
	6/14/2017	23	283
	12/12/2017	38	327
	6/20/2018	48	346
	12/18/2018	44	341
	6/11/2019	42	337
	12/10/2019	30.4	317
	6/24/2020	30.7	318
	12/18/2020	21.1	279
	6/16/2021	21.6	280
	12/14/2021	22.3	282
Rank Sum = 3696			
Rank Mean = 308			

Background Rank Sum = 5774
Background Rank Mean = 240.583

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	6/14/2016	ND<10	133
	12/7/2016	ND<10	133
	6/12/2017	ND<10	133
	12/13/2017	24	290
	6/20/2018	ND<10	133
	12/18/2018	ND<10	133
	6/10/2019	ND<10	133
	12/9/2019	ND<10	133
	6/23/2020	ND<10	133
	12/17/2020	ND<10	133
	6/17/2021	ND<10	133
	12/16/2021	ND<10	133
Rank Sum = 1753			
Rank Mean = 146.083			

GWA-3	6/14/2016	ND<10	133
	12/9/2016	ND<10	133
	6/15/2017	ND<10	133
	12/12/2017	ND<10	133
	6/19/2018	41	333
	12/18/2018	ND<10	133
	6/12/2019	ND<10	133
	12/11/2019	71.5	356
	6/23/2020	20.3	274
	12/17/2020	ND<10	133
	6/15/2021	ND<10	133
	12/15/2021	ND<10	133
Rank Sum = 2160			
Rank Mean = 180			
GWC-17	6/14/2016	ND<10	133
	6/15/2017	20	268
	12/13/2017	ND<10	133
	6/20/2018	ND<10	133
	12/20/2018	27	307
	6/13/2019	24	291
	12/11/2019	ND<10	133
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/15/2021	ND<10	133
	12/15/2021	ND<10	133
Rank Sum = 1930			
Rank Mean = 175.455			
GWC-18	6/14/2016	ND<10	133
	12/7/2016	49	347
	6/15/2017	21	276
	12/14/2017	29	314
	6/20/2018	ND<10	133
	12/19/2018	26	301
	6/12/2019	ND<10	133
	12/10/2019	38.7	331
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/15/2021	ND<10	133
	12/15/2021	ND<10	133
Rank Sum = 2500			
Rank Mean = 208.333			
GWC-24	6/14/2016	ND<10	133
	6/15/2017	ND<10	133
	6/20/2018	ND<10	133
	6/12/2019	ND<10	133
	12/10/2019	24	292
	6/25/2020	ND<10	133
	6/15/2021	ND<10	133
Rank Sum = 1090			
Rank Mean = 155.714			
GWC-10	6/15/2016	ND<10	133
	12/9/2016	23	284
	6/16/2017	ND<10	133
	12/13/2017	28	311
	6/20/2018	41	334
	12/18/2018	22	281

	6/11/2019	24	293
	12/13/2019	86.4	361
	6/25/2020	27.9	310
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 2839
Rank Mean = 236.583

GWC-10A	6/15/2016	ND<10	133
	12/9/2016	ND<10	133
	6/16/2017	ND<10	133
	12/13/2017	ND<10	133
	6/20/2018	ND<10	133
	12/18/2018	38	328
	6/11/2019	ND<10	133
	12/13/2019	31.2	320
	6/25/2020	ND<10	133
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1978
Rank Mean = 164.833

GWC-11	6/15/2016	ND<10	133
	12/8/2016	ND<10	133
	6/15/2017	ND<10	133
	12/14/2017	ND<10	133
	6/20/2018	26	302
	12/20/2018	ND<10	133
	6/13/2019	34	323
	12/13/2019	23.3	288
	6/25/2020	40	332
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 2309
Rank Mean = 192.417

GWC-12	6/15/2016	ND<10	133
	12/8/2016	ND<10	133
	6/15/2017	ND<10	133
	12/14/2017	ND<10	133
	6/20/2018	ND<10	133
	12/20/2018	ND<10	133
	6/12/2019	ND<10	133
	12/10/2019	ND<10	133
	6/25/2020	ND<10	133
	12/22/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 1596
Rank Mean = 133

GWC-12A	6/15/2016	ND<10	133
	12/8/2016	20	269
	6/15/2017	ND<10	133
	12/14/2017	ND<10	133
	6/20/2018	26	303
	12/20/2018	ND<10	133
	6/12/2019	ND<10	133

	12/10/2019	ND<10	133
	6/25/2020	ND<10	133
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 1902
Rank Mean = 158.5

GWC-14	6/15/2016	20	270
	6/21/2018	67	355
	6/12/2019	ND<10	133
	12/11/2019	27.7	308
	6/25/2020	25.3	299
	12/18/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1764
Rank Mean = 220.5

GWC-2	6/15/2016	ND<10	133
	12/9/2016	ND<10	133
	6/16/2017	ND<10	133
	12/14/2017	ND<10	133
	6/21/2018	ND<10	133
	12/20/2018	23	285
	6/13/2019	28	312
	12/11/2019	25	295
	6/23/2020	27.8	309
	12/17/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 2265
Rank Mean = 188.75

GWC-23A	6/15/2016	ND<10	133
	12/7/2016	ND<10	133
	6/15/2017	ND<10	133
	12/12/2017	ND<10	133
	6/19/2018	ND<10	133
	12/19/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	31.6	321
	6/24/2020	ND<10	133
	12/17/2020	ND<10	133
	6/15/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 1784
Rank Mean = 148.667

GWC-3	6/15/2016	25	296
	6/21/2018	ND<10	133
	12/18/2018	ND<10	133
	6/12/2019	ND<10	133
	12/11/2019	ND<10	133
	6/25/2020	ND<10	133
	12/17/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1360
Rank Mean = 151.111

GWC-3A	6/15/2016	ND<10	133
	12/9/2016	ND<10	133
	6/16/2017	34	324
	12/13/2017	ND<10	133
	6/21/2018	ND<10	133
	12/18/2018	ND<10	133
	6/12/2019	24	294
	12/11/2019	28.8	313
	6/25/2020	33.1	322
	12/17/2020	ND<10	133
	6/15/2021	20.6	275
	12/16/2021	ND<10	133

Rank Sum = 2459
Rank Mean = 204.917

GWC-5	6/15/2016	ND<10	133
	12/9/2016	ND<10	133
	6/13/2017	20	271
	12/13/2017	ND<10	133
	6/21/2018	ND<10	133
	12/19/2018	26	304
	6/13/2019	ND<10	133
	12/11/2019	38.3	330
	6/24/2020	ND<10	133
	12/18/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 2102
Rank Mean = 175.167

GWC-6	6/15/2016	ND<10	133
	12/9/2016	ND<10	133
	6/13/2017	ND<10	133
	12/14/2017	ND<10	133
	6/21/2018	ND<10	133
	12/20/2018	ND<10	133
	6/13/2019	ND<10	133
	12/11/2019	ND<10	133
	6/25/2020	ND<10	133
	12/18/2020	ND<10	133
	6/16/2021	79	359
	12/14/2021	ND<10	133

Rank Sum = 1822
Rank Mean = 151.833

GWC-9	6/15/2016	54	350
	12/9/2016	140	364
	6/16/2017	73	357
	12/14/2017	46	345
	6/21/2018	45	343
	12/19/2018	38	329
	6/13/2019	60	353
	12/13/2019	78	358
	6/25/2020	45.9	344
	12/18/2020	41.9	336
	6/16/2021	41.8	335
	12/14/2021	49.9	348

Rank Sum = 4162
Rank Mean = 346.833

GWC-13	6/16/2016	ND<10	133

	12/8/2016	ND<10	133
	6/15/2017	ND<10	133
	12/13/2017	ND<10	133
	6/20/2018	ND<10	133
	12/20/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	23.6	289
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1752
Rank Mean = 146

GWC-14A	6/16/2016	ND<10	133
	12/8/2016	ND<10	133
	6/13/2017	ND<10	133
	12/13/2017	ND<10	133
	6/21/2018	20	272
	12/19/2018	ND<10	133
	6/12/2019	ND<10	133
	12/11/2019	ND<10	133
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/16/2021	ND<10	133
	12/15/2021	26	305

Rank Sum = 1907
Rank Mean = 158.917

GWC-15	6/16/2016	55	351
	12/8/2016	ND<10	133
	6/14/2017	90	362
	12/14/2017	60	354
	6/20/2018	56	352
	12/19/2018	ND<10	133
	6/11/2019	ND<10	133
	12/10/2019	ND<10	133
	6/25/2020	ND<10	133
	12/17/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 2483
Rank Mean = 206.917

GWC-19R	6/16/2016	ND<10	133
	12/7/2016	ND<10	133
	6/15/2017	ND<10	133
	12/14/2017	ND<10	133
	6/20/2018	21	277
	12/19/2018	ND<10	133
	6/12/2019	ND<10	133
	12/10/2019	ND<10	133
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/15/2021	ND<10	133
	12/15/2021	ND<10	133

Rank Sum = 1740
Rank Mean = 145

GWC-22	6/16/2016	ND<10	133
	12/7/2016	ND<10	133

	6/15/2017	ND<10	133
	12/12/2017	ND<10	133
	6/20/2018	21	278
	12/19/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	ND<10	133
	6/24/2020	ND<10	133
	12/18/2020	ND<10	133
	6/15/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 1741
Rank Mean = 145.083

GWC-23	6/16/2016	ND<10	133
	12/7/2016	ND<10	133
	6/15/2017	ND<10	133
	12/12/2017	ND<10	133
	6/19/2018	ND<10	133
	12/19/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	ND<10	133
	6/24/2020	ND<10	133
	12/17/2020	ND<10	133
	6/15/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 1596
Rank Mean = 133

GWC-7	6/16/2016	36	326
	12/9/2016	ND<10	133
	6/13/2017	20	273
	12/13/2017	ND<10	133
	6/20/2018	30	316
	12/19/2018	110	363
	6/13/2019	23	286
	12/12/2019	42.2	339
	6/25/2020	ND<10	133
	12/18/2020	ND<10	133
	6/16/2021	ND<10	133
	12/14/2021	ND<10	133

Rank Sum = 2701
Rank Mean = 225.083

GWC-8	6/16/2016	ND<10	133
	12/9/2016	26	306
	12/13/2017	ND<10	133
	6/21/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	ND<10	133
	6/24/2020	ND<10	133
	12/17/2020	ND<10	133
	6/17/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1503
Rank Mean = 150.3

GWC-8A	6/16/2016	ND<10	133
	12/9/2016	ND<10	133
	6/14/2017	ND<10	133
	12/13/2017	ND<10	133
	6/21/2018	34	325

	12/20/2018	42	338
	6/13/2019	ND<10	133
	12/12/2019	ND<10	133
	6/24/2020	ND<10	133
	12/16/2020	ND<10	133
	6/17/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 1993
Rank Mean = 166.083

GWC-16A	6/17/2016	ND<10	133
	12/8/2016	ND<10	133
	6/15/2017	79	360
	12/14/2017	ND<10	133
	6/21/2018	44	342
	12/20/2018	ND<10	133
	6/13/2019	ND<10	133
	12/12/2019	ND<10	133
	6/23/2020	ND<10	133
	12/17/2020	ND<10	133
	6/16/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 2032
Rank Mean = 169.333

GWC-4	6/17/2016	ND<10	133
	12/8/2016	ND<10	133
	6/21/2018	25	297
	6/24/2020	ND<10	133
	12/18/2020	ND<10	133
	6/17/2021	43.2	340
	12/15/2021	ND<10	133

Rank Sum = 1302
Rank Mean = 186

GWC-4A	6/17/2016	ND<10	133
	12/8/2016	ND<10	133
	6/14/2017	ND<10	133
	12/13/2017	25	298
	6/21/2018	ND<10	133
	12/18/2018	ND<10	133
	6/12/2019	23	287
	12/12/2019	50	349
	6/24/2020	ND<10	133
	12/18/2020	ND<10	133
	6/18/2021	ND<10	133
	12/16/2021	ND<10	133

Rank Sum = 2131
Rank Mean = 177.583

Calculation Results:
Kruskal-Wallis H Statistic = 62.7039
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 102.1
95% Confidence comparison value is 43.773 at 30 degrees of freedom
62.7039 > 43.773 indicating a significant group difference at 5% significance level
102.1 > 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 240.583

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	146.083	-94.5	86.5436
GWA-3	180	-60.5833	86.5436
GWC-17	175.455	-65.1288	89.1276
GWC-18	208.333	-32.25	86.5436
GWC-24	155.714	-84.869	105.149
GWC-10	236.583	-4	86.5436
GWC-10A	164.833	-75.75	86.5436
GWC-11	192.417	-48.1667	86.5436
GWC-12	133	-107.583	86.5436
GWC-12A	158.5	-82.0833	86.5436
GWC-14	220.5	-20.0833	99.932
GWC-2	188.75	-51.8333	86.5436
GWC-23A	148.667	-91.9167	86.5436
GWC-3	151.111	-89.4722	95.6776
GWC-3A	204.917	-35.6667	86.5436
GWC-5	175.167	-65.4167	86.5436
GWC-6	151.833	-88.75	86.5436
GWC-9	**346.833**	**106.25**	**86.5436**
GWC-13	146	-94.5833	86.5436
GWC-14A	158.917	-81.6667	86.5436
GWC-15	206.917	-33.6667	86.5436
GWC-19R	145	-95.5833	86.5436
GWC-22	145.083	-95.5	86.5436
GWC-23	133	-107.583	86.5436
GWC-7	225.083	-15.5	86.5436
GWC-8	150.3	-90.2833	92.1327
GWC-8A	166.083	-74.5	86.5436
GWC-16A	169.333	-71.25	86.5436
GWC-4	186	-54.5833	105.149
GWC-4A	177.583	-63	86.5436

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 240.583

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	146.083	-94.5	114.962
GWA-3	180	-60.5833	114.962
GWC-17	175.455	-65.1288	118.394
GWC-18	208.333	-32.25	114.962
GWC-24	155.714	-84.869	139.677
GWC-10	236.583	-4	114.962
GWC-10A	164.833	-75.75	114.962
GWC-11	192.417	-48.1667	114.962
GWC-12	133	-107.583	114.962
GWC-12A	158.5	-82.0833	114.962
GWC-14	220.5	-20.0833	132.747
GWC-2	188.75	-51.8333	114.962
GWC-23A	148.667	-91.9167	114.962
GWC-3	151.111	-89.4722	127.095
GWC-3A	204.917	-35.6667	114.962
GWC-5	175.167	-65.4167	114.962
GWC-6	151.833	-88.75	114.962
GWC-9	346.833	106.25	114.962
GWC-13	146	-94.5833	114.962
GWC-14A	158.917	-81.6667	114.962
GWC-15	206.917	-33.6667	114.962
GWC-19R	145	-95.5833	114.962
GWC-22	145.083	-95.5	114.962

GWC-23	133	-107.583	114.962
GWC-7	225.083	-15.5	114.962
GWC-8	150.3	-90.2833	122.386
GWC-8A	166.083	-74.5	114.962
GWC-16A	169.333	-71.25	114.962
GWC-4	186	-54.5833	139.677
GWC-4A	177.583	-63	114.962

Atlantic Coast Consulting, Inc.

