ATLANTIC COAST CONSULTING, INC.

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November 14, 2019

Mr. Sam B. Buckles
Environmental Scientist Manager
Forsyth County Recycling & Solid Waste Department
1950 Sharon Road
Cumming, Georgia 30041

RE: First 2019 Semi-Annual Groundwater Monitoring Report
Hightower Road Landfill
Permit Nos. 058-006D(SL), 058-009D(SL), 058-010D(SL)

Dear Mr. Buckles:

Atlantic Coast Consulting, Inc. (ACC) has prepared the First 2019 Semi-Annual Groundwater Monitoring Report. The electronic deliverable has been uploaded to the Georgia Environmental Protection Division Online System (GEOS), as submittal identification 434865. A hard copy of the report has been placed in the Operating Record. Please contact me with any questions you may have regarding this project. We appreciate the opportunity to provide these services to Forsyth County.

Sincerely,

ATLANTIC COAST CONSULTING, INC.

Charles B. Adams, P.G.
Senior Professional Geologist

cc: File

FIRST 2019 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Prepared For:

Forsyth County – Hightower Road Landfill

Permit Nos. 058-006D(L), 058-009(SL), and 058-010D(SL)
Ball Ground, Georgia

Prepared By:

ATLANTIC COAST CONSULTING, INC.

FIRST 2019 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Prepared For:

Forsyth County – Hightower Road Landfill

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

Responsible Official: Mr. Eric Johnson
110 E. Main Street, Suite 210
Cumming, GA 30040
(770) 781-2101

Detection Monitoring Event
Dates of Sampling: June 10-13, 2019 & July 24, 2019

Prepared By:

ATLANTIC COAST CONSULTING, INC.

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Introduction

On behalf of Forsyth County, Georgia, Atlantic Coast Consulting, Inc. (ACC) is providing this semi-annual Groundwater and Surface Water Monitoring Report for the Hightower Road Municipal Solid Waste Landfill (MSWL). The purpose of this report is to provide a summary and evaluation of the results of the recent groundwater and surface water monitoring event, which is required by the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4.14. This report includes a professional geologist certification and compliance statement, a summary of site conditions, a description of sampling and analysis, a potentiometric map based on groundwater level measurements recorded for this event, determination of groundwater flow rate and direction, a summary of analytical results, and a statistical analysis of the analytical data.

Professional Geologist Certification and Compliance Statement

This report has been prepared by a registered professional geologist in general accordance with Georgia Chapter 391-3-4 Solid Waste Regulations. The seal below certifies that a sufficiently trained and experienced qualified groundwater scientist with a baccalaureate degree in natural sciences has prepared and/or reviewed this report. The undersigned are 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.

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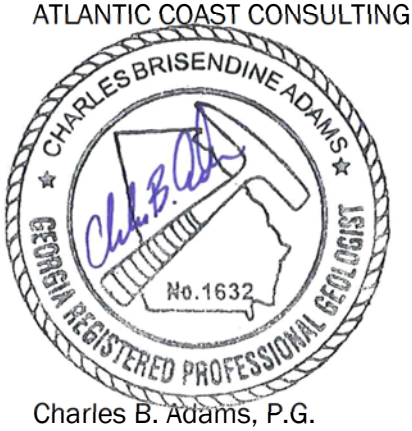


Charles B. Adams, P.G.

This certification statement is provided in accordance with the Solid Waste Management Rules of Georgia Chapter 391-3-4-.07(3)(v). This semi-annual Groundwater and Surface Water Monitoring Report is provided to document the results of the December 2018 sampling event at the Hightower Road MSWL. As documented in this report, there were constituent concentrations above established compliance standards. Therefore, as a qualified groundwater scientist, I certify that these constituents are not in compliance with established standards as documented herein. The facility is in compliance with appropriate Rules of Georgia Solid Waste Management, because an Assessment of Corrective Measures (ACM) Study and Corrective Action Plan (CAP) have been completed and are being implemented, and notifications per rule 391-3-4-.17(6) were published as required.

Summary of Site

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

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

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

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

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

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

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

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

Geologic Setting

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

Monitoring Program

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

During the first semi-annual sampling event, assessment monitoring wells are sampled for Appendix II VOCs and Appendix I metals, and detection wells are sampled for Appendix I parameters as listed in Table A. During the second semi-annual monitoring event, assessment wells are sampled for Appendix I parameters plus any verified Appendix II analytes, select assessment wells are sampled for CAP-required MNA parameters, and detection wells are sampled for Appendix I parameters. Once every three years, assessment monitoring wells are sampled for the full Appendix II analyte list; monitoring locations were sampled for Appendix II analytes during the June 2019 event. The next triennial event is scheduled for June 2022. Some AMW series wells are sampled/analyzed for Appendix I VOCs as warranted by the data (i.e., to provide delineation) and are sampled for the required parameters listed in Table A. Additionally, Appendix I VOCs are collected from SWC-4 and SWC-6 for delineation purposes. Any Appendix II constituents that become verified in an assessment well are added to the analyte list for the well it was detected in for the second semi-annual monitoring event. Historically, the addition of

Appendix II analysis to assessment wells has not yielded additional consistently detected analytes.

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

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

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

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 Maximum Contaminant Level (MCL), or in cases where no MCL exists, an alternate GWPS is utilized. The ACM established alternative GWPS for analytes that have no established MCL per rule 391-3-4-.14(32).

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

Purging and Sampling Procedures

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

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

- Depth-to-groundwater was measured with an electronic water level indicator and recorded prior to sample collection and used to calculate purge volume prior to sample collection.
- A minimum of three well volumes were removed or the well was purged dry. Disposable Teflon® bailers were used to purge all wells, except for PH1-GWA-1A, PH1-GWA-3A, PH1-GWC-2, GWA-1A, GWC-4A, GWC-8R, and GWC-14R, where a Grundfos stainless steel submersible pump attached to disposable Teflon lined tubing was used.
- Parameters including pH, temperature, turbidity, and specific electrical conductivity 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 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 containers, and delivered to the laboratory for analysis under chain-of-custody documentation.
- A trip blank was collected during the event and analyzed for Appendix II 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 electrical conductivity, 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 containers, 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 is summarized in Tables 3 and 4.

Laboratory Methods

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

Regulations (CFR) Part 258, Subpart E, 56 Fed. Reg. 51028-51029 (October 9, 1991), and *Rules for Solid Waste Management* [Chapter 391-3-4-.14 (22)], as amended. The laboratory analytical results, quality control data, and chain-of-custody records for this semi-annual groundwater monitoring event are included in Attachment A of this report. Results of these analyses are discussed in the following sections.

Laboratory Certification

Eurofins TestAmerica Savannah 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 authority, certification identifications, and expiration dates are provided in the laboratory analytical reports.

Discussion of Sampling Results

Groundwater

Samples from the first 2019 semi-annual monitoring event were collected on June 10-13, 2019; July 24, 2019 (samples resampled where hold times were exceeded due to laboratory equipment failure); and September 25, 2019 (a verification sample for VOCs from AMW-1 was collected). For the samples collected July 24, 2019, two cyanide samples were digested by the analyst for MS/MSDs (analyst error); therefore, the original samples were analyzed out-of-hold. The affected samples are for PH1-GWA-2 and PH1-GWC-2. There have not been historic detections of cyanide so the non-detect results are considered representative. These well results for cyanide will be evaluated in the next Appendix II event. The samples were analyzed by Eurofins TestAmerica of Savannah, Georgia. Samples were collected and analyzed from network detection and assessment monitoring wells for Appendix I/II parameters during this monitoring event as detailed in Table A. This event is the triennial groundwater sampling event for Appendix II constituents at assessment monitoring wells. AMW-series wells (AMW-4, AMW-5, AMW-9, AMW-12, AMW-12R, AMW-13, and AMW-14) were sampled and analyzed for Appendix II VOCs and AMW-13 was sampled/analyzed for Appendix I metals. The remaining AMW series wells are utilized solely for water-level measurements. However, AMW-1 was sampled as a surrogate for GWC-15 (obstruction in well casing) and AMW-2 was sampled as a surrogate for GWC-16A (not enough water for full Appendix II analysis). Network monitoring well GWC-4 was dry and was not sampled; therefore, groundwater monitoring well GWC-4A was sampled as a surrogate well.

An evaluation of the June 2019 semi-annual groundwater sampling results indicate that one or more VOCs were detected in 12 network groundwater well samples and 4 AMW series well samples as summarized on Table 3. The concentrations of 4 VOCs [cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride] in one or more assessment well samples were above the respective GWPS. A summary of organic detections is presented below:

- All verified, detected VOCs were in samples from assessment monitoring wells. Previous detections of cis-1,2-DCE in the samples from detection monitoring wells PH1-GWB-2 and GWC-8 did not occur in the current event.

- In the sample from GWC-14A the concentration of chloroethane at 4.4 micrograms per liter (µg/L) was below the GWPS (4.6 µg/L). The concentrations in this well are trending down from the initial concentration of 100 µg/L in November 2001.
- The concentrations of PCE in samples from PH1-GWC-3, PH1-GWC-3A, AMW-1, AMW-4, and AMW-12 were above the GWPS. The detection in the sample from AMW-12 is an unverified concentration and will be further analyzed during the next sampling event. A verification sample for AMW-1 confirmed VOCs (results in Table 3).
- The concentrations of TCE in samples from PH1-GWC-3, PH1-GWC-3A, and AMW-1 were above the GWPS.
- The concentration of vinyl chloride in the sample from GWC-14A was above the GWPS.
- An evaluation of VOCs above GWPS will be provided in the upcoming Corrective Measures Status Evaluation Report (provided with Second 2019 event report).