STATISTICAL ANALYSIS:
Non-Parametric Tolerance Interval Test

Forsyth County - Hightower Road MSWLF - Phase I
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	PH1-GWA-2	FALSE	5%
1,1-Dichloroethane	PH1-GWB-1	FALSE	5%
1,1-Dichloroethane	PH1-GWB-2	FALSE	5%
1,1-Dichloroethane	PH1-GWC-4	FALSE	5%
1,1-Dichloroethane	GWC-1	FALSE	5%
1,1-Dichloroethane	PH1-GWA-1	FALSE	5%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	5%
1,1-Dichloroethane	PH1-GWC-2	**TRUE**	5%
1,1-Dichloroethane	PH1-GWC-1	FALSE	5%
1,1-Dichloroethane	PH1-GWC-3	**TRUE**	5%
1,1-Dichloroethane	PH1-GWC-3A	**TRUE**	5%
cis-1,2-Dichloroethene	PH1-GWA-2	**TRUE**	5%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	5%
cis-1,2-Dichloroethene	GWC-1	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWA-1	**TRUE**	5%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWC-2	**TRUE**	5%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	5%
cis-1,2-Dichloroethene	PH1-GWC-3	**TRUE**	5%
cis-1,2-Dichloroethene	PH1-GWC-3A	**TRUE**	5%
Tetrachloroethene	PH1-GWA-2	FALSE	5%
Tetrachloroethene	PH1-GWB-1	FALSE	5%
Tetrachloroethene	PH1-GWB-2	FALSE	5%
Tetrachloroethene	PH1-GWC-4	FALSE	5%
Tetrachloroethene	GWC-1	FALSE	5%
Tetrachloroethene	PH1-GWA-1	FALSE	5%
Tetrachloroethene	PH1-GWA-1A	FALSE	5%
Tetrachloroethene	PH1-GWC-2	**TRUE**	5%
Tetrachloroethene	PH1-GWC-1	FALSE	5%
Tetrachloroethene	PH1-GWC-3	**TRUE**	5%
Tetrachloroethene	PH1-GWC-3A	**TRUE**	5%
Trichloroethene	PH1-GWA-2	FALSE	5%
Trichloroethene	PH1-GWB-1	FALSE	5%
Trichloroethene	PH1-GWB-2	FALSE	5%
Trichloroethene	PH1-GWC-4	FALSE	5%
Trichloroethene	GWC-1	FALSE	5%

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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWA-1	FALSE	5%
Trichloroethene	PH1-GWA-1A	FALSE	5%
Trichloroethene	PH1-GWC-2	**TRUE**	5%
Trichloroethene	PH1-GWC-1	FALSE	5%
Trichloroethene	PH1-GWC-3	**TRUE**	5%
Trichloroethene	PH1-GWC-3A	**TRUE**	5%
Barium	PH1-GWA-1A	FALSE	5%
Barium	PH1-GWA-2	**TRUE**	5%
Barium	PH1-GWB-1	**TRUE**	5%
Barium	PH1-GWB-2	FALSE	5%
Barium	PH1-GWC-2	FALSE	5%
Barium	PH1-GWC-4	**TRUE**	5%
Barium	GWC-1	**TRUE**	5%
Barium	PH1-GWA-1	FALSE	5%
Barium	PH1-GWC-1	**TRUE**	5%
Barium	PH1-GWC-3	**TRUE**	5%
Barium	PH1-GWC-3A	FALSE	5%
Chromium	PH1-GWA-1A	FALSE	5%
Chromium	PH1-GWA-2	FALSE	5%
Chromium	PH1-GWB-1	FALSE	5%
Chromium	PH1-GWB-2	FALSE	5%
Chromium	PH1-GWC-2	FALSE	5%
Chromium	PH1-GWC-4	FALSE	5%
Chromium	GWC-1	FALSE	5%
Chromium	PH1-GWA-1	FALSE	5%
Chromium	PH1-GWC-1	FALSE	5%
Chromium	PH1-GWC-3	FALSE	5%
Chromium	PH1-GWC-3A	FALSE	5%
Cobalt	PH1-GWA-1A	FALSE	5%
Cobalt	PH1-GWA-2	FALSE	5%
Cobalt	PH1-GWB-1	FALSE	5%
Cobalt	PH1-GWB-2	FALSE	5%
Cobalt	PH1-GWC-2	FALSE	5%
Cobalt	PH1-GWC-4	FALSE	5%
Cobalt	GWC-1	FALSE	5%
Cobalt	PH1-GWA-1	**TRUE**	5%
Cobalt	PH1-GWC-1	FALSE	5%
Cobalt	PH1-GWC-3	FALSE	5%

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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	PH1-GWC-3A	FALSE	5%
Zinc	PH1-GWA-1A	FALSE	5%
Zinc	PH1-GWA-2	FALSE	5%
Zinc	PH1-GWB-1	FALSE	5%
Zinc	PH1-GWB-2	FALSE	5%
Zinc	PH1-GWC-2	FALSE	5%
Zinc	PH1-GWC-4	FALSE	5%
Zinc	GWC-1	FALSE	5%
Zinc	PH1-GWA-1	FALSE	5%
Zinc	PH1-GWC-1	FALSE	5%
Zinc	PH1-GWC-3	FALSE	5%
Zinc	PH1-GWC-3A	Passed KW	5%

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.

Parametric Tolerance Interval Analysis

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 2
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 2

Location	Date	Value	Significant
PH1-GWA-2	6/13/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/18/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/9/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/15/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/14/2021	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/12/2017	ND<2	FALSE
	6/18/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/14/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/12/2019	ND<2	FALSE
	12/12/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE

	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/16/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/9/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/15/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/12/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/18/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-2	**6/14/2016**	**3.1**	**TRUE**
	12/7/2016	**3.2**	**TRUE**
	6/13/2017	**3**	**TRUE**
	12/13/2017	**3.4**	**TRUE**
	6/19/2018	ND<2	FALSE
	12/18/2018	**2.8**	**TRUE**
	6/10/2019	**3**	**TRUE**
	12/10/2019	**3.7**	**TRUE**
	6/22/2020	**3.1**	**TRUE**
	12/17/2020	**3.8**	**TRUE**

	6/17/2021	**3**	**TRUE**
	12/14/2021	**2.9**	**TRUE**
PH1-GWC-1	6/15/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/11/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWC-3	**6/16/2016**	**3.3**	**TRUE**
	12/8/2016	**3.6**	**TRUE**
	6/13/2017	**2.7**	**TRUE**
	12/12/2017	**3.6**	**TRUE**
	6/19/2018	**3.2**	**TRUE**
	12/18/2018	**2.7**	**TRUE**
	6/10/2019	**3.3**	**TRUE**
	12/9/2019	**4**	**TRUE**
	6/22/2020	**2.9**	**TRUE**
	12/15/2020	**3.6**	**TRUE**
	6/14/2021	**3.4**	**TRUE**
	12/14/2021	**3.2**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**2.7**	**TRUE**
	12/8/2016	**2.8**	**TRUE**
	6/13/2017	2	FALSE
	12/12/2017	**2.6**	**TRUE**
	6/19/2018	**2.6**	**TRUE**
	12/18/2018	**2.3**	**TRUE**
	6/10/2019	**2.5**	**TRUE**
	12/9/2019	**3.1**	**TRUE**
	6/26/2020	ND<2	FALSE
	12/15/2020	**3**	**TRUE**
	6/14/2021	**2.8**	**TRUE**
	12/14/2021	**2.3**	**TRUE**

Parametric Tolerance Interval Analysis

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 2
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 2

Location	Date	Value	Significant
PH1-GWA-2	**6/13/2016**	**32**	**TRUE**
	12/7/2016	**70**	**TRUE**
	6/15/2017	**49**	**TRUE**
	12/13/2017	**64**	**TRUE**
	6/18/2018	**46**	**TRUE**
	12/18/2018	**55**	**TRUE**
	6/11/2019	**26**	**TRUE**
	12/9/2019	**120**	**TRUE**
	6/24/2020	**42**	**TRUE**
	12/15/2020	**52**	**TRUE**
	6/16/2021	**34**	**TRUE**
	12/14/2021	**35**	**TRUE**
PH1-GWB-1	6/13/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/12/2017	ND<2	FALSE
	6/18/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/14/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	**2.6**	**TRUE**
	6/12/2019	ND<2	FALSE
	12/12/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE

	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/16/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWA-1	**6/14/2016**	**8.3**	**TRUE**
	12/7/2016	**5**	**TRUE**
	6/13/2017	**5.2**	**TRUE**
	12/13/2017	**3.5**	**TRUE**
	6/19/2018	**3.1**	**TRUE**
	12/18/2018	**2.4**	**TRUE**
	6/10/2019	**5.2**	**TRUE**
	12/9/2019	**3.7**	**TRUE**
	6/22/2020	**4**	**TRUE**
	12/15/2020	**4.3**	**TRUE**
	6/15/2021	**5.8**	**TRUE**
	12/13/2021	**4.1**	**TRUE**
PH1-GWA-1A	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/12/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/18/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-2	**6/14/2016**	**2.2**	**TRUE**
	12/7/2016	**2.3**	**TRUE**
	6/13/2017	**4.4**	**TRUE**
	12/13/2017	**3.1**	**TRUE**
	6/19/2018	**2.2**	**TRUE**
	12/18/2018	**3.3**	**TRUE**
	6/10/2019	**5.1**	**TRUE**
	12/10/2019	**5.7**	**TRUE**
	6/22/2020	**6**	**TRUE**
	12/17/2020	**7.8**	**TRUE**

	6/17/2021	**7**	**TRUE**
	12/14/2021	**6.7**	**TRUE**
PH1-GWC-1	6/15/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/11/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWC-3	**6/16/2016**	**15**	**TRUE**
	12/8/2016	**15**	**TRUE**
	6/13/2017	**14**	**TRUE**
	12/12/2017	**15**	**TRUE**
	6/19/2018	**15**	**TRUE**
	12/18/2018	**15**	**TRUE**
	6/10/2019	**19**	**TRUE**
	12/9/2019	**27**	**TRUE**
	6/22/2020	**20**	**TRUE**
	12/15/2020	**26**	**TRUE**
	6/14/2021	**28**	**TRUE**
	12/14/2021	**25**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**9.9**	**TRUE**
	12/8/2016	**11**	**TRUE**
	6/13/2017	**11**	**TRUE**
	12/12/2017	**10**	**TRUE**
	6/19/2018	**12**	**TRUE**
	12/18/2018	**9.2**	**TRUE**
	6/10/2019	**11**	**TRUE**
	12/9/2019	**16**	**TRUE**
	6/26/2020	**14**	**TRUE**
	12/15/2020	**16**	**TRUE**
	6/14/2021	**19**	**TRUE**
	12/14/2021	**14**	**TRUE**

Parametric Tolerance Interval Analysis

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 2
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 2

Location	Date	Value	Significant
PH1-GWA-2	6/13/2016	ND<2	FALSE
	12/7/2016	**3.7**	**TRUE**
	6/15/2017	**2.1**	**TRUE**
	12/13/2017	**2.3**	**TRUE**
	6/18/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/9/2019	**2.4**	**TRUE**
	6/24/2020	ND<2	FALSE
	12/15/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/14/2021	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/12/2017	ND<2	FALSE
	6/18/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/14/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/12/2019	ND<2	FALSE
	12/12/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE

	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/16/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	**2.1**	**TRUE**
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/9/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/15/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/12/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/18/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-2	**6/14/2016**	**4**	**TRUE**
	12/7/2016	**3.9**	**TRUE**
	6/13/2017	**6.7**	**TRUE**
	12/13/2017	**5.1**	**TRUE**
	6/19/2018	ND<2	FALSE
	12/18/2018	**5.1**	**TRUE**
	6/10/2019	**4.2**	**TRUE**
	12/10/2019	**6.3**	**TRUE**
	6/22/2020	**4.6**	**TRUE**
	12/17/2020	**5.3**	**TRUE**

	6/17/2021	**3.7**	**TRUE**
	12/14/2021	**2.9**	**TRUE**
PH1-GWC-1	6/15/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/11/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWC-3	**6/16/2016**	**8.4**	**TRUE**
	12/8/2016	**12**	**TRUE**
	6/13/2017	**11**	**TRUE**
	12/12/2017	**13**	**TRUE**
	6/19/2018	**11**	**TRUE**
	12/18/2018	**10**	**TRUE**
	6/10/2019	**11**	**TRUE**
	12/9/2019	**13**	**TRUE**
	6/22/2020	**9**	**TRUE**
	12/15/2020	**9.1**	**TRUE**
	6/14/2021	**9.3**	**TRUE**
	12/14/2021	**8.8**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**6.7**	**TRUE**
	12/8/2016	**8.6**	**TRUE**
	6/13/2017	**8.9**	**TRUE**
	12/12/2017	**10**	**TRUE**
	6/19/2018	**11**	**TRUE**
	12/18/2018	**8.7**	**TRUE**
	6/10/2019	**8.8**	**TRUE**
	12/9/2019	**7.4**	**TRUE**
	6/26/2020	ND<2	FALSE
	12/15/2020	**5.7**	**TRUE**
	6/14/2021	**8.1**	**TRUE**
	12/14/2021	**7.2**	**TRUE**

Parametric Tolerance Interval Analysis

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 2
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 2

Location	Date	Value	Significant
PH1-GWA-2	**6/13/2016**	**3.8**	**TRUE**
	12/7/2016	**7.1**	**TRUE**
	6/15/2017	**4.1**	**TRUE**
	12/13/2017	**5.8**	**TRUE**
	6/18/2018	**4.2**	**TRUE**
	12/18/2018	**4**	**TRUE**
	6/11/2019	**2.1**	**TRUE**
	12/9/2019	**7.3**	**TRUE**
	6/24/2020	**2.4**	**TRUE**
	12/15/2020	**2.5**	**TRUE**
	6/16/2021	**2.4**	**TRUE**
	12/14/2021	2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/12/2017	ND<2	FALSE
	6/18/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/11/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/14/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/12/2019	ND<2	FALSE
	12/12/2019	ND<2	FALSE
	6/24/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE

	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/17/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/16/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
	12/7/2016	**2.2**	**TRUE**
	6/13/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/9/2019	**3.1**	**TRUE**
	6/22/2020	ND<2	FALSE
	12/15/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/12/2017	ND<2	FALSE
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	ND<2	FALSE
	6/10/2019	ND<2	FALSE
	12/10/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/18/2020	ND<2	FALSE
	6/15/2021	ND<2	FALSE
	12/13/2021	ND<2	FALSE
PH1-GWC-2	6/14/2016	ND<2	FALSE
	12/7/2016	ND<2	FALSE
	6/13/2017	**2.4**	**TRUE**
	12/13/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/18/2018	2	FALSE
	6/10/2019	2	FALSE
	12/10/2019	**2.6**	**TRUE**
	6/22/2020	**2.1**	**TRUE**
	12/17/2020	**2.5**	**TRUE**

	6/17/2021	**2.7**	**TRUE**
	12/14/2021	**3**	**TRUE**
PH1-GWC-1	6/15/2016	ND<2	FALSE
	12/8/2016	ND<2	FALSE
	6/15/2017	ND<2	FALSE
	12/11/2017	ND<2	FALSE
	6/19/2018	ND<2	FALSE
	12/19/2018	ND<2	FALSE
	6/13/2019	ND<2	FALSE
	12/11/2019	ND<2	FALSE
	6/22/2020	ND<2	FALSE
	12/17/2020	ND<2	FALSE
	6/16/2021	ND<2	FALSE
	12/15/2021	ND<2	FALSE
PH1-GWC-3	**6/16/2016**	**5.6**	**TRUE**
	12/8/2016	**7.6**	**TRUE**
	6/13/2017	**7**	**TRUE**
	12/12/2017	**8.4**	**TRUE**
	6/19/2018	**6.9**	**TRUE**
	12/18/2018	**6.8**	**TRUE**
	6/10/2019	**7.4**	**TRUE**
	12/9/2019	**8.7**	**TRUE**
	6/22/2020	**7.1**	**TRUE**
	12/15/2020	**7.6**	**TRUE**
	6/14/2021	**7.5**	**TRUE**
	12/14/2021	**7.1**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**4.6**	**TRUE**
	12/8/2016	**6.8**	**TRUE**
	6/13/2017	**6**	**TRUE**
	12/12/2017	**6.6**	**TRUE**
	6/19/2018	**6.8**	**TRUE**
	12/18/2018	**5.8**	**TRUE**
	6/10/2019	**5.7**	**TRUE**
	12/9/2019	**8.4**	**TRUE**
	6/26/2020	**2.8**	**TRUE**
	12/15/2020	**8.1**	**TRUE**
	6/14/2021	**6.1**	**TRUE**
	12/14/2021	**5.7**	**TRUE**