There were unverified, detected concentrations of the semi-volatile organic compounds (SVOCs) aldrin, bis(2-ethylhexyl) phthalate (BEHP), and BHC-beta in the samples from assessment monitoring wells GWC-14A, GWC-8A, and PH1-GWA-1, respectively. The unverified detection of BEHP in the sample from GWC-8A was present at a concentration above the GWPS. There is currently no established GWPS for aldrin or BHC-beta; a GWPS will be established if these compounds are verified. These analytes will be sampled next event for verification. The detections of VOCs and semi-VOCs in groundwater during this event are addressed by CAP corrective actions. There were low-level, unverified detections of the Appendix II analyte, sulfide in 9 wells: PH1-GWA-2, PH1-GWC-2, PH1-GWC-3, GWC-8A, GWC-17, GWC-18, GWC-24, AMW-1, and AMW-2. These unverified detections will be reevaluated during the next triennial sampling event. No GWPS currently exists for this parameter; a GWPS will be established if detections are verified.

A summary of detected metals is presented in Table 4. Appendix I metals barium, chromium, cobalt, nickel, vanadium, and zinc were detected in one or more groundwater well samples. The previously unverified detected concentrations of arsenic (PH1-GWA-2), lead (PH1-GWC-4 and GWC-13), and vanadium (PH1-GWC-4) from the previous event were not present in the June 2019 event, and remain unverified. All detected groundwater metal concentrations were less than their respective GWPS. Low levels of barium were detected in the majority of groundwater samples, and chromium, cobalt, nickel, vanadium and zinc were detected less frequently. These metals are considered naturally occurring in site soils.

Performance Monitoring

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

Hydraulic Gradient and Groundwater Flow Velocity

The June 2019 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 191 feet per year, generally to the northeast and northwest (in a sub-radial pattern).

Surface Water

Eleven surface water sampling points (SWA-1, SWA-2, and SWC-1 through SWC-9) are monitored semi-annually at the landfill. Location SWC-9 was dry during this event and was not sampled. Surface water samples are analyzed for COD, total cyanide, TOC, chloride, and metals (as summarized on Table 6). Low-level concentrations of TOC, chloride, and/or barium were detected in one or more samples (Table 6). In addition, SWC-4 and SWC-6 are monitored for Appendix I VOCs. There were no detections of VOCs in the SWC-4 or SWC-6 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 voluntarily been added to SWC-6 (see Table A). Refer to correspondence dated June 14, 2017, titled "*Response to April 25, 2017 EPD Letter*" for the demonstration that SWC-6 is appropriate to monitor groundwater to surface water discharge from PH1-GWC-3/3A. Due to concentrations above the GWPS at groundwater wells AMW-1, AMW-4, and AMW-12, VOC samples were collected from on-site surface water monitoring point SWC-1 and two off-site surface water monitoring points SWC-4A and SWC-4B. These locations are depicted on Figure 2. There were no VOCs detected in these samples indicating no off-site migration.

Statistical Analysis

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

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

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

For the Phase I area, three of five upgradient wells PH1-GWA-1, PH1-GWA-1A, 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 a number of wells appeared to change following capping activities completed in late 1999 (pathways of gas migration possibly altered). Based on review of the database it was thought to be more conservative to run the statistical analysis with data after capping was completed. Data from the most recent 12 events are evaluated in statistical analysis.

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

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

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

Twenty-one wells had one or more SSIs during this event, and four wells had SSIs identified for analyte concentrations that were above the GWPS (as shown on Table 7). Groundwater detections are addressed by the CAP remedies. Thirteen wells with VOC SSIs are currently in assessment monitoring, and seven wells with only metal SSIs are in the detection monitoring program (Table 7). The detection wells with metal 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).

Summary and Recommendations

The results of the data evaluated from the June 2019 sampling event are summarized below:

- Groundwater generally flows, in a sub-radial pattern, towards the northeast and northwest, at a calculated rate of approximately 191 feet per year.
- VOCs at concentrations above respective GWPS are limited to assessment monitoring wells. Detections of groundwater VOCs are addressed by the CAP corrective remedies. 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).
- Low-level concentrations of metals are detected in upgradient and downgradient groundwater and surface water sampling points. No verified groundwater metal concentration was above a GWPS, and detected metals are likely naturally occurring.
- There were SSIs for VOC concentrations in samples from assessment monitoring wells. The only SSIs for wells currently in detection monitoring were for low-level concentrations of barium and/or zinc below respective GWPS; these detections are attributed to their typical presence in regional soils.
- There were no detections of VOCs in samples from surface water locations SWC-4 or SWC-6. Location SWC-6 is monitored for VOCs to delineate concentrations of VOCs in samples from groundwater wells PH1-GWC-3 and PH1-GWC-3A. VOC samples were collected from on-site surface water monitoring point SWC-1 and two off-site surface water monitoring points SWC-4A and SWC-4B (Figure 2). There were no VOCs detected in these samples indicating no off-site migration.
- Groundwater conditions continue to improve where the total number of sample concentrations above a GWPS has decreased from 29 during the First 2007 to 11 during the First 2019 event.

Forsyth County will continue implementing the EPD-approved monitoring and corrective action program at the Hightower Road MSWL. The next semi-annual monitoring event is scheduled for December 2019.

TABLES

ATLANTIC COAST CONSULTING, INC.

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

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

Notes:

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

Table A (Continued)
Required Compliance Points and Parameters
Forsyth County - Hightower Road Landfill

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

Notes:

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

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
PH1-GWA-1	Bailer	5.39	142	20.4	31	0.0
PH1-GWA-1	Bailer	6.45	103	24.3	41	--
PH1-GWA-1A	Sub. Pump	5.98	64	20.9	14	NR
PH1-GWA-2	Bailer	5.17	74	26.4	48	0.3
PH1-GWA-2	Bailer	6.33	84	25.8	53	--
PH1-GWA-3A	Sub. Pump	5.19	37	20.3	0.0	NR
PH1-GWA-4	Bailer	6.05	27	24.7	36	NR
PH1-GWB-1	Bailer	4.47	48	23.6	42	NR
PH1-GWB-2	Bailer	5.04	29	23.5	14	NR
PH1-GWC-1	Bailer	5.89	110	20.6	4.4	NR
PH1-GWC-2	Sub. Pump	6.41	135	24.1	43	0.0
PH1-GWC-2	Sub. Pump	6.48	136	24.3	29	--
PH1-GWC-3	Bailer	6.05	116	27.6	3.0	0.0
PH1-GWC-3	Bailer	6.17	237	23.1	715	--
PH1-GWC-3A	Bailer	5.79	244	25.7	30	0.0
PH1-GWC-3A	Bailer	6.16	240	22.8	735	--
PH1-GWC-4	Bailer	5.01	20	21.4	20	NR
GWA-1	Bailer	5.86	69	19.9	47	NR
GWA-1A	Sub. Pump	7.48	177	20.5	0.0	NR
GWA-2	Bailer	4.48	28	21.8	14	NR
GWA-3	Bailer	4.58	21	22.9	15	NR
GWC-1	Bailer	4.94	52	21.0	1.3	NR
GWC-2	Bailer	5.36	21	19.2	21	NR
GWC-3	Bailer	5.35	22	23.2	34	NR
GWC-3A	Bailer	4.99	27	22.4	5.1	NR
GWC-4	Purged Dry - Refer to Surrogate GWC-4A					NR
GWC-4A	Sub. Pump	5.61	236	21.2	147	NR
GWC-5	Bailer	4.73	14	20.4	37	NR
GWC-6	Bailer	5.63	38	23.1	3.0	NR
GWC-7	Bailer	5.12	42	24.1	10	NR
GWC-8	Bailer	5.16	42	17.5	9.5	NR
GWC-8A	Bailer	5.55	171	17.9	32	0.0
GWC-8A	Bailer	6.53	199	24.8	16	--
GWC-8R	Sub. Pump	5.32	41	17.1	0.0	0.0
GWC-8R	Sub. Pump	6.54	193	23.2	71	--
GWC-9	Bailer	5.26	95	20.7	24	NR
GWC-10	Bailer	5.18	36	26.0	10	NR
GWC-10A	Bailer	4.79	39	24.1	2.5	NR
GWC-11	Bailer	5.10	27	19.4	50	NR
GWC-12	Bailer	5.14	16	21.7	13	NR
GWC-12A	Bailer	6.15	30	23.5	8.7	NR
GWC-13	Bailer	5.48	23	22.9	8.4	NR
GWC-14	Bailer	5.33	85	22.8	7.54	NR
GWC-14A	Bailer	5.96	237	22.8	5.42	0.0
GWC-14A	Bailer	5.96	314	22.5	16.4	--
GWC-14R*	Sub. Pump	5.93	278	18.0	0.0	0.0

Notes: Groundwater samples collected June 10-14, 2019.
* = Metals not collected; purged dry and did not sufficiently recover within 24 hours.
Wells with two results show resample data from July 24, 2019 in the second row.

Acronyms: S.U. = Standard Units
µS/cm = microSiemens/centimeter
°C = Degrees Celsius
NTU = Nephelometric Turbidity Units
%v/v = percent by volume
NR = Not required

Table 1
Summary of Water Quality Parameters
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Well ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Methane in Headspace (%v/v)
GWC-14R	Sub. Pump	6.10	237	18.6	3.5	--
GWC-15	Purged Dry - Refer to Surrogate AMW-1					0.0
GWC-16A	Purged Dry - Refer to Surrogate AMW-2					0.0
GWC-17	Bailer	5.45	76	20.9	9.3	0.0
GWC-18	Bailer	5.23	66	24.0	4.6	0.0
GWC-18	Bailer	6.53	68	29.9	77	--
GWC-19R	Bailer	5.51	75	23.9	3.0	0.0
GWC-19R	Bailer	6.36	78	23.3	12.5	--
GWC-22	Bailer	5.15	22	20.7	1.6	NR
GWC-23	Bailer	5.37	84	19.9	5.5	NR
GWC-23A	Bailer	5.32	27	19.1	1.6	NR
GWC-24	Bailer	4.73	47	22.4	12	0.0
GWC-24	Bailer	5.15	116	21.0	**	--
AMW-1	Sub. Pump	5.77	154	28.8	45	0.0
AMW-1	Sub. Pump	5.47	117	21.3	1.6	--
AMW-1^^	Sub. Pump	5.87	106	17.3	9.1	--
AMW-2	Sub. Pump	6.17	185	19.7	3.0	0.0
AMW-4	Bailer	5.49	71	20.0	**	0.0
AMW-5	Bailer	5.67	60	20.1	**	0.0
AMW-9	Bailer	5.17	19	21.7	10	0.0
AMW-12	Bailer	5.74	26	20.2	**	0.0
AMW-12R	Bailer	5.96	36	27.2	**	0.0
AMW-13	Bailer	5.12	30	23.9	7.2	0.0
AMW-14	Bailer	6.13	100	18.5	127	0.0

Notes: Groundwater samples collected June 10-14, 2019.
** = Metals not required.
Wells with two results show resample data from July 24, 2019 in the second row.
^^ Verification resample of AMW-1 sampled September 25, 2019.