Parametric Tolerance Interval Analysis

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 20.7083
Background standard deviation = 3.47011
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 28.7208

Location	Date	Value	Significant
PH1-GWA-1A	**6/14/2016**	**37**	**TRUE**
	12/7/2016	21	FALSE
	6/12/2017	24	FALSE
	12/13/2017	27	FALSE
	6/20/2018	25	FALSE
	12/19/2018	27	FALSE
	6/11/2019	24	FALSE
	12/10/2019	23.4	FALSE
	6/22/2020	21.7	FALSE
	12/18/2020	27.4	FALSE
	6/16/2021	24.8	FALSE
	12/14/2021	22.6	FALSE
PH1-GWA-2	**6/14/2016**	**85**	**TRUE**
	12/8/2016	**110**	**TRUE**
	6/16/2017	**80**	**TRUE**
	12/14/2017	**80**	**TRUE**
	6/19/2018	**61**	**TRUE**
	12/19/2018	**81**	**TRUE**
	6/12/2019	**84**	**TRUE**
	12/10/2019	**84.2**	**TRUE**
	6/25/2020	**64.6**	**TRUE**
	12/16/2020	**65.5**	**TRUE**
	6/17/2021	**71.7**	**TRUE**
	12/15/2021	**71.6**	**TRUE**
PH1-GWB-1	**6/14/2016**	**84**	**TRUE**
	12/8/2016	**75**	**TRUE**
	6/16/2017	**52**	**TRUE**
	12/13/2017	**54**	**TRUE**
	6/19/2018	**62**	**TRUE**
	12/18/2018	**53**	**TRUE**
	6/12/2019	**82**	**TRUE**
	12/11/2019	**67**	**TRUE**
	6/25/2020	**79.3**	**TRUE**
	12/18/2020	**50.5**	**TRUE**
	6/15/2021	**63.1**	**TRUE**
	12/14/2021	**56.8**	**TRUE**
PH1-GWB-2	6/14/2016	28	FALSE
	12/9/2016	26	FALSE
	6/16/2017	ND<20	FALSE
	12/12/2017	ND<20	FALSE

	6/20/2018	ND<20	FALSE
	12/18/2018	22	FALSE
	6/13/2019	ND<20	FALSE
	12/13/2019	ND<20	FALSE
	6/25/2020	ND<20	FALSE
	12/18/2020	ND<20	FALSE
	6/17/2021	ND<20	FALSE
	12/14/2021	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
	12/7/2016	ND<20	FALSE
	6/14/2017	**51**	**TRUE**
	12/13/2017	ND<20	FALSE
	6/19/2018	ND<20	FALSE
	12/18/2018	26	FALSE
	6/10/2019	**39**	**TRUE**
	12/10/2019	ND<20	FALSE
	6/22/2020	**33.6**	**TRUE**
	12/17/2020	ND<20	FALSE
	6/17/2021	20.6	FALSE
	12/17/2021	ND<20	FALSE
PH1-GWC-4	**6/14/2016**	**41**	**TRUE**
	12/9/2016	**80**	**TRUE**
	6/16/2017	**42**	**TRUE**
	12/12/2017	**54**	**TRUE**
	6/20/2018	**34**	**TRUE**
	12/20/2018	**310**	**TRUE**
	6/13/2019	**32**	**TRUE**
	6/23/2020	25.2	FALSE
	12/18/2020	**56.4**	**TRUE**
	6/17/2021	**33**	**TRUE**
	12/16/2021	**41.3**	**TRUE**
GWC-1	**6/15/2016**	**92**	**TRUE**
	12/9/2016	**100**	**TRUE**
	6/14/2017	**92**	**TRUE**
	12/14/2017	**88**	**TRUE**
	6/20/2018	**94**	**TRUE**
	12/18/2018	**150**	**TRUE**
	6/13/2019	**93**	**TRUE**
	12/11/2019	**85.2**	**TRUE**
	6/23/2020	**95.3**	**TRUE**
	12/17/2020	**81.1**	**TRUE**
	6/16/2021	**86.1**	**TRUE**
	12/16/2021	**84**	**TRUE**
PH1-GWA-1	6/15/2016	21	FALSE
	12/8/2016	ND<20	FALSE
	6/14/2017	21	FALSE
	12/14/2017	20	FALSE
	6/20/2018	**34**	**TRUE**
	12/19/2018	24	FALSE
	6/11/2019	24	FALSE
	12/10/2019	20.3	FALSE
	6/23/2020	27.7	FALSE
	12/16/2020	ND<20	FALSE

	6/16/2021	28.7	FALSE
	12/14/2021	22.8	FALSE
PH1-GWC-1	**6/16/2016**	**54**	**TRUE**
	12/9/2016	**70**	**TRUE**
	6/16/2017	**40**	**TRUE**
	12/12/2017	**38**	**TRUE**
	6/20/2018	**42**	**TRUE**
	12/20/2018	**47**	**TRUE**
	6/13/2019	**50**	**TRUE**
	12/12/2019	**43.7**	**TRUE**
	6/23/2020	**42.8**	**TRUE**
	12/18/2020	**32.1**	**TRUE**
	6/17/2021	**42.1**	**TRUE**
	12/16/2021	**30.6**	**TRUE**
PH1-GWC-3	6/17/2016	24	FALSE
	12/9/2016	28	FALSE
	6/14/2017	26	FALSE
	12/13/2017	27	FALSE
	6/20/2018	23	FALSE
	12/19/2018	27	FALSE
	6/11/2019	**30**	**TRUE**
	12/10/2019	24.7	FALSE
	6/23/2020	23.6	FALSE
	12/16/2020	25.6	FALSE
	6/15/2021	24.3	FALSE
	12/15/2021	**28.8**	**TRUE**
PH1-GWC-3A	**6/17/2016**	**29**	**TRUE**
	12/9/2016	**29**	**TRUE**
	6/14/2017	**29**	**TRUE**
	12/13/2017	27	FALSE
	6/28/2018	26	FALSE
	12/19/2018	24	FALSE
	6/11/2019	**30**	**TRUE**
	12/10/2019	24.9	FALSE
	6/23/2020	23.9	FALSE
	12/16/2020	25.9	FALSE
	6/15/2021	**30.5**	**TRUE**
	12/15/2021	28.5	FALSE

Parametric Tolerance Interval Analysis

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 10
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 10

Location	Date	Value	Significant
PH1-GWA-1A	**6/14/2016**	**28**	**TRUE**
	12/7/2016	ND<10	FALSE
	6/12/2017	ND<10	FALSE
	12/13/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/19/2018	ND<10	FALSE
	6/11/2019	**11**	**TRUE**
	12/10/2019	ND<10	FALSE
	6/22/2020	ND<10	FALSE
	12/18/2020	ND<10	FALSE
	6/16/2021	ND<10	FALSE
	12/14/2021	ND<10	FALSE
PH1-GWA-2	6/14/2016	ND<10	FALSE
	12/8/2016	ND<10	FALSE
	6/16/2017	ND<10	FALSE
	12/14/2017	ND<10	FALSE
	6/19/2018	ND<10	FALSE
	12/19/2018	ND<10	FALSE
	6/12/2019	ND<10	FALSE
	12/10/2019	ND<10	FALSE
	6/25/2020	ND<10	FALSE
	12/16/2020	ND<10	FALSE
	6/17/2021	ND<10	FALSE
	12/15/2021	ND<10	FALSE
PH1-GWB-1	6/14/2016	ND<10	FALSE
	12/8/2016	ND<10	FALSE
	6/16/2017	ND<10	FALSE
	12/13/2017	ND<10	FALSE
	6/19/2018	ND<10	FALSE
	12/18/2018	ND<10	FALSE
	6/12/2019	ND<10	FALSE
	12/11/2019	ND<10	FALSE
	6/25/2020	ND<10	FALSE
	12/18/2020	ND<10	FALSE
	6/15/2021	ND<10	FALSE
	12/14/2021	ND<10	FALSE
PH1-GWB-2	6/14/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/16/2017	ND<10	FALSE
	12/12/2017	ND<10	FALSE

	6/20/2018	ND<10	FALSE
	12/18/2018	ND<10	FALSE
	6/13/2019	ND<10	FALSE
	12/13/2019	ND<10	FALSE
	6/25/2020	ND<10	FALSE
	12/18/2020	ND<10	FALSE
	6/17/2021	ND<10	FALSE
	12/14/2021	ND<10	FALSE
PH1-GWC-2	6/14/2016	ND<10	FALSE
	12/7/2016	ND<10	FALSE
	6/14/2017	ND<10	FALSE
	12/13/2017	ND<10	FALSE
	6/19/2018	**12**	**TRUE**
	12/18/2018	ND<10	FALSE
	6/10/2019	**69**	**TRUE**
	12/10/2019	ND<10	FALSE
	6/22/2020	**27.2**	**TRUE**
	12/17/2020	ND<10	FALSE
	6/17/2021	ND<10	FALSE
	12/17/2021	ND<10	FALSE
PH1-GWC-4	6/14/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/16/2017	ND<10	FALSE
	12/12/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/20/2018	**49**	**TRUE**
	6/13/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/18/2020	ND<10	FALSE
	6/17/2021	ND<10	FALSE
	12/16/2021	ND<10	FALSE
GWC-1	6/15/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/14/2017	ND<10	FALSE
	12/14/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/18/2018	ND<10	FALSE
	6/13/2019	ND<10	FALSE
	12/11/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/17/2020	ND<10	FALSE
	6/16/2021	ND<10	FALSE
	12/16/2021	ND<10	FALSE
PH1-GWA-1	6/15/2016	ND<10	FALSE
	12/8/2016	ND<10	FALSE
	6/14/2017	ND<10	FALSE
	12/14/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/19/2018	ND<10	FALSE
	6/11/2019	ND<10	FALSE
	12/10/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/16/2020	ND<10	FALSE

	6/16/2021	ND<10	FALSE
	12/14/2021	ND<10	FALSE
PH1-GWC-1	6/16/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/16/2017	ND<10	FALSE
	12/12/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/20/2018	ND<10	FALSE
	6/13/2019	ND<10	FALSE
	12/12/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/18/2020	ND<10	FALSE
	6/17/2021	ND<10	FALSE
	12/16/2021	ND<10	FALSE
PH1-GWC-3	6/17/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/14/2017	ND<10	FALSE
	12/13/2017	ND<10	FALSE
	6/20/2018	ND<10	FALSE
	12/19/2018	ND<10	FALSE
	6/11/2019	ND<10	FALSE
	12/10/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/16/2020	ND<10	FALSE
	6/15/2021	ND<10	FALSE
	12/15/2021	ND<10	FALSE
PH1-GWC-3A	6/17/2016	ND<10	FALSE
	12/9/2016	ND<10	FALSE
	6/14/2017	ND<10	FALSE
	12/13/2017	ND<10	FALSE
	6/28/2018	ND<10	FALSE
	12/19/2018	ND<10	FALSE
	6/11/2019	ND<10	FALSE
	12/10/2019	ND<10	FALSE
	6/23/2020	ND<10	FALSE
	12/16/2020	ND<10	FALSE
	6/15/2021	ND<10	FALSE
	12/15/2021	ND<10	FALSE

Parametric Tolerance Interval Analysis

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 40
Background standard deviation = 0
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 40

Location	Date	Value	Significant
PH1-GWA-1A	6/14/2016	ND<40	FALSE
	12/7/2016	ND<40	FALSE
	6/12/2017	ND<40	FALSE
	12/13/2017	ND<40	FALSE
	6/20/2018	ND<40	FALSE
	12/19/2018	ND<40	FALSE
	6/11/2019	ND<40	FALSE
	12/10/2019	ND<40	FALSE
	6/22/2020	ND<40	FALSE
	12/18/2020	ND<40	FALSE
	6/16/2021	ND<40	FALSE
	12/14/2021	ND<40	FALSE
PH1-GWA-2	6/14/2016	ND<40	FALSE
	12/8/2016	ND<40	FALSE
	6/16/2017	ND<40	FALSE
	12/14/2017	ND<40	FALSE
	6/19/2018	ND<40	FALSE
	12/19/2018	ND<40	FALSE
	6/12/2019	ND<40	FALSE
	12/10/2019	ND<40	FALSE
	6/25/2020	ND<40	FALSE
	12/16/2020	ND<40	FALSE
	6/17/2021	ND<40	FALSE
	12/15/2021	ND<40	FALSE
PH1-GWB-1	6/14/2016	ND<40	FALSE
	12/8/2016	ND<40	FALSE
	6/16/2017	ND<40	FALSE
	12/13/2017	ND<40	FALSE
	6/19/2018	ND<40	FALSE
	12/18/2018	ND<40	FALSE
	6/12/2019	ND<40	FALSE
	12/11/2019	ND<40	FALSE
	6/25/2020	ND<40	FALSE
	12/18/2020	ND<40	FALSE
	6/15/2021	ND<40	FALSE
	12/14/2021	ND<40	FALSE
PH1-GWB-2	6/14/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/16/2017	ND<40	FALSE
	12/12/2017	ND<40	FALSE

	6/20/2018	ND<40	FALSE
	12/18/2018	ND<40	FALSE
	6/13/2019	ND<40	FALSE
	12/13/2019	ND<40	FALSE
	6/25/2020	ND<40	FALSE
	12/18/2020	ND<40	FALSE
	6/17/2021	ND<40	FALSE
	12/14/2021	ND<40	FALSE
PH1-GWC-2	6/14/2016	ND<40	FALSE
	12/7/2016	ND<40	FALSE
	6/14/2017	ND<40	FALSE
	12/13/2017	ND<40	FALSE
	6/19/2018	ND<40	FALSE
	12/18/2018	ND<40	FALSE
	6/10/2019	ND<40	FALSE
	12/10/2019	ND<40	FALSE
	6/22/2020	ND<40	FALSE
	12/17/2020	ND<40	FALSE
	6/17/2021	ND<40	FALSE
	12/17/2021	ND<40	FALSE
PH1-GWC-4	6/14/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/16/2017	ND<40	FALSE
	12/12/2017	ND<40	FALSE
	6/20/2018	ND<40	FALSE
	12/20/2018	ND<40	FALSE
	6/13/2019	ND<40	FALSE
	6/23/2020	ND<40	FALSE
	12/18/2020	ND<40	FALSE
	6/17/2021	ND<40	FALSE
	12/16/2021	ND<40	FALSE
GWC-1	6/15/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/14/2017	ND<40	FALSE
	12/14/2017	ND<40	FALSE
	6/20/2018	ND<40	FALSE
	12/18/2018	ND<40	FALSE
	6/13/2019	ND<40	FALSE
	12/11/2019	ND<40	FALSE
	6/23/2020	ND<40	FALSE
	12/17/2020	ND<40	FALSE
	6/16/2021	ND<40	FALSE
	12/16/2021	ND<40	FALSE
PH1-GWA-1	**6/15/2016**	**110**	**TRUE**
	12/8/2016	**94**	**TRUE**
	6/14/2017	**100**	**TRUE**
	12/14/2017	**76**	**TRUE**
	6/20/2018	**75**	**TRUE**
	12/19/2018	**82**	**TRUE**
	6/11/2019	**91**	**TRUE**
	12/10/2019	**90.1**	**TRUE**
	6/23/2020	**76.6**	**TRUE**
	12/16/2020	**95.6**	**TRUE**

	6/16/2021	**83.5**	**TRUE**
	12/14/2021	**111**	**TRUE**
PH1-GWC-1	6/16/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/16/2017	ND<40	FALSE
	12/12/2017	ND<40	FALSE
	6/20/2018	ND<40	FALSE
	12/20/2018	ND<40	FALSE
	6/13/2019	ND<40	FALSE
	12/12/2019	ND<40	FALSE
	6/23/2020	ND<40	FALSE
	12/18/2020	ND<40	FALSE
	6/17/2021	ND<40	FALSE
	12/16/2021	ND<40	FALSE
PH1-GWC-3	6/17/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/14/2017	ND<40	FALSE
	12/13/2017	ND<40	FALSE
	6/20/2018	ND<40	FALSE
	12/19/2018	ND<40	FALSE
	6/11/2019	ND<40	FALSE
	12/10/2019	ND<40	FALSE
	6/23/2020	ND<40	FALSE
	12/16/2020	ND<40	FALSE
	6/15/2021	ND<40	FALSE
	12/15/2021	ND<40	FALSE
PH1-GWC-3A	6/17/2016	ND<40	FALSE
	12/9/2016	ND<40	FALSE
	6/14/2017	ND<40	FALSE
	12/13/2017	ND<40	FALSE
	6/28/2018	ND<40	FALSE
	12/19/2018	ND<40	FALSE
	6/11/2019	ND<40	FALSE
	12/10/2019	ND<40	FALSE
	6/23/2020	ND<40	FALSE
	12/16/2020	ND<40	FALSE
	6/15/2021	ND<40	FALSE
	12/15/2021	ND<40	FALSE

Parametric Tolerance Interval Analysis

Parameter: Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

USEPA 1989 Guidance Tolerance Limit Formula (One-Tailed)

Background observations = 24
Background mean = 21.2042
Background standard deviation = 5.89919
One-sided normal tolerance factor (K) at 95% confidence = 2.309
Upper tolerance limit = 34.8254

Location	Date	Value	Significant
PH1-GWA-1A	6/14/2016	ND<20	FALSE
	12/7/2016	ND<20	FALSE
	6/12/2017	ND<20	FALSE
	12/13/2017	ND<20	FALSE
	6/20/2018	ND<20	FALSE
	12/19/2018	ND<20	FALSE
	6/11/2019	ND<20	FALSE
	12/10/2019	ND<20	FALSE
	6/22/2020	ND<20	FALSE
	12/18/2020	ND<20	FALSE
	6/16/2021	ND<20	FALSE
	12/14/2021	ND<20	FALSE
PH1-GWA-2	**6/14/2016**	**56**	**TRUE**
	12/8/2016	ND<20	FALSE
	6/16/2017	ND<20	FALSE
	12/14/2017	ND<20	FALSE
	6/19/2018	ND<20	FALSE
	12/19/2018	29	FALSE
	6/12/2019	ND<20	FALSE
	12/10/2019	ND<20	FALSE
	6/25/2020	ND<20	FALSE
	12/16/2020	ND<20	FALSE
	6/17/2021	ND<20	FALSE
	12/15/2021	ND<20	FALSE
PH1-GWB-1	6/14/2016	ND<20	FALSE
	12/8/2016	ND<20	FALSE
	6/16/2017	ND<20	FALSE
	12/13/2017	ND<20	FALSE
	6/19/2018	**39**	**TRUE**
	12/18/2018	ND<20	FALSE
	6/12/2019	22	FALSE
	12/11/2019	**38.2**	**TRUE**
	6/25/2020	26.8	FALSE
	12/18/2020	ND<20	FALSE
	6/15/2021	ND<20	FALSE
	12/14/2021	ND<20	FALSE
PH1-GWB-2	**6/14/2016**	**59**	**TRUE**
	12/9/2016	31	FALSE
	6/16/2017	**36**	**TRUE**
	12/12/2017	25	FALSE

	6/20/2018	31	FALSE
	12/18/2018	28	FALSE
	6/13/2019	33	FALSE
	12/13/2019	**38.3**	**TRUE**
	6/25/2020	25.4	FALSE
	12/18/2020	21.6	FALSE
	6/17/2021	26.3	FALSE
	12/14/2021	23.8	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
	12/7/2016	ND<20	FALSE
	6/14/2017	ND<20	FALSE
	12/13/2017	ND<20	FALSE
	6/19/2018	20	FALSE
	12/18/2018	ND<20	FALSE
	6/10/2019	26	FALSE
	12/10/2019	ND<20	FALSE
	6/22/2020	ND<20	FALSE
	12/17/2020	ND<20	FALSE
	6/17/2021	ND<20	FALSE
	12/17/2021	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
	12/9/2016	21	FALSE
	6/16/2017	20	FALSE
	12/12/2017	28	FALSE
	6/20/2018	ND<20	FALSE
	12/20/2018	**120**	**TRUE**
	6/13/2019	20	FALSE
	6/23/2020	ND<20	FALSE
	12/18/2020	ND<20	FALSE
	6/17/2021	ND<20	FALSE
	12/16/2021	21.7	FALSE
GWC-1	6/15/2016	ND<20	FALSE
	12/9/2016	ND<20	FALSE
	6/14/2017	ND<20	FALSE
	12/14/2017	ND<20	FALSE
	6/20/2018	20	FALSE
	12/18/2018	ND<20	FALSE
	6/13/2019	ND<20	FALSE
	12/11/2019	27.1	FALSE
	6/23/2020	**55.4**	**TRUE**
	12/17/2020	ND<20	FALSE
	6/16/2021	ND<20	FALSE
	12/16/2021	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
	12/8/2016	ND<20	FALSE
	6/14/2017	**43**	**TRUE**
	12/14/2017	**51**	**TRUE**
	6/20/2018	**55**	**TRUE**
	12/19/2018	**40**	**TRUE**
	6/11/2019	34	FALSE
	12/10/2019	32.4	FALSE
	6/23/2020	ND<20	FALSE
	12/16/2020	ND<20	FALSE

	6/16/2021	ND<20	FALSE
	12/14/2021	31	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
	12/9/2016	ND<20	FALSE
	6/16/2017	ND<20	FALSE
	12/12/2017	ND<20	FALSE
	6/20/2018	ND<20	FALSE
	12/20/2018	ND<20	FALSE
	6/13/2019	ND<20	FALSE
	12/12/2019	ND<20	FALSE
	6/23/2020	32.5	FALSE
	12/18/2020	ND<20	FALSE
	6/17/2021	ND<20	FALSE
	12/16/2021	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
	12/9/2016	ND<20	FALSE
	6/14/2017	ND<20	FALSE
	12/13/2017	ND<20	FALSE
	6/20/2018	ND<20	FALSE
	12/19/2018	ND<20	FALSE
	6/11/2019	ND<20	FALSE
	12/10/2019	ND<20	FALSE
	6/23/2020	ND<20	FALSE
	12/16/2020	ND<20	FALSE
	6/15/2021	ND<20	FALSE
	12/15/2021	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
	12/9/2016	ND<20	FALSE
	6/14/2017	ND<20	FALSE
	12/13/2017	ND<20	FALSE
	6/28/2018	21	FALSE
	12/19/2018	ND<20	FALSE
	6/11/2019	ND<20	FALSE
	12/10/2019	ND<20	FALSE
	6/23/2020	**36.9**	**TRUE**
	12/16/2020	ND<20	FALSE
	6/15/2021	23.6	FALSE
	12/15/2021	**43.6**	**TRUE**

Forsyth County - Hightower Road MSWLF - Phases II-IV
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-3	FALSE	96%
1,1-Dichloroethane	GWC-17	FALSE	96%
1,1-Dichloroethane	GWC-18	FALSE	96%
1,1-Dichloroethane	GWC-24	FALSE	96%
1,1-Dichloroethane	GWA-1A	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-2	FALSE	96%
1,1-Dichloroethane	GWC-3	FALSE	96%
1,1-Dichloroethane	GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-5	FALSE	96%
1,1-Dichloroethane	GWC-6	FALSE	96%
1,1-Dichloroethane	GWC-9	FALSE	96%
1,1-Dichloroethane	GWC-13	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-19R	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-7	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-16A	FALSE	96%
1,1-Dichloroethane	GWC-4	FALSE	96%
1,1-Dichloroethane	GWC-4A	FALSE	96%
Benzene	GWA-3	FALSE	96%
Benzene	GWC-17	FALSE	96%
Benzene	GWC-18	FALSE	96%
Benzene	GWC-24	FALSE	96%
Benzene	GWA-1A	FALSE	96%
Benzene	GWC-10	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-10A	FALSE	96%
Benzene	GWC-11	FALSE	96%
Benzene	GWC-12	FALSE	96%
Benzene	GWC-12A	FALSE	96%
Benzene	GWC-2	FALSE	96%
Benzene	GWC-3	FALSE	96%
Benzene	GWC-3A	FALSE	96%
Benzene	GWC-5	FALSE	96%
Benzene	GWC-6	FALSE	96%
Benzene	GWC-9	FALSE	96%
Benzene	GWC-13	FALSE	96%
Benzene	GWC-14	FALSE	96%
Benzene	GWC-14A	**TRUE**	96%
Benzene	GWC-14R	FALSE	96%
Benzene	GWC-15	**TRUE**	96%
Benzene	GWC-19R	FALSE	96%
Benzene	GWC-22	FALSE	96%
Benzene	GWC-23	FALSE	96%
Benzene	GWC-23A	FALSE	96%
Benzene	GWC-7	FALSE	96%
Benzene	GWC-8	FALSE	96%
Benzene	GWC-8A	FALSE	96%
Benzene	GWC-8R	FALSE	96%
Benzene	GWC-16A	FALSE	96%
Benzene	GWC-4	FALSE	96%
Benzene	GWC-4A	FALSE	96%
Chlorobenzene	GWA-3	FALSE	96%
Chlorobenzene	GWC-17	FALSE	96%
Chlorobenzene	GWC-18	FALSE	96%
Chlorobenzene	GWC-24	FALSE	96%
Chlorobenzene	GWA-1A	FALSE	96%
Chlorobenzene	GWC-10	FALSE	96%
Chlorobenzene	GWC-10A	FALSE	96%
Chlorobenzene	GWC-11	FALSE	96%
Chlorobenzene	GWC-12	FALSE	96%
Chlorobenzene	GWC-12A	FALSE	96%
Chlorobenzene	GWC-2	FALSE	96%
Chlorobenzene	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 - Phases II-IV
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chlorobenzene	GWC-3A	FALSE	96%
Chlorobenzene	GWC-5	FALSE	96%
Chlorobenzene	GWC-6	FALSE	96%
Chlorobenzene	GWC-9	FALSE	96%
Chlorobenzene	GWC-13	FALSE	96%
Chlorobenzene	GWC-14	FALSE	96%
Chlorobenzene	GWC-14A	*Passed KW*	96%
Chlorobenzene	GWC-14R	FALSE	96%
Chlorobenzene	GWC-15	FALSE	96%
Chlorobenzene	GWC-19R	FALSE	96%
Chlorobenzene	GWC-22	FALSE	96%
Chlorobenzene	GWC-23	FALSE	96%
Chlorobenzene	GWC-23A	FALSE	96%
Chlorobenzene	GWC-7	FALSE	96%
Chlorobenzene	GWC-8	FALSE	96%
Chlorobenzene	GWC-8A	FALSE	96%
Chlorobenzene	GWC-8R	FALSE	96%
Chlorobenzene	GWC-16A	FALSE	96%
Chlorobenzene	GWC-4	FALSE	96%
Chlorobenzene	GWC-4A	FALSE	96%
Chloroethane	GWA-3	FALSE	96%
Chloroethane	GWC-17	FALSE	96%
Chloroethane	GWC-18	FALSE	96%
Chloroethane	GWC-24	FALSE	96%
Chloroethane	GWA-1A	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-2	FALSE	96%
Chloroethane	GWC-3	FALSE	96%
Chloroethane	GWC-3A	FALSE	96%
Chloroethane	GWC-5	FALSE	96%
Chloroethane	GWC-6	FALSE	96%
Chloroethane	GWC-9	FALSE	96%
Chloroethane	GWC-13	FALSE	96%
Chloroethane	GWC-14	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-14A	**TRUE**	96%
Chloroethane	GWC-14R	FALSE	96%
Chloroethane	GWC-15	FALSE	96%
Chloroethane	GWC-19R	FALSE	96%
Chloroethane	GWC-22	FALSE	96%
Chloroethane	GWC-23	FALSE	96%
Chloroethane	GWC-23A	FALSE	96%
Chloroethane	GWC-7	FALSE	96%
Chloroethane	GWC-8	FALSE	96%
Chloroethane	GWC-8A	FALSE	96%
Chloroethane	GWC-8R	FALSE	96%
Chloroethane	GWC-16A	FALSE	96%
Chloroethane	GWC-4	FALSE	96%
Chloroethane	GWC-4A	FALSE	96%
cis-1,2-Dichloroethene	GWA-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-17	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-18	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-24	FALSE	96%
cis-1,2-Dichloroethene	GWA-1A	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-2	FALSE	96%
cis-1,2-Dichloroethene	GWC-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96%
cis-1,2-Dichloroethene	GWC-5	FALSE	96%
cis-1,2-Dichloroethene	GWC-6	FALSE	96%
cis-1,2-Dichloroethene	GWC-9	FALSE	96%
cis-1,2-Dichloroethene	GWC-13	FALSE	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-19R	**TRUE**	96%
cis-1,2-Dichloroethene	GWC-22	FALSE	96%
cis-1,2-Dichloroethene	GWC-23	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-23A	FALSE	96%
cis-1,2-Dichloroethene	GWC-7	FALSE	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-16A	FALSE	96%
cis-1,2-Dichloroethene	GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96%
Tetrachloroethene	GWA-3	FALSE	96%
Tetrachloroethene	GWC-17	FALSE	96%
Tetrachloroethene	GWC-18	**TRUE**	96%
Tetrachloroethene	GWC-24	FALSE	96%
Tetrachloroethene	GWA-1A	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-2	FALSE	96%
Tetrachloroethene	GWC-3	FALSE	96%
Tetrachloroethene	GWC-3A	FALSE	96%
Tetrachloroethene	GWC-5	FALSE	96%
Tetrachloroethene	GWC-6	FALSE	96%
Tetrachloroethene	GWC-9	FALSE	96%
Tetrachloroethene	GWC-13	FALSE	96%
Tetrachloroethene	GWC-14	FALSE	96%
Tetrachloroethene	GWC-14A	FALSE	96%
Tetrachloroethene	GWC-14R	FALSE	96%
Tetrachloroethene	GWC-15	**TRUE**	96%
Tetrachloroethene	GWC-19R	FALSE	96%
Tetrachloroethene	GWC-22	FALSE	96%
Tetrachloroethene	GWC-23	FALSE	96%
Tetrachloroethene	GWC-23A	FALSE	96%
Tetrachloroethene	GWC-7	FALSE	96%
Tetrachloroethene	GWC-8	FALSE	96%
Tetrachloroethene	GWC-8A	FALSE	96%
Tetrachloroethene	GWC-8R	FALSE	96%
Tetrachloroethene	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-4	FALSE	96%
Tetrachloroethene	GWC-4A	FALSE	96%
Trichloroethene	GWA-3	FALSE	96%
Trichloroethene	GWC-17	FALSE	96%
Trichloroethene	GWC-18	FALSE	96%
Trichloroethene	GWC-24	FALSE	96%
Trichloroethene	GWA-1A	FALSE	96%
Trichloroethene	GWC-10	FALSE	96%
Trichloroethene	GWC-10A	FALSE	96%
Trichloroethene	GWC-11	FALSE	96%
Trichloroethene	GWC-12	FALSE	96%
Trichloroethene	GWC-12A	FALSE	96%
Trichloroethene	GWC-2	FALSE	96%
Trichloroethene	GWC-3	FALSE	96%
Trichloroethene	GWC-3A	FALSE	96%
Trichloroethene	GWC-5	FALSE	96%
Trichloroethene	GWC-6	FALSE	96%
Trichloroethene	GWC-9	FALSE	96%
Trichloroethene	GWC-13	FALSE	96%
Trichloroethene	GWC-14	FALSE	96%
Trichloroethene	GWC-14A	FALSE	96%
Trichloroethene	GWC-14R	**TRUE**	96%
Trichloroethene	GWC-15	**TRUE**	96%
Trichloroethene	GWC-19R	FALSE	96%
Trichloroethene	GWC-22	FALSE	96%
Trichloroethene	GWC-23	FALSE	96%
Trichloroethene	GWC-23A	FALSE	96%
Trichloroethene	GWC-7	FALSE	96%
Trichloroethene	GWC-8	FALSE	96%
Trichloroethene	GWC-8A	FALSE	96%
Trichloroethene	GWC-8R	FALSE	96%
Trichloroethene	GWC-16A	FALSE	96%
Trichloroethene	GWC-4	FALSE	96%
Trichloroethene	GWC-4A	FALSE	96%
Vinyl chloride	GWA-3	FALSE	96%
Vinyl chloride	GWC-17	FALSE	96%
Vinyl chloride	GWC-18	FALSE	96%
Vinyl chloride	GWC-24	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWA-1A	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-2	FALSE	96%
Vinyl chloride	GWC-3	FALSE	96%
Vinyl chloride	GWC-3A	FALSE	96%
Vinyl chloride	GWC-5	FALSE	96%
Vinyl chloride	GWC-6	FALSE	96%
Vinyl chloride	GWC-9	FALSE	96%
Vinyl chloride	GWC-13	FALSE	96%
Vinyl chloride	GWC-14	FALSE	96%
Vinyl chloride	GWC-14A	**TRUE**	96%
Vinyl chloride	GWC-14R	FALSE	96%
Vinyl chloride	GWC-15	FALSE	96%
Vinyl chloride	GWC-19R	FALSE	96%
Vinyl chloride	GWC-22	FALSE	96%
Vinyl chloride	GWC-23	FALSE	96%
Vinyl chloride	GWC-23A	FALSE	96%
Vinyl chloride	GWC-7	FALSE	96%
Vinyl chloride	GWC-8	FALSE	96%
Vinyl chloride	GWC-8A	FALSE	96%
Vinyl chloride	GWC-8R	FALSE	96%
Vinyl chloride	GWC-16A	FALSE	96%
Vinyl chloride	GWC-4	FALSE	96%
Vinyl chloride	GWC-4A	FALSE	96%
Barium	GWA-1A	FALSE	96%
Barium	GWA-3	FALSE	96%
Barium	GWC-17	FALSE	96%
Barium	GWC-18	**TRUE**	96%
Barium	GWC-24	FALSE	96%
Barium	GWC-10	FALSE	96%
Barium	GWC-10A	FALSE	96%
Barium	GWC-11	FALSE	96%
Barium	GWC-12	FALSE	96%
Barium	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Barium	GWC-14	*Passed KW*	96%
Barium	GWC-2	FALSE	96%
Barium	GWC-23A	FALSE	96%
Barium	GWC-3	FALSE	96%
Barium	GWC-3A	FALSE	96%
Barium	GWC-5	FALSE	96%
Barium	GWC-6	FALSE	96%
Barium	GWC-9	**TRUE**	96%
Barium	GWC-13	FALSE	96%
Barium	GWC-14A	**TRUE**	96%
Barium	GWC-15	**TRUE**	96%
Barium	GWC-19R	**TRUE**	96%
Barium	GWC-22	FALSE	96%
Barium	GWC-23	FALSE	96%
Barium	GWC-7	**TRUE**	96%
Barium	GWC-8	FALSE	96%
Barium	GWC-8A	**TRUE**	96%
Barium	GWC-16A	FALSE	96%
Barium	GWC-4	FALSE	96%
Barium	GWC-4A	FALSE	96%
Chromium	GWA-1A	FALSE	96%
Chromium	GWA-3	FALSE	96%
Chromium	GWC-17	FALSE	96%
Chromium	GWC-18	FALSE	96%
Chromium	GWC-24	FALSE	96%
Chromium	GWC-10	FALSE	96%
Chromium	GWC-10A	FALSE	96%
Chromium	GWC-11	FALSE	96%
Chromium	GWC-12	FALSE	96%
Chromium	GWC-12A	*Passed KW*	96%
Chromium	GWC-14	FALSE	96%
Chromium	GWC-2	FALSE	96%
Chromium	GWC-23A	FALSE	96%
Chromium	GWC-3	FALSE	96%
Chromium	GWC-3A	FALSE	96%
Chromium	GWC-5	FALSE	96%
Chromium	GWC-6	FALSE	96%
Chromium	GWC-9	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chromium	GWC-13	FALSE	96%
Chromium	GWC-14A	FALSE	96%
Chromium	GWC-15	FALSE	96%
Chromium	GWC-19R	FALSE	96%
Chromium	GWC-22	FALSE	96%
Chromium	GWC-23	FALSE	96%
Chromium	GWC-7	FALSE	96%
Chromium	GWC-8	FALSE	96%
Chromium	GWC-8A	FALSE	96%
Chromium	GWC-16A	FALSE	96%
Chromium	GWC-4	FALSE	96%
Chromium	GWC-4A	FALSE	96%
Cobalt	GWA-1A	FALSE	96%
Cobalt	GWA-3	FALSE	96%
Cobalt	GWC-17	FALSE	96%
Cobalt	GWC-18	FALSE	96%
Cobalt	GWC-24	FALSE	96%
Cobalt	GWC-10	FALSE	96%
Cobalt	GWC-10A	FALSE	96%
Cobalt	GWC-11	FALSE	96%
Cobalt	GWC-12	FALSE	96%
Cobalt	GWC-12A	FALSE	96%
Cobalt	GWC-14	FALSE	96%
Cobalt	GWC-2	FALSE	96%
Cobalt	GWC-23A	FALSE	96%
Cobalt	GWC-3	FALSE	96%
Cobalt	GWC-3A	FALSE	96%
Cobalt	GWC-5	FALSE	96%
Cobalt	GWC-6	FALSE	96%
Cobalt	GWC-9	FALSE	96%
Cobalt	GWC-13	FALSE	96%
Cobalt	GWC-14A	**TRUE**	96%
Cobalt	GWC-15	FALSE	96%
Cobalt	GWC-19R	**TRUE**	96%
Cobalt	GWC-22	FALSE	96%
Cobalt	GWC-23	FALSE	96%
Cobalt	GWC-7	FALSE	96%
Cobalt	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Cobalt	GWC-8A	FALSE	96%
Cobalt	GWC-16A	FALSE	96%
Cobalt	GWC-4	FALSE	96%
Cobalt	GWC-4A	FALSE	96%
Nickel	GWA-1A	FALSE	96%
Nickel	GWA-3	FALSE	96%
Nickel	GWC-17	FALSE	96%
Nickel	GWC-18	*Passed KW*	96%
Nickel	GWC-24	FALSE	96%
Nickel	GWC-10	FALSE	96%
Nickel	GWC-10A	FALSE	96%
Nickel	GWC-11	FALSE	96%
Nickel	GWC-12	FALSE	96%
Nickel	GWC-12A	FALSE	96%
Nickel	GWC-14	FALSE	96%
Nickel	GWC-2	FALSE	96%
Nickel	GWC-23A	FALSE	96%
Nickel	GWC-3	FALSE	96%
Nickel	GWC-3A	FALSE	96%
Nickel	GWC-5	FALSE	96%
Nickel	GWC-6	FALSE	96%
Nickel	GWC-9	FALSE	96%
Nickel	GWC-13	FALSE	96%
Nickel	GWC-14A	FALSE	96%
Nickel	GWC-15	FALSE	96%
Nickel	GWC-19R	FALSE	96%
Nickel	GWC-22	FALSE	96%
Nickel	GWC-23	FALSE	96%
Nickel	GWC-7	FALSE	96%
Nickel	GWC-8	FALSE	96%
Nickel	GWC-8A	FALSE	96%
Nickel	GWC-16A	FALSE	96%
Nickel	GWC-4	FALSE	96%
Nickel	GWC-4A	FALSE	96%
Zinc	GWA-1A	FALSE	96%
Zinc	GWA-3	FALSE	96%
Zinc	GWC-17	FALSE	96%
Zinc	GWC-18	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
Second 2021 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Zinc	GWC-24	FALSE	96%
Zinc	GWC-10	FALSE	96%
Zinc	GWC-10A	FALSE	96%
Zinc	GWC-11	FALSE	96%
Zinc	GWC-12	FALSE	96%
Zinc	GWC-12A	FALSE	96%
Zinc	GWC-14	FALSE	96%
Zinc	GWC-2	FALSE	96%
Zinc	GWC-23A	FALSE	96%
Zinc	GWC-3	FALSE	96%
Zinc	GWC-3A	FALSE	96%
Zinc	GWC-5	FALSE	96%
Zinc	GWC-6	FALSE	96%
Zinc	GWC-9	**TRUE**	96%
Zinc	GWC-13	FALSE	96%
Zinc	GWC-14A	FALSE	96%
Zinc	GWC-15	FALSE	96%
Zinc	GWC-19R	FALSE	96%
Zinc	GWC-22	FALSE	96%
Zinc	GWC-23	FALSE	96%
Zinc	GWC-7	FALSE	96%
Zinc	GWC-8	FALSE	96%
Zinc	GWC-8A	FALSE	96%
Zinc	GWC-16A	FALSE	96%
Zinc	GWC-4	FALSE	96%
Zinc	GWC-4A	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 = 85.1385%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	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-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	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
GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE
GWC-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	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-24	12/15/2020	ND<2	FALSE
GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	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-1A	12/17/2020	ND<2	FALSE
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
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-10	12/15/2020	ND<2	FALSE
GWC-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	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-10A	12/15/2020	ND<2	FALSE
GWC-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	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
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GWC-11	6/15/2021	ND<2	FALSE