Acronyms: S.U. = Standard Units
µS/cm = microSiemens/centimeter
°C = Degrees Celsius
NTU = Nephelometric Turbidity Units
%v/v = percent by volume
NR = Not required

Table 2
Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
June 2019 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	32.18	1144.19
PH1-GWA-1A	108.00	1176.35	33.68	1142.67
PH1-GWA-2	53.60	1183.40	31.68	1151.72
PH1-GWA-3A	205.00	1187.16	33.60	1153.56
PH1-GWA-4	57.00	1191.14	31.81	1159.33
PH1-GWB-1	53.80	1179.10	38.23	1140.87
PH1-GWB-2	42.22	1155.04	20.38	1134.66
PH1-GWC-1	23.79	1074.66	9.30	1065.36
PH1-GWC-2	127.61	1103.93	21.24	1082.69
PH1-GWC-3	23.42	1096.96	11.70	1085.26
PH1-GWC-3A	55.42	1096.28	10.63	1085.65
PH1-GWC-4	33.71	1124.26	24.71	1099.55
GWC-1	38.80	1102.25	26.71	1075.54
AMW-8	50.40	1186.23	34.74	1151.49
AMW-9	41.69	1162.64	26.21	1136.43
AMW-10	56.81	1180.73	38.18	1142.55
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	50.42	1137.28
GWA-1A	141.00	1187.49	51.04	1136.45
GWA-2	52.18	1137.30	35.67	1101.63
GWA-3	48.86	1154.53	34.81	1119.72
GWC-2	55.61	1103.64	54.13	1049.51
GWC-3	39.71	1092.39	30.87	1061.52
GWC-3A	68.95	1094.67	28.22	1066.45
GWC-4	49.81	1132.82	47.99	1084.83
GWC-4A	89.23	1132.39	37.60	1094.79
GWC-5	49.91	1084.55	47.38	1037.17
GWC-6	34.52	1064.01	25.00	1039.01
GWC-7	54.21	1093.44	38.18	1055.26
GWC-8	27.53	1095.63	19.74	1075.89
GWC-8A	46.71	1095.44	16.78	1078.66
GWC-8R	94.67	1098.40	19.35	1079.05
GWC-9	60.50	1093.58	41.54	1052.04
GWC-10	37.51	1068.56	17.93	1050.63

Notes: Depths to water measured on June 10, 2019.

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

Table 2 (Continued)
Summary of Groundwater Elevation Data
Forsyth County - Hightower Rd MSWLF
June 2019 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	18.18	1048.27
GWC-11	46.80	1054.08	30.90	1023.18
GWC-12	40.06	1038.06	26.26	1011.80
GWC-12A	49.44	1038.09	27.66	1010.43
GWC-13	44.95	1090.82	27.14	1063.68
GWC-14	28.37	1089.49	19.97	1069.52
GWC-14A	64.75	1089.32	19.48	1069.84
GWC-14R	93.61	1078.60	11.95	1066.65
GWC-15	62.84	1125.68	52.64	1073.04
GWC-16A	51.05	1136.49	49.85	1086.64
GWC-17	21.59	1107.78	14.32	1093.46
GWC-18	52.70	1094.87	38.08	1056.79
GWC-19R	39.87	1105.79	25.67	1080.12
GWC-22	35.05	1079.01	20.68	1058.33
GWC-23	32.22	1079.06	15.50	1063.56
GWC-23A	61.67	1079.10	25.51	1053.59
GWC-24	44.09	1102.32	34.13	1068.19
AMW-1	180.70	1130.04	56.04	1074.00
AMW-2	150.00	1101.96	38.69	1063.27
AMW-3	28.50	1041.09	9.52	1031.57
AMW-4	18.80	1040.09	4.09	1036.00
AMW-5	23.06	1049.32	8.07	1041.25
AMW-11R	58.10	1053.63	7.44	1046.19
AMW-12	19.56	1056.85	6.93	1049.92
AMW-12R	46.43	1056.34	9.25	1047.09
AMW-13	36.18	1093.09	29.07	1064.02
AMW-14	21.70	1052.73	9.76	1042.97

Notes: Depths to water measured on June 10, 2019.

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

Table 3
Summary of Appendix I/II Organic Compound Detections
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Monitoring Well ID	1,1-DCA (µg/L)	1,1-DCE (µg/L)	Aldrin (µg/L)	Bis(2-ethylhexyl) phthalate (µg/L)	Benzene (µg/L)	Chloro-ethane (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)	BHC-beta (µg/L)
GWPS	*810**	*7*	*NE****	*6*	*5*	*4.6**	*70*	*5*	*5*	*2*	*NE****
PHASE I WELLS											
PH1-GWA-1	--	--	--	--	--	--	5.2	--	--	--	0.032
PH1-GWA-1A	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWA-2	--	--	--	--	--	--	26	--	2.1	--	--
PH1-GWA-3A	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWA-4	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWB-1	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWB-2	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWC-1	--	--	NA	NA	--	--	--	--	--	--	NA
PH1-GWC-2	3.0	--	--	--	--	--	5.1	4.2	2.0	--	--
PH1-GWC-3	3.3	--	--	--	--	--	19	**11**	**7.4**	--	--
PH1-GWC-3A	2.5	--	--	--	--	--	11	**8.8**	**5.7**	--	--
PH1-GWC-4	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-1	--	--	NA	NA	--	--	--	--	--	--	NA
AMW-9	--	--	NA	NA	--	--	--	--	--	--	NA
PHASE II - IV WELLS											
GWA-1	--	--	NA	NA	--	--	--	--	--	--	NA
GWA-1A	--	--	NA	NA	--	--	--	--	--	--	NA
GWA-2	--	--	NA	NA	--	--	--	--	--	--	NA
GWA-3	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-2	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-3	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-3A	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-4	Purged Dry; Refer to Surrogate GWC-4A										
GWC-4A	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-5	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-6	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-7	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-8	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-8A	2.6	--	--	**49**	--	--	22	--	--	--	--
GWC-8R	12	--	NA	--	--	--	21	--	--	--	NA
GWC-9	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-10	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-10A	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-11	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-12	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-12A	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-13	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-14	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-14A	9.2	--	0.058	--	2.1	4.4	46	--	--	**4.3**	--
GWC-14R	18	--	NA	--	--	--	21	--	4.7	--	NA
GWC-15	Purged Dry; Refer to Surrogate AMW-1										
GWC-16A	Purged Dry; Refer to Surrogate AMW-2										
GWC-17	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-18	--	--	--	--	--	--	14	3.9	--	--	--
GWC-19R	--	--	--	--	--	--	7.7	--	--	--	--
GWC-22	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-23	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-23A	--	--	NA	NA	--	--	--	--	--	--	NA
GWC-24	--	--	--	--	--	--	4.4	--	--	--	--
AMW-1	38	--	--	--	3.1	--	**97**	**50**	**70**	--	--
AMW-1^^	37	2.2	NA	NA	3.3	--	**77**	**58**	**94**	--	NA
AMW-2	--	--	--	--	--	--	--	--	--	--	--
AMW-4	2.8	--	NA	NA	--	--	19	**6.2**	3.9	--	NA
AMW-5	--	--	NA	NA	--	--	--	--	--	--	NA
AMW-12	--	--	NA	NA	--	--	--	**7.3**	--	--	NA
AMW-12R	--	--	NA	NA	--	--	--	3.0	--	--	NA
AMW-13	--	--	NA	NA	--	--	--	--	--	--	NA
AMW-14	--	--	NA	NA	--	--	--	--	--	--	NA

Notes: Groundwater samples collected on June 10-13, 2019 and July 24, 2019.
-- = Below laboratory reporting limit.
Shaded and bold values indicate concentrations above GWPS.
* No MCL exists and the GWPS is the EPA Region IX PRG.
***GWPS will be established following a verified detection.
Underlined concentrations are considered unverified.
^^ Verification resample of AMW-1 sampled September 25, 2019.