GWC-11	12/13/2021	ND<2	FALSE
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GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
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GWC-12A	6/19/2018	ND<2	FALSE
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GWC-3	6/15/2017	ND<2	FALSE
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GWC-3A	6/15/2017	ND<2	FALSE

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GWC-3A	12/17/2018	ND<2	FALSE
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GWC-3A	12/10/2019	ND<2	FALSE
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GWC-13	6/23/2020	ND<2	FALSE
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GWC-14A	**12/8/2016**	**22**	**TRUE**
GWC-14A	**6/13/2017**	**16**	**TRUE**
GWC-14A	**12/12/2017**	**23**	**TRUE**
GWC-14A	**6/20/2018**	**17**	**TRUE**
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-14A	**12/15/2020**	**11**	**TRUE**
GWC-14A	**6/15/2021**	**9.2**	**TRUE**
GWC-14A	**12/14/2021**	**13**	**TRUE**
GWC-14R	**6/15/2016**	**26**	**TRUE**
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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-14R	**12/17/2020**	**19**	**TRUE**
GWC-14R	**6/16/2021**	**16**	**TRUE**
GWC-14R	**12/14/2021**	**14**	**TRUE**
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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-15	**12/17/2020**	**33**	**TRUE**
GWC-15	**6/16/2021**	**42**	**TRUE**
GWC-15	**12/14/2021**	**39**	**TRUE**
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GWC-7	12/17/2020	ND<2	FALSE
GWC-7	6/15/2021	ND<2	FALSE
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GWC-8	6/23/2020	ND<2	FALSE
GWC-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
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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**
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GWC-8A	**12/11/2019**	**3.7**	**TRUE**
GWC-8A	**6/23/2020**	**2.4**	**TRUE**
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GWC-8A	**6/16/2021**	**2.5**	**TRUE**
GWC-8A	**12/15/2021**	**2.3**	**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-8R	**12/15/2020**	**12**	**TRUE**
GWC-8R	**6/16/2021**	**16**	**TRUE**
GWC-8R	**12/15/2021**	**11**	**TRUE**
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GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**3.7**	**TRUE**
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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-16A	12/17/2020	ND<2	FALSE
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GWC-4	12/17/2020	ND<2	FALSE
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GWC-4A	6/16/2016	ND<2	FALSE
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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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Benzene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.199%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
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GWC-24	6/11/2019	ND<2	FALSE
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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
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GWC-11	12/12/2019	ND<2	FALSE
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GWC-11	12/15/2020	ND<2	FALSE
GWC-11	6/15/2021	ND<2	FALSE

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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
GWC-3	12/16/2020	ND<2	FALSE
GWC-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
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GWC-3A	6/15/2017	ND<2	FALSE

GWC-3A	12/12/2017	ND<2	FALSE
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GWC-13	12/7/2016	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
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GWC-13	12/11/2019	ND<2	FALSE

GWC-13	6/23/2020	ND<2	FALSE
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GWC-14	12/17/2020	ND<2	FALSE
GWC-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
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GWC-14A	**12/8/2016**	**2.3**	**TRUE**
GWC-14A	**6/13/2017**	**2.8**	**TRUE**
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GWC-14A	**6/20/2018**	**2.8**	**TRUE**
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-14A	**12/15/2020**	**2.9**	**TRUE**
GWC-14A	**6/15/2021**	**2.6**	**TRUE**
GWC-14A	**12/14/2021**	**3**	**TRUE**
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GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
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GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**3.2**	**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
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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-15	**12/17/2020**	**3.1**	**TRUE**
GWC-15	**6/16/2021**	**3.9**	**TRUE**
GWC-15	**12/14/2021**	**3.7**	**TRUE**
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-19R	12/15/2020	ND<2	FALSE
GWC-19R	6/14/2021	ND<2	FALSE
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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
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GWC-23	6/24/2020	ND<2	FALSE
GWC-23	12/16/2020	ND<2	FALSE
GWC-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
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GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
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GWC-7	6/19/2018	ND<2	FALSE
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GWC-7	12/11/2019	ND<2	FALSE
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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-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
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
GWC-8A	**12/15/2020**	**2.3**	**TRUE**
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
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GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-8R	6/16/2021	2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
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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
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-16A	12/17/2020	ND<2	FALSE
GWC-16A	6/16/2021	ND<2	FALSE
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GWC-4	6/20/2018	ND<2	FALSE
GWC-4	6/23/2020	ND<2	FALSE
GWC-4	12/17/2020	ND<2	FALSE
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GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
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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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Chlorobenzene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.9924%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/13/2016	ND<10	FALSE
GWA-3	12/8/2016	ND<10	FALSE
GWA-3	6/14/2017	ND<10	FALSE
GWA-3	12/11/2017	ND<10	FALSE
GWA-3	6/18/2018	ND<10	FALSE
GWA-3	12/17/2018	ND<10	FALSE
GWA-3	6/11/2019	ND<10	FALSE
GWA-3	12/10/2019	ND<10	FALSE
GWA-3	6/22/2020	ND<10	FALSE
GWA-3	12/16/2020	ND<10	FALSE
GWA-3	6/14/2021	ND<10	FALSE
GWA-3	12/14/2021	ND<10	FALSE
GWC-17	6/13/2016	ND<10	FALSE
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GWC-24	6/11/2019	ND<10	FALSE
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GWC-24	6/24/2020	ND<10	FALSE
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GWA-1A	12/17/2020	ND<10	FALSE
GWA-1A	6/17/2021	ND<10	FALSE
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GWC-3	6/15/2021	ND<10	FALSE
GWC-3	12/15/2021	ND<10	FALSE
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GWC-3A	12/8/2016	ND<10	FALSE
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GWC-9	12/13/2021	ND<10	FALSE
GWC-13	6/15/2016	ND<10	FALSE
GWC-13	12/7/2016	ND<10	FALSE
GWC-13	6/14/2017	ND<10	FALSE
GWC-13	12/12/2017	ND<10	FALSE
GWC-13	6/19/2018	ND<10	FALSE
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GWC-13	12/11/2019	ND<10	FALSE

GWC-13	6/23/2020	ND<10	FALSE
GWC-13	12/15/2020	ND<10	FALSE
GWC-13	6/15/2021	ND<10	FALSE
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GWC-14	6/24/2020	ND<10	FALSE
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GWC-14	12/15/2021	ND<10	FALSE
GWC-14A	6/15/2016	ND<10	FALSE
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GWC-14A	6/20/2018	ND<10	FALSE
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GWC-14A	6/11/2019	ND<10	FALSE
GWC-14A	12/10/2019	ND<10	FALSE
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GWC-14A	**12/15/2020**	**16**	**TRUE**
GWC-14A	**6/15/2021**	**15**	**TRUE**
GWC-14A	**12/14/2021**	**15**	**TRUE**
GWC-14R	6/15/2016	ND<10	FALSE
GWC-14R	12/8/2016	ND<10	FALSE
GWC-14R	6/13/2017	ND<10	FALSE
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GWC-14R	6/23/2020	ND<10	FALSE
GWC-14R	12/17/2020	ND<10	FALSE
GWC-14R	6/16/2021	ND<10	FALSE
GWC-14R	12/14/2021	ND<10	FALSE
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GWC-15	6/25/2020	ND<10	FALSE
GWC-15	12/17/2020	ND<10	FALSE
GWC-15	6/16/2021	ND<10	FALSE
GWC-15	12/14/2021	ND<10	FALSE
GWC-19R	6/15/2016	ND<10	FALSE
GWC-19R	12/6/2016	ND<10	FALSE