Acronyms: µg/L = micrograms per liter
NA = Not analyzed; not required.
NE = Not Established
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 Metal & Sulfide Detections
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Monitoring Well ID	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Nickel (mg/L)	Vanadium (mg/L)	Zinc (mg/L)	Sulfide (mg/L)
GWPS	*2*	*0.1*	*0.73**	*0.1*	*0.049**	*5***	*NE****
PHASE I WELLS							
PH1-GWA-1	0.024	--	0.091	--	--	0.034	--
PH1-GWA-1A	0.024	0.011	--	--	--	--	NA
PH1-GWA-2	0.084	--	--	--	--	--	1.7
PH1-GWA-3A	--	--	--	--	--	--	NA
PH1-GWA-4	--	--	--	--	--	--	NA
PH1-GWB-1	0.082	--	--	--	--	0.022	NA
PH1-GWB-2	--	--	--	--	--	0.033	NA
PH1-GWC-1	0.050	--	--	--	--	--	NA
PH1-GWC-2	0.039	0.069	--	0.051	0.042	0.026	1.8
PH1-GWC-3	0.030	--	--	--	--	--	1.2
PH1-GWC-3A	0.030	--	--	--	--	--	--
PH1-GWC-4	0.032	--	--	--	--	0.020	NA
GWC-1	0.093	--	--	--	--	--	NA
AMW-9	--	--	--	--	--	0.022	NA
PHASE II - IV WELLS							
GWA-1	0.028	--	--	--	--	0.042	NA
GWA-1A	0.041	--	--	--	--	--	NA
GWA-2	0.023	--	--	--	--	0.030	NA
GWA-3	--	--	--	--	--	--	NA
GWC-2	--	--	--	--	--	0.028	NA
GWC-3	--	--	--	--	--	--	NA
GWC-3A	0.046	--	--	--	--	0.024	NA
GWC-4	Purged Dry; Refer to Surrogate GWC-4A						
GWC-4A	0.074	0.026	--	0.022	--	0.023	NA
GWC-5	--	--	--	--	--	--	NA
GWC-6	--	--	--	--	--	--	NA
GWC-7	0.048	--	--	--	--	0.023	NA
GWC-8	0.030	--	--	--	--	--	NA
GWC-8A	0.033	--	--	--	--	--	1.2
GWC-9	0.080	--	--	--	--	0.060	NA
GWC-10	0.022	--	--	--	--	0.024	NA
GWC-10A	0.033	--	--	--	--	--	NA
GWC-11	0.040	--	--	--	--	0.034	NA
GWC-12	0.020	--	--	--	--	--	NA
GWC-12A	--	--	--	--	--	--	NA
GWC-13	--	--	--	--	--	--	NA
GWC-14	0.035	--	0.057	--	--	--	NA
GWC-14A	0.17	--	0.33	0.021	--	--	--
GWC-15	Purged Dry; Refer to Surrogate AMW-1						
GWC-16A	Purged Dry; Refer to Surrogate AMW-2						
GWC-17	0.043	--	--	--	--	0.024	1.8
GWC-18	0.23	--	--	0.024	--	--	1.2
GWC-19R	0.097	--	--	--	--	--	--
GWC-22	0.021	--	--	--	--	--	NA
GWC-23	--	--	--	--	--	--	NA
GWC-23A	--	--	--	--	--	--	NA
GWC-24	0.020	--	--	--	--	--	1.4
AMW-1	0.060	--	--	--	--	--	1.3
AMW-2	0.026	--	--	--	--	--	1.2
AMW-13	0.020	--	--	--	--	0.030	NA

Notes: Groundwater samples collected on June 10-13, 2019 and July 24, 2019.
-- = Below laboratory reporting limit.
* No MCL exists EPA Region IX PRG referenced as GWPS.
** Secondary EPA MCL.
***GWPS will be established follwing a verified detection.
Shaded and bold values indicate concentrations are above the GWPS.
Underlined concentrations are unverified detections.
Georgia MCL is used for nickel per 391-3-5-.18(1)(a). Treatment Technique is used for copper. Action Level used for lead.

Acronyms: mg/L = milligrams per liter NA = Not analyzed; not required.
NE = Not established
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.

PROJECT NUMBER:	G020-113			PAGE:	1	OF	1
PROJECT NAME:	Forsyth County	BY:	RW	DATE:	June 2019		
SUBJECT:	Hightower Road MSWLF	CHECKED:	CA	DATE:	June 2019		

Table 5
Calculated Groundwater Flow Rate
June 2019 Sampling Event

Equation

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

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

Assumptions			Reference
(k) = the site average hydraulic conductivity *(average k for GWA-2, GWC-3, GWC-4, & GWC-10)*	=	1.0 ft/day	(Ref. 1)
i_1 = dh/dl from PH1-GWA-2 to GWC-1	=	0.085 ft/ft	(Figure 1)
i_2 = dh/dl from GWA-3 to GWC-2	=	0.137 ft/ft	
i_3 = dh/dl from GWA-2 to GWC-23	=	0.095 ft/ft	
i_4 = dh/dl from GWC-8 to AMW-11R	=	0.101 ft/ft	
(i) = Arithmetic Average (i_1, i_2, i_3, i_4)	=	0.104 ft/ft	
(ne)	=	20%	(Ref. 1)

Calculation

$$V = \frac{(1.0 \text{ ft/day})\,(0.104 \text{ ft/ft})}{20\%}$$

V = 0.52 ft/day
191 ft/year

Notes: ft = feet

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

Table 6
Summary of Surface Water Detections & Field Parameters
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

Location	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Barium (mg/L)	Chromium (mg/L)	Lead (mg/L)
SWA-1	1.0	--	2.0	0.031	--	--
SWA-2	1.1	--	1.8	0.018	--	--
SWC-1	--	--	6.3	0.015	--	--
SWC-2	1.1	--	1.8	0.016	--	--
SWC-3	--	--	2.0	0.019	--	--
SWC-4	--	--	2.1	0.016	--	--
SWC-5	3.4	10	18	0.061	--	--
SWC-6	1.7	--	15	0.025	--	--
SWC-7	1.1	--	5.8	0.017	--	--
SWC-8	10	32	1.6	0.028	--	--

ID	Sample Method	pH (S.U.)	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
SWA-1	Grab	4.34	130	18.8	19	7.7
SWA-2	Grab	5.54	43	18.3	12	4.4
SWC-1	Grab	5.91	68	19.4	3.7	5.4
SWC-2	Grab	5.60	33	18.0	10	5.0
SWC-3	Grab	5.66	40	18.9	8.0	7.2
SWC-4	Grab	5.77	44	18.1	11	5.2
SWC-5	Grab	5.62	177	20.3	6.6	7.8
SWC-6	Grab	5.83	116	21.5	3.9	5.1
SWC-7	Grab	5.96	67	20.2	2.4	4.1
SWC-8	Grab	5.88	45	21.7	3.4	6.4
SWC-9	Dry					
SWC-1^	Grab	6.08	85	16.7	2.1	6.4
SWC-4A^	Grab	5.84	26	16.8	0.0	3.8
SWC-4B^	Grab	5.78	36	16.0	0.3	5.4

Notes: Surface water samples were collected on June 12, 2019.
-- = Below laboratory reporting limit.
^ = Comparative VOC samples were collected on September 25, 2019. No detections reported.

Acronyms: °C = Degrees Celsius
mg/L = milligrams per liter
µS/cm = microSiemens/centimeter
NTU = Nephelometric Turbidity Units
S.U. = Standard Units

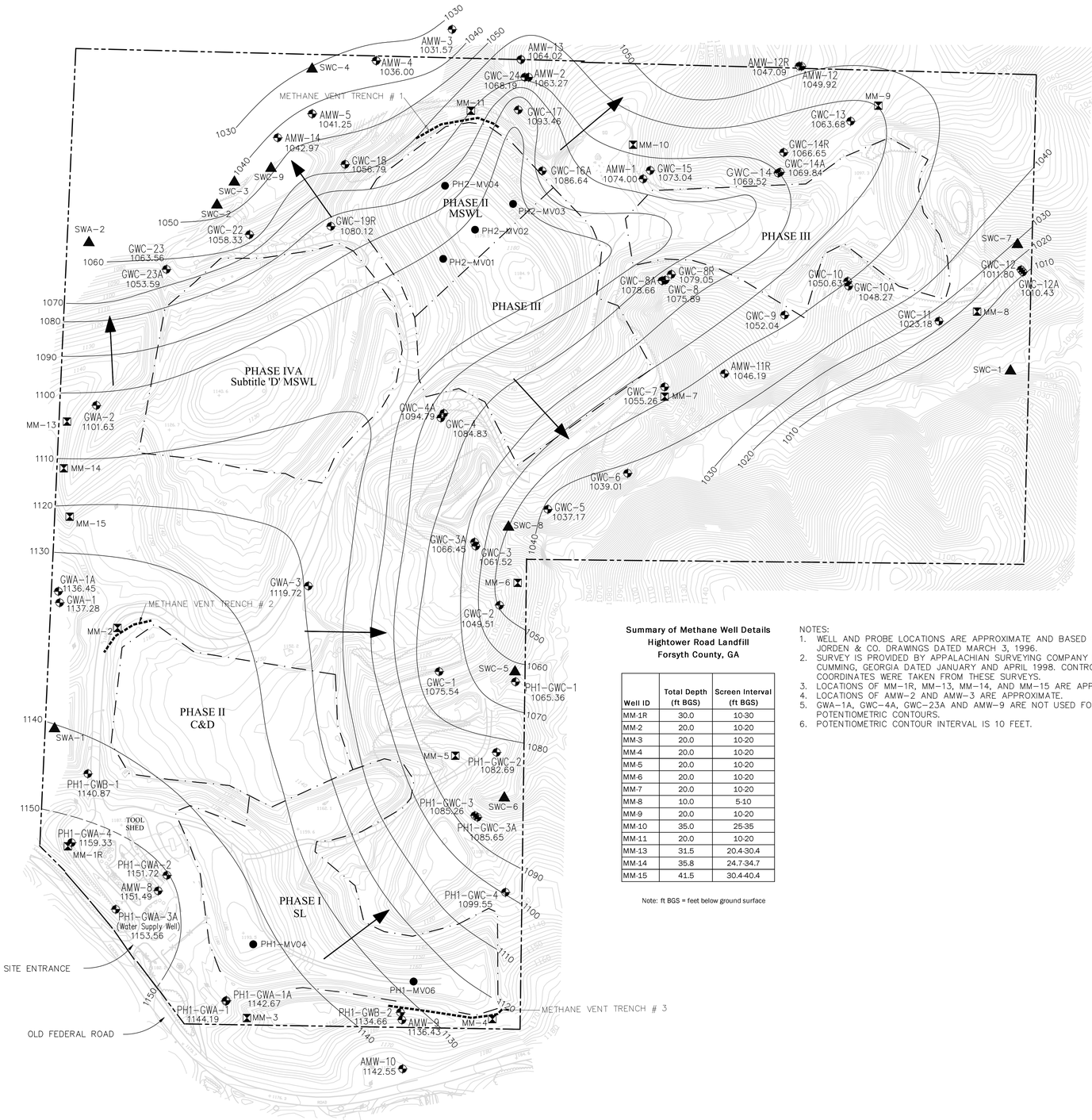
Table 7
Summary of Statistically Significant Increases
Forsyth County - Hightower Road MSWLF
June 2019 Sampling Event

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

Notes: **X** = Statistically Significant Increase indicated; AMW series wells not statistically evaluated.
Shaded cells indicate a concentration above a Groundwater Protection Standard (GWPS).
***** Phase I wells PH1-GWA-3A and PH1-GWA-4 are historically unimpacted and used for upgradient comparison;
Phase II-IV wells GWA-1 and GWA-2 are used for upgradient comparison.