GWC-19R	6/14/2017	ND<10	FALSE
GWC-19R	12/13/2017	ND<10	FALSE
GWC-19R	6/19/2018	ND<10	FALSE
GWC-19R	12/18/2018	ND<10	FALSE
GWC-19R	6/11/2019	ND<10	FALSE
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GWC-22	6/23/2020	ND<10	FALSE
GWC-22	12/17/2020	ND<10	FALSE
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GWC-23	6/14/2017	ND<10	FALSE
GWC-23	12/11/2017	ND<10	FALSE
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GWC-23	12/16/2020	ND<10	FALSE
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GWC-23A	12/6/2016	ND<10	FALSE
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GWC-7	6/12/2017	ND<10	FALSE
GWC-7	12/12/2017	ND<10	FALSE
GWC-7	6/19/2018	ND<10	FALSE
GWC-7	12/18/2018	ND<10	FALSE
GWC-7	6/12/2019	ND<10	FALSE

GWC-7	12/11/2019	ND<10	FALSE
GWC-7	6/24/2020	ND<10	FALSE
GWC-7	12/17/2020	ND<10	FALSE
GWC-7	6/15/2021	ND<10	FALSE
GWC-7	12/13/2021	ND<10	FALSE
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GWC-8	6/23/2020	ND<10	FALSE
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GWC-8	6/16/2021	ND<10	FALSE
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GWC-16A	12/11/2019	ND<10	FALSE
GWC-16A	6/23/2020	ND<10	FALSE
GWC-16A	12/17/2020	ND<10	FALSE
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GWC-4	6/16/2016	ND<10	FALSE
GWC-4	12/7/2016	ND<10	FALSE
GWC-4	6/20/2018	ND<10	FALSE
GWC-4	6/23/2020	ND<10	FALSE
GWC-4	12/17/2020	ND<10	FALSE
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GWC-4A	12/11/2019	ND<10	FALSE
GWC-4A	6/23/2020	ND<10	FALSE
GWC-4A	12/17/2020	ND<10	FALSE
GWC-4A	6/17/2021	ND<10	FALSE
GWC-4A	12/15/2021	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Chloroethane
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.2217%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
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GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
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GWC-13	12/11/2019	ND<2	FALSE

GWC-13	6/23/2020	ND<2	FALSE
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GWC-13	12/15/2021	ND<2	FALSE
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GWC-14A	**6/13/2017**	**5.8**	**TRUE**
GWC-14A	**12/12/2017**	**7.7**	**TRUE**
GWC-14A	**6/20/2018**	**8.5**	**TRUE**
GWC-14A	**12/19/2018**	**5.4**	**TRUE**
GWC-14A	**6/11/2019**	**4.4**	**TRUE**
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GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**2.8**	**TRUE**
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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-15	12/17/2020	ND<2	FALSE
GWC-15	6/16/2021	ND<2	FALSE
GWC-15	12/14/2021	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-19R	12/15/2020	ND<2	FALSE
GWC-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	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-22	12/17/2020	ND<2	FALSE
GWC-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	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
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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-23	12/16/2020	ND<2	FALSE
GWC-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	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-23A	12/16/2020	ND<2	FALSE
GWC-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	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-7	12/17/2020	ND<2	FALSE
GWC-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	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-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	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
GWC-8A	12/15/2020	ND<2	FALSE
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	**12/8/2016**	**2.2**	**TRUE**
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
GWC-8R	12/15/2020	ND<2	FALSE
GWC-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**3.3**	**TRUE**
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-16A	12/17/2020	ND<2	FALSE
GWC-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	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-4	12/17/2020	ND<2	FALSE
GWC-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.2846%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	ND<2	FALSE
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-17	**12/15/2020**	**22**	**TRUE**
GWC-17	**6/14/2021**	**2.2**	**TRUE**
GWC-17	**12/14/2021**	**7.6**	**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**
GWC-18	**12/9/2019**	**30**	**TRUE**
GWC-18	**6/23/2020**	**10**	**TRUE**
GWC-18	**12/15/2020**	**26**	**TRUE**
GWC-18	**6/14/2021**	**6.2**	**TRUE**
GWC-18	**12/14/2021**	**10**	**TRUE**
GWC-24	**6/13/2016**	**5.2**	**TRUE**
GWC-24	**12/7/2016**	**5.4**	**TRUE**
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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-24	**12/15/2020**	**3.5**	**TRUE**
GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	ND<2	FALSE
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GWA-1A	12/9/2019	ND<2	FALSE
GWA-1A	6/23/2020	ND<2	FALSE
GWA-1A	12/17/2020	ND<2	FALSE
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
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GWC-10	6/24/2020	ND<2	FALSE
GWC-10	12/15/2020	ND<2	FALSE
GWC-10	6/15/2021	ND<2	FALSE
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GWC-5	12/12/2017	ND<2	FALSE
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GWC-5	12/17/2020	ND<2	FALSE
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GWC-6	6/21/2018	ND<2	FALSE
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GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
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GWC-9	12/13/2021	ND<2	FALSE
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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-13	12/15/2020	ND<2	FALSE
GWC-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
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GWC-14	6/11/2019	ND<2	FALSE
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GWC-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	ND<2	FALSE
GWC-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
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**
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-14A	**12/15/2020**	**69**	**TRUE**
GWC-14A	**6/15/2021**	**59**	**TRUE**
GWC-14A	**12/14/2021**	**77**	**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-14R	**12/17/2020**	**28**	**TRUE**
GWC-14R	**6/16/2021**	**26**	**TRUE**
GWC-14R	**12/14/2021**	**24**	**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-15	**12/17/2020**	**110**	**TRUE**
GWC-15	**6/16/2021**	**130**	**TRUE**
GWC-15	**12/14/2021**	**140**	**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-19R	**12/15/2020**	**7.9**	**TRUE**
GWC-19R	**6/14/2021**	**5.3**	**TRUE**
GWC-19R	**12/14/2021**	**7.9**	**TRUE**
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GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
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GWC-22	12/11/2019	ND<2	FALSE
GWC-22	6/23/2020	ND<2	FALSE
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GWC-23	6/14/2021	ND<2	FALSE
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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-23A	12/16/2020	ND<2	FALSE
GWC-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	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-7	12/17/2020	ND<2	FALSE
GWC-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	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-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	ND<2	FALSE
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**
GWC-8A	**12/15/2020**	**31**	**TRUE**
GWC-8A	**6/16/2021**	**24**	**TRUE**
GWC-8A	**12/15/2021**	**24**	**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**
GWC-8R	**12/15/2020**	**30**	**TRUE**
GWC-8R	**6/16/2021**	**32**	**TRUE**
GWC-8R	**12/15/2021**	**24**	**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-16A	**12/17/2020**	**2.3**	**TRUE**
GWC-16A	**6/16/2021**	**2.1**	**TRUE**
GWC-16A	12/16/2021	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-4	12/17/2020	ND<2	FALSE
GWC-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 91.9395%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	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-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
GWC-18	**6/13/2016**	**4**	**TRUE**
GWC-18	**12/6/2016**	**6.6**	**TRUE**
GWC-18	**6/14/2017**	**4.1**	**TRUE**
GWC-18	**12/13/2017**	**6.5**	**TRUE**
GWC-18	**6/19/2018**	**4.6**	**TRUE**
GWC-18	**12/18/2018**	**7**	**TRUE**
GWC-18	**6/11/2019**	**3.9**	**TRUE**
GWC-18	**12/9/2019**	**7.4**	**TRUE**
GWC-18	**6/23/2020**	**5.7**	**TRUE**
GWC-18	**12/15/2020**	**6.4**	**TRUE**
GWC-18	**6/14/2021**	**3.1**	**TRUE**
GWC-18	**12/14/2021**	**3.4**	**TRUE**
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-24	12/15/2020	ND<2	FALSE
GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	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-1A	12/17/2020	ND<2	FALSE
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
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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-10	12/15/2020	ND<2	FALSE
GWC-10	6/15/2021	ND<2	FALSE
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GWC-10A	6/14/2016	ND<2	FALSE
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GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE
GWC-11	12/15/2020	ND<2	FALSE
GWC-11	6/15/2021	ND<2	FALSE

GWC-11	12/13/2021	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
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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-12	12/15/2020	ND<2	FALSE
GWC-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
GWC-12A	12/7/2016	ND<2	FALSE
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GWC-12A	12/9/2019	ND<2	FALSE
GWC-12A	6/24/2020	ND<2	FALSE
GWC-12A	12/15/2020	ND<2	FALSE
GWC-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	ND<2	FALSE
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GWC-2	12/8/2016	ND<2	FALSE
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GWC-5	12/10/2019	ND<2	FALSE
GWC-5	6/23/2020	ND<2	FALSE
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GWC-6	12/17/2020	ND<2	FALSE
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GWC-9	6/15/2017	ND<2	FALSE
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GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	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-13	12/15/2020	ND<2	FALSE
GWC-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
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GWC-14	6/20/2018	ND<2	FALSE
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GWC-14A	6/15/2021	ND<2	FALSE
GWC-14A	12/14/2021	ND<2	FALSE
GWC-14R	**6/15/2016**	**2.2**	**TRUE**
GWC-14R	**12/8/2016**	**2.5**	**TRUE**
GWC-14R	**6/13/2017**	**3.2**	**TRUE**
GWC-14R	12/12/2017	2	FALSE
GWC-14R	6/20/2018	2	FALSE
GWC-14R	12/19/2018	ND<2	FALSE
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GWC-14R	12/17/2020	ND<2	FALSE
GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
GWC-15	**6/15/2016**	**9**	**TRUE**
GWC-15	**12/8/2016**	**16**	**TRUE**
GWC-15	**6/14/2017**	**7.3**	**TRUE**
GWC-15	**12/13/2017**	**2.7**	**TRUE**
GWC-15	**6/19/2018**	**5**	**TRUE**
GWC-15	**12/19/2018**	**9.7**	**TRUE**
GWC-15	**6/11/2019**	**50**	**TRUE**
GWC-15	**12/10/2019**	**31**	**TRUE**
GWC-15	**6/25/2020**	**48**	**TRUE**
GWC-15	**12/17/2020**	**19**	**TRUE**
GWC-15	**6/16/2021**	**29**	**TRUE**
GWC-15	**12/14/2021**	**12**	**TRUE**
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-19R	12/15/2020	ND<2	FALSE
GWC-19R	6/14/2021	ND<2	FALSE
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GWC-23	12/11/2019	ND<2	FALSE
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GWC-7	12/11/2019	ND<2	FALSE
GWC-7	6/24/2020	ND<2	FALSE
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GWC-8A	12/11/2019	ND<2	FALSE
GWC-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	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-8R	12/15/2020	ND<2	FALSE
GWC-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**6.3**	**TRUE**
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-16A	12/17/2020	ND<2	FALSE
GWC-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	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-4	12/17/2020	ND<2	FALSE
GWC-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 90.6801%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	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-17	12/15/2020	ND<2	FALSE
GWC-17	6/14/2021	ND<2	FALSE
GWC-17	12/14/2021	ND<2	FALSE
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
GWC-18	**12/9/2019**	**2.6**	**TRUE**
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	**12/15/2020**	**2.4**	**TRUE**
GWC-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	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-24	12/15/2020	ND<2	FALSE
GWC-24	6/14/2021	ND<2	FALSE
GWC-24	12/14/2021	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-1A	12/17/2020	ND<2	FALSE
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
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-10	12/15/2020	ND<2	FALSE
GWC-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	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-10A	12/15/2020	ND<2	FALSE
GWC-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	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-11	12/15/2020	ND<2	FALSE
GWC-11	6/15/2021	ND<2	FALSE

GWC-11	12/13/2021	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-12	12/15/2020	ND<2	FALSE
GWC-12	6/15/2021	ND<2	FALSE
GWC-12	12/13/2021	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
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-12A	12/15/2020	ND<2	FALSE
GWC-12A	6/15/2021	ND<2	FALSE
GWC-12A	12/13/2021	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-2	12/16/2020	ND<2	FALSE
GWC-2	6/15/2021	ND<2	FALSE
GWC-2	12/15/2021	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
GWC-3	12/16/2020	ND<2	FALSE
GWC-3	6/15/2021	ND<2	FALSE
GWC-3	12/15/2021	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
GWC-3A	12/16/2020	ND<2	FALSE
GWC-3A	6/14/2021	ND<2	FALSE
GWC-3A	12/15/2021	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-5	12/17/2020	ND<2	FALSE
GWC-5	6/15/2021	ND<2	FALSE
GWC-5	12/13/2021	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-6	12/17/2020	ND<2	FALSE
GWC-6	6/15/2021	ND<2	FALSE
GWC-6	12/13/2021	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-9	12/17/2020	ND<2	FALSE
GWC-9	6/15/2021	ND<2	FALSE
GWC-9	12/13/2021	ND<2	FALSE
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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-13	12/15/2020	ND<2	FALSE
GWC-13	6/15/2021	ND<2	FALSE
GWC-13	12/15/2021	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
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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-14	12/17/2020	ND<2	FALSE
GWC-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
GWC-14A	**6/15/2016**	**4.3**	**TRUE**
GWC-14A	**12/8/2016**	**6.8**	**TRUE**
GWC-14A	**6/13/2017**	**3.5**	**TRUE**
GWC-14A	**12/12/2017**	**3.8**	**TRUE**
GWC-14A	**6/20/2018**	**2.1**	**TRUE**
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-14A	12/15/2020	ND<2	FALSE
GWC-14A	6/15/2021	ND<2	FALSE
GWC-14A	12/14/2021	ND<2	FALSE
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-14R	**12/17/2020**	**3.9**	**TRUE**
GWC-14R	**6/16/2021**	**3.9**	**TRUE**
GWC-14R	**12/14/2021**	**2.8**	**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-15	**12/17/2020**	**45**	**TRUE**
GWC-15	**6/16/2021**	**71**	**TRUE**
GWC-15	**12/14/2021**	**48**	**TRUE**
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-19R	12/15/2020	ND<2	FALSE
GWC-19R	6/14/2021	ND<2	FALSE
GWC-19R	12/14/2021	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-22	12/17/2020	ND<2	FALSE
GWC-22	6/14/2021	ND<2	FALSE
GWC-22	12/13/2021	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-23	12/16/2020	ND<2	FALSE
GWC-23	6/14/2021	ND<2	FALSE
GWC-23	12/13/2021	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-23A	12/16/2020	ND<2	FALSE
GWC-23A	6/14/2021	ND<2	FALSE
GWC-23A	12/13/2021	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-7	12/17/2020	ND<2	FALSE
GWC-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	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-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
GWC-8	12/15/2021	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
GWC-8A	12/15/2020	ND<2	FALSE
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	**6/13/2017**	**2.9**	**TRUE**
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	**6/20/2018**	**5.3**	**TRUE**
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-8R	12/15/2020	ND<2	FALSE
GWC-8R	**6/16/2021**	**2.1**	**TRUE**
GWC-8R	12/15/2021	ND<2	FALSE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**3.9**	**TRUE**
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-16A	12/17/2020	ND<2	FALSE
GWC-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	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-4	12/17/2020	ND<2	FALSE
GWC-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Vinyl chloride
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.4736%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-3	12/16/2020	ND<2	FALSE
GWA-3	6/14/2021	ND<2	FALSE
GWA-3	12/14/2021	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
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GWC-17	6/23/2020	ND<2	FALSE
GWC-17	12/15/2020	ND<2	FALSE
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GWC-18	12/9/2019	ND<2	FALSE
GWC-18	6/23/2020	ND<2	FALSE
GWC-18	12/15/2020	ND<2	FALSE
GWC-18	6/14/2021	ND<2	FALSE
GWC-18	12/14/2021	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-24	12/15/2020	ND<2	FALSE
GWC-24	6/14/2021	ND<2	FALSE
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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-1A	12/17/2020	ND<2	FALSE
GWA-1A	6/17/2021	ND<2	FALSE
GWA-1A	12/16/2021	ND<2	FALSE
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GWC-10	12/8/2016	ND<2	FALSE
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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-10	12/15/2020	ND<2	FALSE
GWC-10	6/15/2021	ND<2	FALSE
GWC-10	12/15/2021	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
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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
GWC-10A	12/15/2020	ND<2	FALSE
GWC-10A	6/15/2021	ND<2	FALSE
GWC-10A	12/15/2021	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
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GWC-11	12/12/2019	ND<2	FALSE
GWC-11	6/24/2020	ND<2	FALSE
GWC-11	12/15/2020	ND<2	FALSE
GWC-11	6/15/2021	ND<2	FALSE