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

FIGURES



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

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

Note: ft BGS = feet below ground surface

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

Summary of Groundwater Elevation Data
Forsyth County - Hightower Road MSWLF
June 2019 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	32.18	1144.19
PH1-GWA-1A	108.00	1176.35	33.68	1142.67
PH1-GWA-2	53.60	1183.40	31.68	1151.72
PH1-GWA-3A	205.00	1187.16	33.60	1153.56
PH1-GWA-4	57.00	1191.14	31.81	1159.33
PH1-GWB-1	53.80	1179.10	38.23	1140.87
PH1-GWB-2	42.22	1155.04	20.38	1134.66
PH1-GWC-1	23.79	1074.66	9.30	1065.36
PH1-GWC-2	127.61	1103.93	21.24	1082.69
PH1-GWC-3	23.42	1096.96	11.70	1085.26
PH1-GWC-3A	55.42	1096.28	10.63	1085.65
PH1-GWC-4	33.71	1124.26	24.71	1099.55
GWC-1	38.80	1102.25	26.71	1075.54
AMW-8	50.40	1186.23	34.74	1151.49
AMW-9	41.69	1162.64	26.21	1136.43
AMW-10	56.81	1180.73	38.18	1142.55
PHASE II - IV WELLS				
GWA-1	62.85	1187.70	50.42	1137.28
GWA-1A	141.00	1187.49	51.04	1136.45
GWA-2	52.18	1137.30	35.67	1101.63
GWA-3	48.86	1154.53	34.81	1119.72
GWC-2	55.61	1103.64	54.13	1049.51
GWC-3	39.71	1092.39	30.87	1061.52
GWC-3A	68.95	1094.67	28.22	1066.45
GWC-4	49.81	1132.82	47.99	1084.83
GWC-4A	89.23	1132.39	37.60	1094.79
GWC-5	49.91	1084.55	47.38	1037.17
GWC-6	34.52	1064.01	25.00	1039.01
GWC-7	54.21	1093.44	38.18	1055.26
GWC-8	27.53	1095.63	19.74	1075.89
GWC-8A	46.71	1095.44	16.78	1078.66
GWC-8R	94.67	1098.40	19.35	1079.05
GWC-9	60.50	1093.58	41.54	1052.04
GWC-10	37.51	1068.56	17.93	1050.63

Notes: Depths to water measured on June 10, 2019.

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

Summary of Groundwater Elevation Data
Forsyth County - Hightower Rd MSWLF
June 2019 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	18.18	1048.27
GWC-11	46.80	1054.08	30.90	1023.18
GWC-12	40.06	1038.06	26.26	1011.80
GWC-12A	49.44	1038.09	27.66	1010.43
GWC-13	44.95	1090.82	27.14	1063.68
GWC-14	28.37	1089.49	19.97	1069.52
GWC-14A	64.75	1089.32	19.48	1069.84
GWC-14R	93.61	1078.60	11.95	1066.65
GWC-15	62.84	1125.68	52.64	1073.04
GWC-16A	51.05	1136.49	49.85	1086.64
GWC-17	21.59	1107.78	14.32	1093.46
GWC-18	52.70	1094.87	38.08	1056.79
GWC-19R	39.87	1105.79	25.67	1080.12
GWC-22	35.05	1079.01	20.68	1058.33
GWC-23	32.22	1079.06	15.50	1063.56
GWC-23A	61.67	1079.10	25.51	1053.59
GWC-24	44.09	1102.32	34.13	1068.19
AMW-1	180.70	1130.04	56.04	1074.00
AMW-2	150.00	1101.96	38.69	1063.27
AMW-3	28.50	1041.09	9.52	1031.57
AMW-4	18.80	1040.09	4.09	1036.00
AMW-5	23.06	1049.32	8.07	1041.25
AMW-11R	58.10	1053.63	7.44	1046.19
AMW-12	19.56	1056.85	6.93	1049.92
AMW-12R	46.43	1056.34	9.25	1047.09
AMW-13	36.18	1093.09	29.07	1064.02
AMW-14	21.70	1052.73	9.76	1042.97

Notes: Depths to water measured on June 10, 2019.

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

LEGEND

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

N

150 0 75 150 300 600

SCALE (IN FEET)

ATLANTIC COAST CONSULTING, INC.
1150 Northmeadow Pkwy., Suite 100
Roswell, GA 30076
o 770.594.5998
f 770.594.5967
www.atlcc.net

CHARLES BRISENDINE ADAMS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1633

PROJECT:

FORSYTH COUNTY HIGHTOWER ROAD LANDFILL

FORSYTH COUNTY, GA

FORSYTH COUNTY

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

REVISIONS

Drawn by: RW | Checked by: CA

PROJECT NUMBER:

G020-113

July 2019

POTENTIOMETRIC SURFACE MAP JUNE 2019

FIGURE 1

P:\Governmental\G020 - Forsyth County\113 - 2019 Environmental Monitoring Services\3 - 1st 2019 GW Event\GW\Forsyth Co 1st 2019 Pot Map.dwg 2019-10-11 MATT MALONE

LEGEND

- APPROXIMATE PHASE BOUNDARY
- 1140 TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- TREELINE
- ROAD
- SWA-4A SURFACE WATER LOCATION (VERIFICATION)
- PH1-MV04 EXTRACTION POINT WITH ACTIVE FLARE
- METHANE VENT TRENCH

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

300 0 150 300 600

SCALE: 1" = 300' (IN FEET)

ATLANTIC COAST CONSULTING, INC.
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PROJECT:

FORSYTH COUNTY HIGHTOWER ROAD LANDFILL

FORSYTH COUNTY, GA

FORSYTH COUNTY

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

Drawn by: MM | Checked by: CA

PROJECT NUMBER:

G020-113

October 2019

ADDITIONAL SURFACE WATER SAMPLE LOCATION MAP

FIGURE 2

P:\Governmental\G020 - Forsyth County\113 - 2019 Environmental Monitoring Services\3 - 1st 2019 GWM Event\DWG\Forsyth Co Site Map-SW 2019.dwg 2019-10-07 CHARLES ADAMS

ATTACHMENTS

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 680-170257-1
Client Project/Site: Forsyth County - Hightower Road Landfill

For:
Atlantic Coast Consulting, Inc.
1150 Northmeadow Parkway
Suite 100
Roswell, Georgia 30076

Attn: Mr. Charles Adams

Authorized for release by:
8/7/2019 4:20:07 PM

Willie Hallmon, Project Manager I
(813)885-7427
willie.hallmon@testamericainc.com

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Job ID: 680-170257-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-170257-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2019 7:25 AM, 6/15/2019 7:30 AM and 7/26/2019 6:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 1.1º C, 2.1º C, 2.8º C, 2.9º C, 3.0º C, 3.1º C, 4.4º C, 4.9º C and 5.3º C.

GC/MS VOA
Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-574919.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575003.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-574996.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575077.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575341.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575377.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575395.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-575556.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 680-575395 recovered outside control limits for the following analytes: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following analyte recovered outside control limits for the LCSD associated with analytical batch 680-575656: 2,2-Dichloropropane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

GC/MS Semi VOA
Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-444898 and analytical batch 400-445656 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine, 3,3'-Dimethylbenzidine, Isosafrole and 7,12-Dimethylbenz(a)anthracene. These analytes were biased high in the LCS and LCSD that were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-445193 and analytical batch 400-446144 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine,

Job ID: 680-170257-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

7,12-Dimethylbenz(a)anthracene and Isosafrole. These analytes were biased high in the LCS and LCSD that were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 400-445325 and analytical batch 400-446427 recovered outside control limits for the following analytes: Famphur, 7,12-Dimethylbenz(a)anthracene, p-Dimethylamino azobenzene, Safrole, Total, Ethyl Parathion, 3-Methylcholanthrene, Isosafrole, 4-Nitrophenol, Pentachlorobenzene, Diallate, Pronamide, Methyl parathion, Disulfoton, Pentachloronitrobenzene, o,o',o''-Triethylphosphorothioate, Phorate and Hexachloropropene.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS and LCSD associated with preparation batch 400-445325 and analytical batch 400-446427: p-Dimethylamino azobenzene 7,12-Dimethylbenz(a)anthracene, and Isosafrole. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 400-450094 and analytical batch 400-450777 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA
Method(s) 8151A: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 460-618837 and analytical batch 460-619804 recovered outside control limits for the following analytes: Dinosab. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8081B/8082A: The laboratory control sample (LCS) for preparation batch 680-577360 and analytical batch 680-578013 recovered outside control limits for the following analyte: Methoxychlor. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

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

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

General Chemistry
Method SM 4500 CN E: The following samples were analyzed outside of analytical holding time due to analyst error. PH1-GWC-2 (680-170257-41) and PH1-GWA-2 (680-170257-44).

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

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

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

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3 Lab Sample ID: 680-170257-1

No Detections.

Client Sample ID: GWC-14 Lab Sample ID: 680-170257-2

No Detections.

Client Sample ID: GWC-3A Lab Sample ID: 680-170257-3

No Detections.

Client Sample ID: GWC-10 Lab Sample ID: 680-170257-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.022		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.024		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-10A Lab Sample ID: 680-170257-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.033		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-10 Lab Sample ID: 680-170257-6

No Detections.

Client Sample ID: GWC-10A Lab Sample ID: 680-170257-7

No Detections.

Client Sample ID: GWC-12 Lab Sample ID: 680-170257-8

No Detections.

Client Sample ID: GWC-12A Lab Sample ID: 680-170257-9

No Detections.

Client Sample ID: GWC-14 Lab Sample ID: 680-170257-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.035		0.020		mg/L	1		6020A	Total Recoverable
Total Cobalt	0.057		0.040		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-3 Lab Sample ID: 680-170257-11

No Detections.

Client Sample ID: AMW-13 Lab Sample ID: 680-170257-12

No Detections.

Client Sample ID: GWC-3A Lab Sample ID: 680-170257-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.046		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: GWC-3A (Continued) — Lab Sample ID: 680-170257-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Zinc	0.024	F2 F1	0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-12 — Lab Sample ID: 680-170257-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.020		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-12A — Lab Sample ID: 680-170257-15

No Detections.

Client Sample ID: AMW-13 — Lab Sample ID: 680-170257-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.020		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.030		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: Trip Blank — Lab Sample ID: 680-170257-17

No Detections.

Client Sample ID: GWA-1A — Lab Sample ID: 680-170257-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.041		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWA-1 — Lab Sample ID: 680-170257-19

No Detections.

Client Sample ID: PH1-GWA-1A — Lab Sample ID: 680-170257-20

No Detections.

Client Sample ID: PH1-GWA-1A — Lab Sample ID: 680-170257-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.024		0.020		mg/L	1		6020A	Total Recoverable
Total Chromium	0.011		0.010		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWA-1 — Lab Sample ID: 680-170257-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.028		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.042		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-4A — Lab Sample ID: 680-170257-23

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-4 Lab Sample ID: 680-170257-24

No Detections.

Client Sample ID: PH1-GWB-1 Lab Sample ID: 680-170257-25

No Detections.

Client Sample ID: GWA-2 Lab Sample ID: 680-170257-26

No Detections.

Client Sample ID: GWA-3 Lab Sample ID: 680-170257-27

No Detections.

Client Sample ID: GWC-4A Lab Sample ID: 680-170257-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.074		0.020		mg/L	1		6020A	Total Recoverable
Total Chromium	0.026		0.010		mg/L	1		6020A	Total Recoverable
Total Nickel	0.022		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.023		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-18 Lab Sample ID: 680-170257-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	3.9		2.0		ug/L	1		8260B	Total/NA
Sulfide	1.2		0.83		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: PH1-GWC-3 Lab Sample ID: 680-170257-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.3		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	19		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	11		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	7.4		2.0		ug/L	1		8260B	Total/NA
Sulfide	1.2		0.82		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: PH1-GWC-3A Lab Sample ID: 680-170257-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.5		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	11		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	8.8		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	5.7		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: PH1-GWC-3 Lab Sample ID: 680-170257-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.030		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWC-3A — Lab Sample ID: 680-170257-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.030		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-19R — Lab Sample ID: 680-170257-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.7		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: GWC-14A — Lab Sample ID: 680-170257-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.1		2.0		ug/L	1		8260B	Total/NA
Chloroethane	4.4		2.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	9.2		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	46		2.0		ug/L	1		8260B	Total/NA
Vinyl chloride	4.3		2.0		ug/L	1		8260B	Total/NA
Aldrin	0.058	p	0.018		ug/L	1		8081B	Total/NA

Client Sample ID: GWC-24 — Lab Sample ID: 680-170257-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.4		2.0		ug/L	1		8260B	Total/NA
Sulfide	1.4		0.85		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: GWC-14A — Lab Sample ID: 680-170257-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.17		0.020		mg/L	1		6020A	Total Recoverable
Total Cobalt	0.33		0.040		mg/L	1		6020A	Total Recoverable
Total Nickel	0.021		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-19R — Lab Sample ID: 680-170257-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.097		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-18 — Lab Sample ID: 680-170257-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.23		0.020		mg/L	1		6020A	Total Recoverable
Total Nickel	0.024		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: PH1-GWA-1 — Lab Sample ID: 680-170257-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.2		2.0		ug/L	1		8260B	Total/NA
BHC-beta	0.032	p	0.018		ug/L	1		8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWC-2 — Lab Sample ID: 680-170257-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.0		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	5.1		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	4.2		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.0		2.0		ug/L	1		8260B	Total/NA
Total Barium	0.039		0.020		mg/L	1		6020A	Total Recoverable
Total Chromium	0.069		0.010		mg/L	1		6020A	Total Recoverable
Total Nickel	0.051		0.020		mg/L	1		6020A	Total Recoverable
Total Vanadium	0.042		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.026		0.020		mg/L	1		6020A	Total Recoverable
Sulfide	1.8		0.88		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: PH1-GWA-1 — Lab Sample ID: 680-170257-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.024		0.020		mg/L	1		6020A	Total Recoverable
Total Cobalt	0.091		0.040		mg/L	1		6020A	Total Recoverable
Total Zinc	0.034		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: AMW-1 (GWC-15) — Lab Sample ID: 680-170257-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.1		2.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	38		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	97		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	50		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	70		2.0		ug/L	1		8260B	Total/NA
Total Barium	0.060		0.020		mg/L	1		6020A	Total Recoverable
Sulfide	1.3		0.78		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: PH1-GWA-2 — Lab Sample ID: 680-170257-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.1		2.0		ug/L	1		8260B	Total/NA
Sulfide	1.7		0.88		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: GWA-3 — Lab Sample ID: 680-170257-45

No Detections.

Client Sample ID: GWA-2 — Lab Sample ID: 680-170257-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.023		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.030		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Savannah

Detection Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWB-1 — Lab Sample ID: 680-170257-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.082		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.022		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: PH1-GWA-2 — Lab Sample ID: 680-170257-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.084		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: PH1-GWA-4 — Lab Sample ID: 680-170257-49

No Detections.

Client Sample ID: GWC-24 — Lab Sample ID: 680-170257-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.020		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-8 — Lab Sample ID: 680-170409-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.030		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-2 — Lab Sample ID: 680-170409-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Zinc	0.028		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-9 — Lab Sample ID: 680-170409-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.080		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.060		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-11 — Lab Sample ID: 680-170409-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.040		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.034		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-17 — Lab Sample ID: 680-170409-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.043		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.024		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-14 Lab Sample ID: 680-170409-6

No Detections.

Client Sample ID: PHI-GWC-4 Lab Sample ID: 680-170409-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.032		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.020		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: PHI-GWC-1 Lab Sample ID: 680-170409-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.050		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-1 Lab Sample ID: 680-170409-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.093		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: AMW-2 (GWC-16A) Lab Sample ID: 680-170409-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.026		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: Trip Blank Lab Sample ID: 680-170409-11

No Detections.

Client Sample ID: GWC-22 Lab Sample ID: 680-170409-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.021		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: GWC-7 Lab Sample ID: 680-170409-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.048		0.020		mg/L	1		6020A	Total Recoverable
Total Zinc	0.023		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: AMW-9 Lab Sample ID: 680-170409-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Zinc	0.022		0.020		mg/L	1		6020A	Total Recoverable

Client Sample ID: PHI-GWB-2 Lab Sample ID: 680-170409-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Zinc	0.033		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-6 Lab Sample ID: 680-170409-16

No Detections.

Client Sample ID: GWC-5 Lab Sample ID: 680-170409-17

No Detections.

Client Sample ID: GWC-13 Lab Sample ID: 680-170409-18

No Detections.

Client Sample ID: PHI-GWC-4 Lab Sample ID: 680-170409-19

No Detections.

Client Sample ID: GWC-1 Lab Sample ID: 680-170409-20

No Detections.

Client Sample ID: AMW-12 Lab Sample ID: 680-170409-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.3		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: AMW-12R Lab Sample ID: 680-170409-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.0		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: GWC-22 Lab Sample ID: 680-170409-23

No Detections.

Client Sample ID: GWC-23 Lab Sample ID: 680-170409-24

No Detections.

Client Sample ID: GWC-23A Lab Sample ID: 680-170409-25

No Detections.

Client Sample ID: GWC-13 Lab Sample ID: 680-170409-26

No Detections.

Client Sample ID: GWC-7 Lab Sample ID: 680-170409-27

No Detections.

Client Sample ID: GWC-6 Lab Sample ID: 680-170409-28

No Detections.

Client Sample ID: GWC-5 Lab Sample ID: 680-170409-29

No Detections.

Client Sample ID: PHI-GWB-2 Lab Sample ID: 680-170409-30

No Detections.

Client Sample ID: AMW-9 Lab Sample ID: 680-170409-31

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Savannah

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23 Lab Sample ID: 680-170409-32

No Detections.

Client Sample ID: GWC-23A Lab Sample ID: 680-170409-33

No Detections.

Client Sample ID: Field Blank 2 Lab Sample ID: 680-170409-34

No Detections.

Client Sample ID: GWC-14R Lab Sample ID: 680-170409-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	18		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	21		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	4.7		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: GWC-8 Lab Sample ID: 680-170409-36

No Detections.

Client Sample ID: GWC-8A Lab Sample ID: 680-170409-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	22		2.0		ug/L	1		8260B	Total/NA
Sulfide	1.2		0.86		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: GWC-8R Lab Sample ID: 680-170409-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	21		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: GWC-9 Lab Sample ID: 680-170409-39

No Detections.

Client Sample ID: GWC-11 Lab Sample ID: 680-170409-40

No Detections.

Client Sample ID: GWC-17 Lab Sample ID: 680-170409-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	1.8		1.2		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: GWC-2 Lab Sample ID: 680-170409-42

No Detections.

Client Sample ID: GWC-8A Lab Sample ID: 680-170409-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.033		0.020		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-2 Lab Sample ID: 680-170409-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfide	1.2		0.81		mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: PHI-GWC-1 Lab Sample ID: 680-170409-45

No Detections.

Client Sample ID: AMW-5 Lab Sample ID: 680-170409-46

No Detections.

Client Sample ID: AMW-4 Lab Sample ID: 680-170409-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.8		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	19		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	6.2		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.9		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: Field Blank 1 Lab Sample ID: 680-170409-48

No Detections.

Client Sample ID: PHI-GWA-3A Lab Sample ID: 680-170409-49

No Detections.