GWC-11	12/13/2021	ND<2	FALSE
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GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
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GWC-12	6/24/2020	ND<2	FALSE
GWC-12	12/15/2020	ND<2	FALSE
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GWC-12	12/13/2021	ND<2	FALSE
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GWC-12A	12/9/2019	ND<2	FALSE
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GWC-12A	12/15/2020	ND<2	FALSE
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GWC-12A	12/13/2021	ND<2	FALSE
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GWC-2	12/8/2016	ND<2	FALSE
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GWC-2	12/10/2019	ND<2	FALSE
GWC-2	6/22/2020	ND<2	FALSE
GWC-2	12/16/2020	ND<2	FALSE
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GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
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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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GWC-3	12/15/2021	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
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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
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GWC-9	12/12/2019	ND<2	FALSE
GWC-9	6/24/2020	ND<2	FALSE
GWC-9	12/17/2020	ND<2	FALSE
GWC-9	6/15/2021	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
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GWC-13	12/11/2019	ND<2	FALSE

GWC-13	6/23/2020	ND<2	FALSE
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GWC-14	6/15/2016	ND<2	FALSE
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GWC-14	6/24/2020	ND<2	FALSE
GWC-14	12/17/2020	ND<2	FALSE
GWC-14	6/15/2021	ND<2	FALSE
GWC-14	12/15/2021	ND<2	FALSE
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GWC-14A	**12/8/2016**	**5.7**	**TRUE**
GWC-14A	**6/13/2017**	**3.5**	**TRUE**
GWC-14A	**12/12/2017**	**6**	**TRUE**
GWC-14A	**6/20/2018**	**6.2**	**TRUE**
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-14A	**12/15/2020**	**11**	**TRUE**
GWC-14A	**6/15/2021**	**12**	**TRUE**
GWC-14A	**12/14/2021**	**19**	**TRUE**
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GWC-14R	12/8/2016	ND<2	FALSE
GWC-14R	6/13/2017	ND<2	FALSE
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GWC-14R	6/16/2021	ND<2	FALSE
GWC-14R	12/14/2021	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**2.3**	**TRUE**
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GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
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GWC-15	6/11/2019	ND<2	FALSE
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GWC-15	6/25/2020	ND<2	FALSE
GWC-15	12/17/2020	ND<2	FALSE
GWC-15	6/16/2021	ND<2	FALSE
GWC-15	12/14/2021	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
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GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
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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-7	12/17/2020	ND<2	FALSE
GWC-7	6/15/2021	ND<2	FALSE
GWC-7	12/13/2021	ND<2	FALSE
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GWC-8	12/16/2020	ND<2	FALSE
GWC-8	6/16/2021	ND<2	FALSE
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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
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GWC-8A	6/23/2020	ND<2	FALSE
GWC-8A	12/15/2020	ND<2	FALSE
GWC-8A	6/16/2021	ND<2	FALSE
GWC-8A	12/15/2021	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
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GWC-8R	12/11/2019	ND<2	FALSE
GWC-8R	6/23/2020	ND<2	FALSE
GWC-8R	12/15/2020	ND<2	FALSE
GWC-8R	6/16/2021	ND<2	FALSE
GWC-8R	12/15/2021	ND<2	FALSE
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**4.8**	**TRUE**
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-16A	12/17/2020	ND<2	FALSE
GWC-16A	6/16/2021	ND<2	FALSE
GWC-16A	12/16/2021	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-4	12/17/2020	ND<2	FALSE
GWC-4	6/16/2021	ND<2	FALSE
GWC-4	12/14/2021	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-4A	12/17/2020	ND<2	FALSE
GWC-4A	6/17/2021	ND<2	FALSE
GWC-4A	12/15/2021	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 34.3407%
Background measurements (n) = 24
Maximum Background Concentration = 39.5
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-1A	**6/10/2019**	**41**	**TRUE**
GWA-1A	12/9/2019	30	FALSE
GWA-1A	6/23/2020	30.3	FALSE
GWA-1A	12/17/2020	31.9	FALSE
GWA-1A	6/17/2021	37.4	FALSE
GWA-1A	12/16/2021	32.3	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
GWA-3	12/17/2020	ND<20	FALSE
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	ND<20	FALSE
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-17	**12/16/2020**	**40.7**	**TRUE**
GWC-17	6/15/2021	38.3	FALSE
GWC-17	12/15/2021	39.2	FALSE
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-18	**12/16/2020**	**160**	**TRUE**
GWC-18	**6/15/2021**	**165**	**TRUE**
GWC-18	**12/15/2021**	**141**	**TRUE**
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
GWC-24	6/15/2021	ND<20	FALSE
GWC-10	6/15/2016	21	FALSE
GWC-10	12/9/2016	20	FALSE
GWC-10	6/16/2017	20	FALSE
GWC-10	**12/13/2017**	**48**	**TRUE**
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-10	12/16/2020	ND<20	FALSE
GWC-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	ND<20	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-10A	12/16/2020	32.5	FALSE
GWC-10A	6/16/2021	31.5	FALSE
GWC-10A	12/16/2021	33.5	FALSE
GWC-11	6/15/2016	24	FALSE
GWC-11	12/8/2016	22	FALSE
GWC-11	6/15/2017	24	FALSE
GWC-11	**12/14/2017**	**42**	**TRUE**
GWC-11	6/20/2018	21	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	**6/13/2019**	**40**	**TRUE**
GWC-11	12/13/2019	35.9	FALSE
GWC-11	6/25/2020	25.9	FALSE
GWC-11	12/16/2020	25.4	FALSE
GWC-11	6/16/2021	22.1	FALSE
GWC-11	12/14/2021	23.3	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-12	12/22/2020	22.6	FALSE
GWC-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
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
GWC-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	ND<20	FALSE
GWC-14	6/15/2016	26	FALSE
GWC-14	6/21/2018	35	FALSE
GWC-14	6/12/2019	35	FALSE
GWC-14	**12/11/2019**	**41.2**	**TRUE**
GWC-14	6/25/2020	ND<20	FALSE
GWC-14	**12/18/2020**	**72.2**	**TRUE**
GWC-14	6/16/2021	24	FALSE
GWC-14	**12/16/2021**	**47.3**	**TRUE**
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	12/11/2019	ND<20	FALSE
GWC-2	6/23/2020	27.5	FALSE
GWC-2	12/17/2020	ND<20	FALSE
GWC-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	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
GWC-23A	12/17/2020	ND<20	FALSE
GWC-23A	6/15/2021	ND<20	FALSE

GWC-23A	12/14/2021	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
GWC-3	12/17/2020	ND<20	FALSE
GWC-3	6/16/2021	ND<20	FALSE
GWC-3	12/16/2021	ND<20	FALSE
GWC-3A	6/15/2016	38	FALSE
GWC-3A	**12/9/2016**	**43**	**TRUE**
GWC-3A	**6/16/2017**	**40**	**TRUE**
GWC-3A	12/13/2017	38	FALSE
GWC-3A	6/21/2018	39	FALSE
GWC-3A	12/18/2018	38	FALSE
GWC-3A	**6/12/2019**	**46**	**TRUE**
GWC-3A	**12/11/2019**	**40.7**	**TRUE**
GWC-3A	6/25/2020	37.1	FALSE
GWC-3A	12/17/2020	31.6	FALSE
GWC-3A	6/15/2021	36.5	FALSE
GWC-3A	12/16/2021	32.8	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-5	12/18/2020	ND<20	FALSE
GWC-5	6/16/2021	ND<20	FALSE
GWC-5	12/14/2021	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-6	6/25/2020	ND<20	FALSE
GWC-6	12/18/2020	ND<20	FALSE
GWC-6	6/16/2021	ND<20	FALSE
GWC-6	12/14/2021	ND<20	FALSE
GWC-9	**6/15/2016**	**80**	**TRUE**
GWC-9	**12/9/2016**	**67**	**TRUE**
GWC-9	**6/16/2017**	**58**	**TRUE**
GWC-9	**12/14/2017**	**54**	**TRUE**
GWC-9	**6/21/2018**	**73**	**TRUE**

GWC-9	**12/19/2018**	**53**	**TRUE**
GWC-9	**6/13/2019**	**80**	**TRUE**
GWC-9	**12/13/2019**	**67.9**	**TRUE**
GWC-9	**6/25/2020**	**78.5**	**TRUE**
GWC-9	**12/18/2020**	**90**	**TRUE**
GWC-9	**6/16/2021**	**64.3**	**TRUE**
GWC-9	**12/14/2021**	**100**	**TRUE**
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-13	12/16/2020	ND<20	FALSE
GWC-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<20	FALSE
GWC-14A	**6/16/2016**	**200**	**TRUE**
GWC-14A	**12/8/2016**	**220**	**TRUE**
GWC-14A	**6/13/2017**	**210**	**TRUE**
GWC-14A	**12/13/2017**	**180**	**TRUE**
GWC-14A	**6/21/2018**	**190**	**TRUE**
GWC-14A	**12/19/2018**	**180**	**TRUE**
GWC-14A	**6/12/2019**	**170**	**TRUE**
GWC-14A	**12/11/2019**	**170**	**TRUE**
GWC-14A	**6/24/2020**	**171**	**TRUE**
GWC-14A	**12/16/2020**	**171**	**TRUE**
GWC-14A	**6/16/2021**	**173**	**TRUE**
GWC-14A	**12/15/2021**	**179**	**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-15	**12/17/2020**	**54.7**	**TRUE**
GWC-15	**6/16/2021**	**69.4**	**TRUE**
GWC-15	**12/14/2021**	**73.4**	**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**
GWC-19R	**12/16/2020**	**76.5**	**TRUE**

GWC-19R	**6/15/2021**	**82.2**	**TRUE**
GWC-19R	**12/15/2021**	**87**	**TRUE**
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-22	12/18/2020	20.4	FALSE
GWC-22	6/15/2021	28	FALSE
GWC-22	12/14/2021	24.6	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-23	12/17/2020	ND<20	FALSE
GWC-23	6/15/2021	ND<20	FALSE
GWC-23	12/14/2021	ND<20	FALSE
GWC-7	**6/16/2016**	**46**	**TRUE**
GWC-7	**12/9/2016**	**46**	**TRUE**
GWC-7	**6/13/2017**	**52**	**TRUE**
GWC-7	**12/13/2017**	**46**	**TRUE**
GWC-7	**6/20/2018**	**49**	**TRUE**
GWC-7	**12/19/2018**	**51**	**TRUE**
GWC-7	**6/13/2019**	**48**	**TRUE**
GWC-7	**12/12/2019**	**49.9**	**TRUE**
GWC-7	6/25/2020	36.4	FALSE
GWC-7	12/18/2020	38.8	FALSE
GWC-7	6/16/2021	36.9	FALSE
GWC-7	**12/14/2021**	**41.8**	**TRUE**
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-8	12/17/2020	33	FALSE
GWC-8	**6/17/2021**	**42.5**	**TRUE**
GWC-8	12/16/2021	33.5	FALSE
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-8A	**12/16/2020**	**46.8**	**TRUE**
GWC-8A	**6/17/2021**	**52.4**	**TRUE**
GWC-8A	**12/16/2021**	**49.7**	**TRUE**
GWC-16A	6/17/2016	29	FALSE
GWC-16A	12/8/2016	35	FALSE
GWC-16A	**6/15/2017**	**170**	**TRUE**
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
GWC-16A	12/17/2020	25.2	FALSE
GWC-16A	6/16/2021	24.3	FALSE
GWC-16A	12/16/2021	23.6	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
GWC-4	12/18/2020	31.5	FALSE
GWC-4	6/17/2021	24.5	FALSE
GWC-4	12/15/2021	21	FALSE
GWC-4A	6/17/2016	ND<20	FALSE
GWC-4A	**12/8/2016**	**59**	**TRUE**
GWC-4A	6/14/2017	33	FALSE
GWC-4A	**12/13/2017**	**81**	**TRUE**
GWC-4A	6/21/2018	22	FALSE
GWC-4A	12/18/2018	25	FALSE
GWC-4A	**6/12/2019**	**74**	**TRUE**
GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	29.9	FALSE
GWC-4A	12/18/2020	30.5	FALSE
GWC-4A	6/18/2021	35.7	FALSE
GWC-4A	12/16/2021	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Chromium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.6264%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-1A	12/17/2020	ND<10	FALSE
GWA-1A	6/17/2021	ND<10	FALSE
GWA-1A	12/16/2021	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
GWA-3	12/17/2020	ND<10	FALSE
GWA-3	6/15/2021	ND<10	FALSE
GWA-3	12/15/2021	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-17	12/16/2020	ND<10	FALSE
GWC-17	6/15/2021	ND<10	FALSE
GWC-17	12/15/2021	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-18	12/16/2020	ND<10	FALSE
GWC-18	6/15/2021	ND<10	FALSE
GWC-18	12/15/2021	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
GWC-24	6/15/2021	ND<10	FALSE
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-10	12/16/2020	ND<10	FALSE
GWC-10	6/16/2021	ND<10	FALSE
GWC-10	12/16/2021	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-10A	12/16/2020	ND<10	FALSE
GWC-10A	6/16/2021	ND<10	FALSE
GWC-10A	12/16/2021	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-11	12/16/2020	ND<10	FALSE
GWC-11	6/16/2021	ND<10	FALSE
GWC-11	12/14/2021	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-12	12/22/2020	ND<10	FALSE
GWC-12	6/16/2021	ND<10	FALSE
GWC-12	12/14/2021	ND<10	FALSE
GWC-12A	6/15/2016	ND<10	FALSE
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-12A	12/16/2020	ND<10	FALSE
GWC-12A	6/16/2021	ND<10	FALSE
GWC-12A	**12/14/2021**	**18.4**	**TRUE**
GWC-14	6/15/2016	ND<10	FALSE
GWC-14	6/21/2018	ND<10	FALSE
GWC-14	6/12/2019	ND<10	FALSE
GWC-14	12/11/2019	ND<10	FALSE
GWC-14	6/25/2020	ND<10	FALSE
GWC-14	12/18/2020	ND<10	FALSE
GWC-14	6/16/2021	ND<10	FALSE
GWC-14	12/16/2021	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	12/11/2019	ND<10	FALSE
GWC-2	6/23/2020	ND<10	FALSE
GWC-2	12/17/2020	ND<10	FALSE
GWC-2	6/16/2021	ND<10	FALSE
GWC-2	12/16/2021	ND<10	FALSE
GWC-23A	6/15/2016	ND<10	FALSE
GWC-23A	12/7/2016	ND<10	FALSE
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GWC-23A	6/15/2021	ND<10	FALSE