Client Sample ID: GWC-8A Lab Sample ID: 680-172164-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	49		25		ug/L	1		8270D	Total/NA

Client Sample ID: GWC-8R Lab Sample ID: 680-172164-2

No Detections.

Client Sample ID: GWC-14R Lab Sample ID: 680-172164-3

No Detections.

Client Sample ID: PH1-GWA-1 Lab Sample ID: 680-172164-4

No Detections.

Client Sample ID: PH1-GWC-3 Lab Sample ID: 680-172164-7

No Detections.

Client Sample ID: PH1-GWC-3A Lab Sample ID: 680-172164-8

No Detections.

Client Sample ID: GWC-14A Lab Sample ID: 680-172164-9

No Detections.

Client Sample ID: GWC-18 Lab Sample ID: 680-172164-10

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R — Lab Sample ID: 680-172164-11

No Detections.

Client Sample ID: GWC-24 — Lab Sample ID: 680-172164-12

No Detections.

Client Sample ID: AMW-1 — Lab Sample ID: 680-172164-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3
Lab Sample ID: 680-170257-1
Date Collected: 06/11/19 12:35
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 18:06	1
Acrylonitrile	ND		50		ug/L			06/24/19 18:06	1
Benzene	ND		2.0		ug/L			06/24/19 18:06	1
Bromochloromethane	ND		10		ug/L			06/24/19 18:06	1
Bromodichloromethane	ND		10		ug/L			06/24/19 18:06	1
Bromoform	ND		10		ug/L			06/24/19 18:06	1
Bromomethane	ND		10		ug/L			06/24/19 18:06	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 18:06	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 18:06	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 18:06	1
Chlorobenzene	ND		10		ug/L			06/24/19 18:06	1
Chloroethane	ND		2.0		ug/L			06/24/19 18:06	1
Chloroform	ND		2.0		ug/L			06/24/19 18:06	1
Chloromethane	ND		10		ug/L			06/24/19 18:06	1
Dibromochloromethane	ND		10		ug/L			06/24/19 18:06	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 18:06	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 18:06	1
Dibromomethane	ND		10		ug/L			06/24/19 18:06	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 18:06	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 18:06	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 18:06	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 18:06	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 18:06	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:06	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:06	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 18:06	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 18:06	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:06	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:06	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 18:06	1
2-Hexanone	ND		50		ug/L			06/24/19 18:06	1
Iodomethane	ND		100		ug/L			06/24/19 18:06	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 18:06	1
Styrene	ND		10		ug/L			06/24/19 18:06	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:06	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:06	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 18:06	1
Toluene	ND		2.0		ug/L			06/24/19 18:06	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 18:06	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 18:06	1
Trichloroethene	ND		2.0		ug/L			06/24/19 18:06	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 18:06	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 18:06	1
Vinyl acetate	ND		100		ug/L			06/24/19 18:06	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 18:06	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/24/19 18:06*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3
Lab Sample ID: 680-170257-1
Date Collected: 06/11/19 12:35
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		73 - 131		06/24/19 18:06	1
Dibromofluoromethane (Surr)	104		80 - 122		06/24/19 18:06	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/24/19 18:06	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-14
Date Collected: 06/11/19 11:35
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 18:52	1
Acrylonitrile	ND		50		ug/L			06/24/19 18:52	1
Benzene	ND		2.0		ug/L			06/24/19 18:52	1
Bromochloromethane	ND		10		ug/L			06/24/19 18:52	1
Bromodichloromethane	ND		10		ug/L			06/24/19 18:52	1
Bromoform	ND		10		ug/L			06/24/19 18:52	1
Bromomethane	ND		10		ug/L			06/24/19 18:52	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 18:52	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 18:52	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 18:52	1
Chlorobenzene	ND		10		ug/L			06/24/19 18:52	1
Chloroethane	ND		2.0		ug/L			06/24/19 18:52	1
Chloroform	ND		2.0		ug/L			06/24/19 18:52	1
Chloromethane	ND		10		ug/L			06/24/19 18:52	1
Dibromochloromethane	ND		10		ug/L			06/24/19 18:52	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 18:52	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 18:52	1
Dibromomethane	ND		10		ug/L			06/24/19 18:52	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 18:52	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 18:52	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 18:52	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 18:52	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 18:52	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:52	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:52	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 18:52	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 18:52	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:52	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:52	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 18:52	1
2-Hexanone	ND		50		ug/L			06/24/19 18:52	1
Iodomethane	ND		100		ug/L			06/24/19 18:52	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 18:52	1
Styrene	ND		10		ug/L			06/24/19 18:52	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:52	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:52	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 18:52	1
Toluene	ND		2.0		ug/L			06/24/19 18:52	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 18:52	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 18:52	1
Trichloroethene	ND		2.0		ug/L			06/24/19 18:52	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 18:52	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 18:52	1
Vinyl acetate	ND		100		ug/L			06/24/19 18:52	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 18:52	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/24/19 18:52*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14
Lab Sample ID: 680-170257-2
Date Collected: 06/11/19 11:35
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		06/24/19 18:52	1
Dibromofluoromethane (Surr)	104		80 - 122		06/24/19 18:52	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/24/19 18:52	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-3A

Date Collected: 06/11/19 12:45
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 18:29	1
Acrylonitrile	ND		50		ug/L			06/24/19 18:29	1
Benzene	ND		2.0		ug/L			06/24/19 18:29	1
Bromochloromethane	ND		10		ug/L			06/24/19 18:29	1
Bromodichloromethane	ND		10		ug/L			06/24/19 18:29	1
Bromoform	ND		10		ug/L			06/24/19 18:29	1
Bromomethane	ND		10		ug/L			06/24/19 18:29	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 18:29	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 18:29	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 18:29	1
Chlorobenzene	ND		10		ug/L			06/24/19 18:29	1
Chloroethane	ND		2.0		ug/L			06/24/19 18:29	1
Chloroform	ND		2.0		ug/L			06/24/19 18:29	1
Chloromethane	ND		10		ug/L			06/24/19 18:29	1
Dibromochloromethane	ND		10		ug/L			06/24/19 18:29	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 18:29	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 18:29	1
Dibromomethane	ND		10		ug/L			06/24/19 18:29	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 18:29	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 18:29	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 18:29	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 18:29	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 18:29	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:29	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:29	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 18:29	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 18:29	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:29	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:29	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 18:29	1
2-Hexanone	ND		50		ug/L			06/24/19 18:29	1
Iodomethane	ND		100		ug/L			06/24/19 18:29	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 18:29	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 18:29	1
Styrene	ND		10		ug/L			06/24/19 18:29	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:29	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:29	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 18:29	1
Toluene	ND		2.0		ug/L			06/24/19 18:29	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 18:29	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 18:29	1
Trichloroethene	ND		2.0		ug/L			06/24/19 18:29	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 18:29	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 18:29	1
Vinyl acetate	ND		100		ug/L			06/24/19 18:29	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 18:29	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/24/19 18:29*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3A
Lab Sample ID: 680-170257-3
Date Collected: 06/11/19 12:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		06/24/19 18:29	1
Dibromofluoromethane (Surr)	105		80 - 122		06/24/19 18:29	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/24/19 18:29	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10
Lab Sample ID: 680-170257-4
Date Collected: 06/11/19 11:05
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Barium	**0.022**		0.020		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:37	1
Total Zinc	**0.024**		0.020		mg/L		06/13/19 15:02	06/17/19 17:37	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10A
Lab Sample ID: 680-170257-5

Date Collected: 06/11/19 11:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Barium	**0.033**		0.020		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:41	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:41	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10
Lab Sample ID: 680-170257-6
Date Collected: 06/10/19 15:55
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 16:53	1
Acrylonitrile	ND		50		ug/L			06/20/19 16:53	1
Benzene	ND		2.0		ug/L			06/20/19 16:53	1
Bromochloromethane	ND		10		ug/L			06/20/19 16:53	1
Bromodichloromethane	ND		10		ug/L			06/20/19 16:53	1
Bromoform	ND		10		ug/L			06/20/19 16:53	1
Bromomethane	ND		10		ug/L			06/20/19 16:53	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 16:53	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 16:53	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 16:53	1
Chlorobenzene	ND		10		ug/L			06/20/19 16:53	1
Chloroethane	ND		2.0		ug/L			06/20/19 16:53	1
Chloroform	ND		2.0		ug/L			06/20/19 16:53	1
Chloromethane	ND		10		ug/L			06/20/19 16:53	1
Dibromochloromethane	ND		10		ug/L			06/20/19 16:53	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 16:53	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 16:53	1
Dibromomethane	ND		10		ug/L			06/20/19 16:53	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 16:53	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 16:53	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 16:53	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 16:53	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 16:53	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 16:53	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 16:53	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 16:53	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 16:53	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:53	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:53	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 16:53	1
2-Hexanone	ND		50		ug/L			06/20/19 16:53	1
Iodomethane	ND		100		ug/L			06/20/19 16:53	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 16:53	1
Styrene	ND		10		ug/L			06/20/19 16:53	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:53	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:53	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 16:53	1
Toluene	ND		2.0		ug/L			06/20/19 16:53	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 16:53	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 16:53	1
Trichloroethene	ND		2.0		ug/L			06/20/19 16:53	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 16:53	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 16:53	1
Vinyl acetate	ND		100		ug/L			06/20/19 16:53	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 16:53	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 16:53*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10
Lab Sample ID: 680-170257-6
Date Collected: 06/10/19 15:55
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		73 - 131		06/20/19 16:53	1
Dibromofluoromethane (Surr)	106		80 - 122		06/20/19 16:53	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/20/19 16:53	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-10A