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GWC-5	12/18/2020	ND<10	FALSE
GWC-5	6/16/2021	ND<10	FALSE
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GWC-9	6/16/2017	ND<10	FALSE
GWC-9	12/14/2017	ND<10	FALSE
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GWC-19R	12/10/2019	ND<10	FALSE
GWC-19R	6/24/2020	ND<10	FALSE
GWC-19R	12/16/2020	ND<10	FALSE

GWC-19R	6/15/2021	ND<10	FALSE
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GWC-22	12/14/2021	ND<10	FALSE
GWC-23	6/16/2016	ND<10	FALSE
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GWC-4A	**12/13/2017**	**19**	**TRUE**
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GWC-4A	12/18/2018	ND<10	FALSE
GWC-4A	**6/12/2019**	**26**	**TRUE**
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GWC-4A	6/24/2020	ND<10	FALSE
GWC-4A	12/18/2020	ND<10	FALSE
GWC-4A	6/18/2021	ND<10	FALSE
GWC-4A	12/16/2021	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.1319%
Background measurements (n) = 24
Maximum Background Concentration = 40
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	6/14/2016	ND<40	FALSE
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GWA-1A	6/12/2017	ND<40	FALSE
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GWA-1A	12/9/2019	ND<40	FALSE
GWA-1A	6/23/2020	ND<40	FALSE
GWA-1A	12/17/2020	ND<40	FALSE
GWA-1A	6/17/2021	ND<40	FALSE
GWA-1A	12/16/2021	ND<40	FALSE
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GWA-3	12/11/2019	ND<40	FALSE
GWA-3	6/23/2020	ND<40	FALSE
GWA-3	12/17/2020	ND<40	FALSE
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GWC-12A	12/14/2021	ND<40	FALSE
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GWC-14	**6/21/2018**	**42**	**TRUE**
GWC-14	**6/12/2019**	**57**	**TRUE**
GWC-14	**12/11/2019**	**50.3**	**TRUE**
GWC-14	**6/25/2020**	**95.1**	**TRUE**
GWC-14	**12/18/2020**	**55.5**	**TRUE**
GWC-14	**6/16/2021**	**87.6**	**TRUE**
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GWC-9	12/18/2020	ND<40	FALSE
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GWC-13	12/16/2021	ND<40	FALSE
GWC-14A	**6/16/2016**	**490**	**TRUE**
GWC-14A	**12/8/2016**	**380**	**TRUE**
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GWC-14A	**12/13/2017**	**280**	**TRUE**
GWC-14A	**6/21/2018**	**310**	**TRUE**
GWC-14A	**12/19/2018**	**290**	**TRUE**
GWC-14A	**6/12/2019**	**330**	**TRUE**
GWC-14A	**12/11/2019**	**228**	**TRUE**
GWC-14A	**6/24/2020**	**301**	**TRUE**
GWC-14A	**12/16/2020**	**298**	**TRUE**
GWC-14A	**6/16/2021**	**306**	**TRUE**
GWC-14A	**12/15/2021**	**192**	**TRUE**
GWC-15	6/16/2016	ND<40	FALSE
GWC-15	12/8/2016	ND<40	FALSE
GWC-15	6/14/2017	ND<40	FALSE
GWC-15	12/14/2017	ND<40	FALSE
GWC-15	6/20/2018	ND<40	FALSE
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-15	12/17/2020	ND<40	FALSE
GWC-15	6/16/2021	ND<40	FALSE
GWC-15	12/14/2021	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
GWC-19R	12/16/2020	ND<40	FALSE

GWC-19R	**6/15/2021**	**45.2**	**TRUE**
GWC-19R	**12/15/2021**	**40.4**	**TRUE**
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-22	12/18/2020	ND<40	FALSE
GWC-22	6/15/2021	ND<40	FALSE
GWC-22	12/14/2021	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-23	12/17/2020	ND<40	FALSE
GWC-23	6/15/2021	ND<40	FALSE
GWC-23	12/14/2021	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-7	12/18/2020	ND<40	FALSE
GWC-7	6/16/2021	ND<40	FALSE
GWC-7	12/14/2021	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-8	12/17/2020	ND<40	FALSE
GWC-8	6/17/2021	ND<40	FALSE
GWC-8	12/16/2021	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-8A	12/16/2020	ND<40	FALSE
GWC-8A	6/17/2021	ND<40	FALSE
GWC-8A	12/16/2021	ND<40	FALSE
GWC-16A	6/17/2016	ND<40	FALSE
GWC-16A	12/8/2016	ND<40	FALSE
GWC-16A	**6/15/2017**	**81**	**TRUE**
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
GWC-16A	12/17/2020	ND<40	FALSE
GWC-16A	6/16/2021	ND<40	FALSE
GWC-16A	12/16/2021	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
GWC-4	12/18/2020	ND<40	FALSE
GWC-4	6/17/2021	ND<40	FALSE
GWC-4	12/15/2021	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
GWC-4A	12/18/2020	ND<40	FALSE
GWC-4A	6/18/2021	ND<40	FALSE
GWC-4A	12/16/2021	ND<40	FALSE

Non-Parametric Tolerance Interval

Parameter: Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.6044%
Background measurements (n) = 24
Maximum Background Concentration = 20
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-1A	12/17/2020	ND<20	FALSE
GWA-1A	6/17/2021	ND<20	FALSE
GWA-1A	12/16/2021	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
GWA-3	12/17/2020	ND<20	FALSE
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	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-17	12/16/2020	ND<20	FALSE
GWC-17	6/15/2021	ND<20	FALSE
GWC-17	12/15/2021	ND<20	FALSE
GWC-18	6/14/2016	ND<20	FALSE
GWC-18	**12/7/2016**	**64**	**TRUE**
GWC-18	**6/15/2017**	**34**	**TRUE**
GWC-18	12/14/2017	ND<20	FALSE
GWC-18	6/20/2018	ND<20	FALSE
GWC-18	12/19/2018	ND<20	FALSE

GWC-18	**6/12/2019**	**24**	**TRUE**
GWC-18	**12/10/2019**	**29.8**	**TRUE**
GWC-18	6/24/2020	ND<20	FALSE
GWC-18	12/16/2020	ND<20	FALSE
GWC-18	6/15/2021	ND<20	FALSE
GWC-18	**12/15/2021**	**33.7**	**TRUE**
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
GWC-24	6/15/2021	ND<20	FALSE
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
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GWC-10	6/25/2020	ND<20	FALSE
GWC-10	12/16/2020	ND<20	FALSE
GWC-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	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-10A	12/16/2020	ND<20	FALSE
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GWC-11	6/15/2016	ND<20	FALSE
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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-11	12/16/2020	ND<20	FALSE
GWC-11	6/16/2021	ND<20	FALSE
GWC-11	12/14/2021	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
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GWC-12	12/22/2020	ND<20	FALSE
GWC-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
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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
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GWC-12A	6/25/2020	ND<20	FALSE
GWC-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	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
GWC-14	12/11/2019	ND<20	FALSE
GWC-14	6/25/2020	ND<20	FALSE
GWC-14	12/18/2020	ND<20	FALSE
GWC-14	6/16/2021	ND<20	FALSE
GWC-14	12/16/2021	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
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GWC-23A	12/17/2020	ND<20	FALSE
GWC-23A	6/15/2021	ND<20	FALSE

GWC-23A	12/14/2021	ND<20	FALSE
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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
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GWC-3A	6/25/2020	ND<20	FALSE
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GWC-3A	6/15/2021	ND<20	FALSE
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GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
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GWC-5	6/24/2020	ND<20	FALSE
GWC-5	12/18/2020	ND<20	FALSE
GWC-5	6/16/2021	ND<20	FALSE
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GWC-6	12/14/2017	ND<20	FALSE
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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
GWC-9	12/18/2020	ND<20	FALSE
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GWC-13	12/8/2016	ND<20	FALSE
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GWC-13	12/16/2020	ND<20	FALSE
GWC-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<20	FALSE
GWC-14A	**6/16/2016**	**28**	**TRUE**
GWC-14A	**12/8/2016**	**27**	**TRUE**
GWC-14A	**6/13/2017**	**24**	**TRUE**
GWC-14A	**12/13/2017**	**21**	**TRUE**
GWC-14A	**6/21/2018**	**24**	**TRUE**
GWC-14A	12/19/2018	20	FALSE
GWC-14A	**6/12/2019**	**21**	**TRUE**
GWC-14A	12/11/2019	ND<20	FALSE
GWC-14A	**6/24/2020**	**22.2**	**TRUE**
GWC-14A	**12/16/2020**	**23.6**	**TRUE**
GWC-14A	**6/16/2021**	**22.2**	**TRUE**
GWC-14A	12/15/2021	ND<20	FALSE
GWC-15	6/16/2016	ND<20	FALSE
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GWC-19R	12/10/2019	ND<20	FALSE
GWC-19R	6/24/2020	ND<20	FALSE
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GWC-19R	6/15/2021	ND<20	FALSE
GWC-19R	12/15/2021	ND<20	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
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GWC-8	12/16/2021	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
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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-16A	12/17/2020	ND<20	FALSE
GWC-16A	6/16/2021	ND<20	FALSE
GWC-16A	12/16/2021	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
GWC-4	12/18/2020	ND<20	FALSE
GWC-4	6/17/2021	ND<20	FALSE
GWC-4	12/15/2021	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
GWC-4A	**6/12/2019**	**22**	**TRUE**
GWC-4A	12/12/2019	ND<20	FALSE
GWC-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	ND<20	FALSE
GWC-4A	6/18/2021	ND<20	FALSE
GWC-4A	12/16/2021	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Zinc
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 72.8022%
Background measurements (n) = 24
Maximum Background Concentration = 48
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
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
GWA-1A	12/17/2020	ND<20	FALSE
GWA-1A	6/17/2021	ND<20	FALSE
GWA-1A	12/16/2021	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	41	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWA-3	**12/11/2019**	**71.5**	**TRUE**
GWA-3	6/23/2020	20.3	FALSE
GWA-3	12/17/2020	ND<20	FALSE
GWA-3	6/15/2021	ND<20	FALSE
GWA-3	12/15/2021	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
GWC-17	12/16/2020	ND<20	FALSE
GWC-17	6/15/2021	ND<20	FALSE
GWC-17	12/15/2021	ND<20	FALSE
GWC-18	6/14/2016	ND<20	FALSE
GWC-18	**12/7/2016**	**49**	**TRUE**
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
GWC-18	12/16/2020	ND<20	FALSE
GWC-18	6/15/2021	ND<20	FALSE
GWC-18	12/15/2021	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
GWC-24	6/15/2021	ND<20	FALSE
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
GWC-10	**12/13/2019**	**86.4**	**TRUE**
GWC-10	6/25/2020	27.9	FALSE
GWC-10	12/16/2020	ND<20	FALSE
GWC-10	6/16/2021	ND<20	FALSE
GWC-10	12/16/2021	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-10A	12/16/2020	ND<20	FALSE
GWC-10A	6/16/2021	ND<20	FALSE
GWC-10A	12/16/2021	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-11	12/16/2020	ND<20	FALSE
GWC-11	6/16/2021	ND<20	FALSE
GWC-11	12/14/2021	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-12	12/22/2020	ND<20	FALSE
GWC-12	6/16/2021	ND<20	FALSE
GWC-12	12/14/2021	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
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-12A	12/16/2020	ND<20	FALSE
GWC-12A	6/16/2021	ND<20	FALSE
GWC-12A	12/14/2021	ND<20	FALSE
GWC-14	6/15/2016	20	FALSE
GWC-14	**6/21/2018**	**67**	**TRUE**
GWC-14	6/12/2019	ND<20	FALSE
GWC-14	12/11/2019	27.7	FALSE
GWC-14	6/25/2020	25.3	FALSE
GWC-14	12/18/2020	ND<20	FALSE
GWC-14	6/16/2021	ND<20	FALSE
GWC-14	12/16/2021	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	12/11/2019	25	FALSE
GWC-2	6/23/2020	27.8	FALSE
GWC-2	12/17/2020	ND<20	FALSE
GWC-2	6/16/2021	ND<20	FALSE
GWC-2	12/16/2021	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
GWC-23A	12/17/2020	ND<20	FALSE
GWC-23A	6/15/2021	ND<20	FALSE

GWC-23A	12/14/2021	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
GWC-3	12/17/2020	ND<20	FALSE
GWC-3	6/16/2021	ND<20	FALSE
GWC-3	12/16/2021	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-3A	12/17/2020	ND<20	FALSE
GWC-3A	6/15/2021	20.6	FALSE
GWC-3A	12/16/2021	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-5	12/18/2020	ND<20	FALSE
GWC-5	6/16/2021	ND<20	FALSE
GWC-5	12/14/2021	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-6	6/25/2020	ND<20	FALSE
GWC-6	12/18/2020	ND<20	FALSE
GWC-6	**6/16/2021**	**79**	**TRUE**
GWC-6	12/14/2021	ND<20	FALSE
GWC-9	**6/15/2016**	**54**	**TRUE**
GWC-9	**12/9/2016**	**140**	**TRUE**
GWC-9	**6/16/2017**	**73**	**TRUE**
GWC-9	12/14/2017	46	FALSE
GWC-9	6/21/2018	45	FALSE

GWC-9	12/19/2018	38	FALSE
GWC-9	**6/13/2019**	**60**	**TRUE**
GWC-9	**12/13/2019**	**78**	**TRUE**
GWC-9	6/25/2020	45.9	FALSE
GWC-9	12/18/2020	41.9	FALSE
GWC-9	6/16/2021	41.8	FALSE
GWC-9	**12/14/2021**	**49.9**	**TRUE**
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
GWC-13	12/16/2020	ND<20	FALSE
GWC-13	6/16/2021	ND<20	FALSE
GWC-13	12/16/2021	ND<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-14A	12/16/2020	ND<20	FALSE
GWC-14A	6/16/2021	ND<20	FALSE
GWC-14A	12/15/2021	26	FALSE
GWC-15	**6/16/2016**	**55**	**TRUE**
GWC-15	12/8/2016	ND<20	FALSE
GWC-15	**6/14/2017**	**90**	**TRUE**
GWC-15	**12/14/2017**	**60**	**TRUE**
GWC-15	**6/20/2018**	**56**	**TRUE**
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-15	12/17/2020	ND<20	FALSE
GWC-15	6/16/2021	ND<20	FALSE
GWC-15	12/14/2021	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
GWC-19R	12/16/2020	ND<20	FALSE

GWC-19R	6/15/2021	ND<20	FALSE
GWC-19R	12/15/2021	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	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-22	12/18/2020	ND<20	FALSE
GWC-22	6/15/2021	ND<20	FALSE
GWC-22	12/14/2021	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
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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-23	12/17/2020	ND<20	FALSE
GWC-23	6/15/2021	ND<20	FALSE
GWC-23	12/14/2021	ND<20	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
GWC-7	**12/19/2018**	**110**	**TRUE**
GWC-7	6/13/2019	23	FALSE
GWC-7	12/12/2019	42.2	FALSE
GWC-7	6/25/2020	ND<20	FALSE
GWC-7	12/18/2020	ND<20	FALSE
GWC-7	6/16/2021	ND<20	FALSE
GWC-7	12/14/2021	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
GWC-8	12/17/2020	ND<20	FALSE
GWC-8	6/17/2021	ND<20	FALSE
GWC-8	12/16/2021	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

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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
GWC-8A	12/16/2020	ND<20	FALSE
GWC-8A	6/17/2021	ND<20	FALSE
GWC-8A	12/16/2021	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	**6/15/2017**	**79**	**TRUE**
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-16A	12/17/2020	ND<20	FALSE
GWC-16A	6/16/2021	ND<20	FALSE
GWC-16A	12/16/2021	ND<20	FALSE
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-4	12/18/2020	ND<20	FALSE
GWC-4	6/17/2021	43.2	FALSE
GWC-4	12/15/2021	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
GWC-4A	**12/12/2019**	**50**	**TRUE**
GWC-4A	6/24/2020	ND<20	FALSE
GWC-4A	12/18/2020	ND<20	FALSE
GWC-4A	6/18/2021	ND<20	FALSE
GWC-4A	12/16/2021	ND<20	FALSE

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