Date Collected: 06/10/19 16:00
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 17:17	1
Acrylonitrile	ND		50		ug/L			06/20/19 17:17	1
Benzene	ND		2.0		ug/L			06/20/19 17:17	1
Bromochloromethane	ND		10		ug/L			06/20/19 17:17	1
Bromodichloromethane	ND		10		ug/L			06/20/19 17:17	1
Bromoform	ND		10		ug/L			06/20/19 17:17	1
Bromomethane	ND		10		ug/L			06/20/19 17:17	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 17:17	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 17:17	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 17:17	1
Chlorobenzene	ND		10		ug/L			06/20/19 17:17	1
Chloroethane	ND		2.0		ug/L			06/20/19 17:17	1
Chloroform	ND		2.0		ug/L			06/20/19 17:17	1
Chloromethane	ND		10		ug/L			06/20/19 17:17	1
Dibromochloromethane	ND		10		ug/L			06/20/19 17:17	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 17:17	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 17:17	1
Dibromomethane	ND		10		ug/L			06/20/19 17:17	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 17:17	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 17:17	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 17:17	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 17:17	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 17:17	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 17:17	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 17:17	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 17:17	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 17:17	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:17	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:17	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 17:17	1
2-Hexanone	ND		50		ug/L			06/20/19 17:17	1
Iodomethane	ND		100		ug/L			06/20/19 17:17	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 17:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 17:17	1
Styrene	ND		10		ug/L			06/20/19 17:17	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:17	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:17	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 17:17	1
Toluene	ND		2.0		ug/L			06/20/19 17:17	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 17:17	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 17:17	1
Trichloroethene	ND		2.0		ug/L			06/20/19 17:17	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 17:17	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 17:17	1
Vinyl acetate	ND		100		ug/L			06/20/19 17:17	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 17:17	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 17:17*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10A
Lab Sample ID: 680-170257-7
Date Collected: 06/10/19 16:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		06/20/19 17:17	1
Dibromofluoromethane (Surr)	104		80 - 122		06/20/19 17:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/20/19 17:17	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-12
Date Collected: 06/11/19 16:10
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 18:09	1
Acrylonitrile	ND		50		ug/L			06/24/19 18:09	1
Benzene	ND		2.0		ug/L			06/24/19 18:09	1
Bromochloromethane	ND		10		ug/L			06/24/19 18:09	1
Bromodichloromethane	ND		10		ug/L			06/24/19 18:09	1
Bromoform	ND		10		ug/L			06/24/19 18:09	1
Bromomethane	ND		10		ug/L			06/24/19 18:09	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 18:09	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 18:09	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 18:09	1
Chlorobenzene	ND		10		ug/L			06/24/19 18:09	1
Chloroethane	ND	*	2.0		ug/L			06/24/19 18:09	1
Chloroform	ND		2.0		ug/L			06/24/19 18:09	1
Chloromethane	ND		10		ug/L			06/24/19 18:09	1
Dibromochloromethane	ND		10		ug/L			06/24/19 18:09	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 18:09	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 18:09	1
Dibromomethane	ND		10		ug/L			06/24/19 18:09	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 18:09	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 18:09	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 18:09	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 18:09	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 18:09	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:09	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:09	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 18:09	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 18:09	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:09	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:09	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 18:09	1
2-Hexanone	ND		50		ug/L			06/24/19 18:09	1
Iodomethane	ND		100		ug/L			06/24/19 18:09	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 18:09	1
Styrene	ND		10		ug/L			06/24/19 18:09	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:09	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:09	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 18:09	1
Toluene	ND		2.0		ug/L			06/24/19 18:09	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 18:09	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 18:09	1
Trichloroethene	ND		2.0		ug/L			06/24/19 18:09	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 18:09	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 18:09	1
Vinyl acetate	ND		100		ug/L			06/24/19 18:09	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 18:09	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/24/19 18:09*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-12
Lab Sample ID: 680-170257-8
Date Collected: 06/11/19 16:10
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		06/24/19 18:09	1
Dibromofluoromethane (Surr)	94		80 - 122		06/24/19 18:09	1
4-Bromofluorobenzene (Surr)	105		80 - 120		06/24/19 18:09	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-12A

Date Collected: 06/11/19 16:10
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 18:30	1
Acrylonitrile	ND		50		ug/L			06/24/19 18:30	1
Benzene	ND		2.0		ug/L			06/24/19 18:30	1
Bromochloromethane	ND		10		ug/L			06/24/19 18:30	1
Bromodichloromethane	ND		10		ug/L			06/24/19 18:30	1
Bromoform	ND		10		ug/L			06/24/19 18:30	1
Bromomethane	ND		10		ug/L			06/24/19 18:30	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 18:30	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 18:30	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 18:30	1
Chlorobenzene	ND		10		ug/L			06/24/19 18:30	1
Chloroethane	ND	*	2.0		ug/L			06/24/19 18:30	1
Chloroform	ND		2.0		ug/L			06/24/19 18:30	1
Chloromethane	ND		10		ug/L			06/24/19 18:30	1
Dibromochloromethane	ND		10		ug/L			06/24/19 18:30	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 18:30	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 18:30	1
Dibromomethane	ND		10		ug/L			06/24/19 18:30	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 18:30	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 18:30	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 18:30	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 18:30	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 18:30	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:30	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 18:30	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 18:30	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 18:30	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:30	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 18:30	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 18:30	1
2-Hexanone	ND		50		ug/L			06/24/19 18:30	1
Iodomethane	ND		100		ug/L			06/24/19 18:30	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 18:30	1
Styrene	ND		10		ug/L			06/24/19 18:30	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:30	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 18:30	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 18:30	1
Toluene	ND		2.0		ug/L			06/24/19 18:30	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 18:30	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 18:30	1
Trichloroethene	ND		2.0		ug/L			06/24/19 18:30	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 18:30	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 18:30	1
Vinyl acetate	ND		100		ug/L			06/24/19 18:30	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 18:30	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/24/19 18:30*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-12A
Lab Sample ID: 680-170257-9
Date Collected: 06/11/19 16:10
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		06/24/19 18:30	1
Dibromofluoromethane (Surr)	90		80 - 122		06/24/19 18:30	1
4-Bromofluorobenzene (Surr)	103		80 - 120		06/24/19 18:30	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14
Lab Sample ID: 680-170257-10
Date Collected: 06/12/19 08:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Barium	**0.035**		0.020		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Cobalt	**0.057**		0.040		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:42	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:42	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3
Lab Sample ID: 680-170257-11
Date Collected: 06/12/19 09:10
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Arsenic	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Barium	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Beryllium	ND		0.0030		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Cadmium	ND		0.0050		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Chromium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Cobalt	ND		0.040		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Copper	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Lead	ND		0.015		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Nickel	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Selenium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Silver	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Thallium	ND		0.0020		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Vanadium	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:28	1
Total Zinc	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:28	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-13
Lab Sample ID: 680-170257-12
Date Collected: 06/11/19 14:50
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 14:41	1
Acetonitrile	ND		200		ug/L			06/20/19 14:41	1
Acrolein	ND		50		ug/L			06/20/19 14:41	1
Acrylonitrile	ND		50		ug/L			06/20/19 14:41	1
Benzene	ND		2.0		ug/L			06/20/19 14:41	1
Bromochloromethane	ND		10		ug/L			06/20/19 14:41	1
Bromodichloromethane	ND		10		ug/L			06/20/19 14:41	1
Bromoform	ND		10		ug/L			06/20/19 14:41	1
Bromomethane	ND		10		ug/L			06/20/19 14:41	1
2-Butanone	ND		100		ug/L			06/20/19 14:41	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 14:41	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 14:41	1
Chlorobenzene	ND		10		ug/L			06/20/19 14:41	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 14:41	1
Chloroethane	ND		2.0		ug/L			06/20/19 14:41	1
Chloroform	ND		2.0		ug/L			06/20/19 14:41	1
Chloromethane	ND		10		ug/L			06/20/19 14:41	1
Allyl chloride	ND		100		ug/L			06/20/19 14:41	1
Dibromochloromethane	ND		10		ug/L			06/20/19 14:41	1
Dibromomethane	ND		10		ug/L			06/20/19 14:41	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 14:41	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 14:41	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 14:41	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 14:41	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 14:41	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 14:41	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 14:41	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 14:41	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 14:41	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 14:41	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 14:41	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 14:41	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 14:41	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 14:41	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 14:41	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 14:41	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 14:41	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 14:41	1
2-Hexanone	ND		50		ug/L			06/20/19 14:41	1
Iodomethane	ND		100		ug/L			06/20/19 14:41	1
Isobutanol	ND		200		ug/L			06/20/19 14:41	1
Methacrylonitrile	ND		100		ug/L			06/20/19 14:41	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 14:41	1
Methyl methacrylate	ND		10		ug/L			06/20/19 14:41	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 14:41	1
Naphthalene	ND		10		ug/L			06/20/19 14:41	1
Propionitrile	ND		75		ug/L			06/20/19 14:41	1
Styrene	ND		10		ug/L			06/20/19 14:41	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 14:41	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-13
Lab Sample ID: 680-170257-12
Date Collected: 06/11/19 14:50
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 14:41	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 14:41	1
Toluene	ND		2.0		ug/L			06/20/19 14:41	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 14:41	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 14:41	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 14:41	1
Trichloroethene	ND		2.0		ug/L			06/20/19 14:41	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 14:41	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 14:41	1
Vinyl acetate	ND		100		ug/L			06/20/19 14:41	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 14:41	1
Xylenes	ND		5.0		ug/L			06/20/19 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/19 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*06/20/19 14:41*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/20/19 14:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 14:41*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3A
Lab Sample ID: 680-170257-13

Date Collected: 06/12/19 09:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Barium	**0.046**		0.020		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:07	1
Total Zinc	**0.024**	**F2 F1**	0.020		mg/L		06/13/19 15:02	06/17/19 16:07	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-12
Lab Sample ID: 680-170257-14
Date Collected: 06/12/19 09:50
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Barium	**0.020**		0.020		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:26	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:26	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-12A
Lab Sample ID: 680-170257-15
Date Collected: 06/12/19 09:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Barium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Chromium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Nickel	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Vanadium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:02	1
Total Zinc	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:02	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-13
Lab Sample ID: 680-170257-16
Date Collected: 06/12/19 09:50
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Barium	**0.020**		0.020		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:30	1
Total Zinc	**0.030**		0.020		mg/L		06/13/19 15:02	06/17/19 16:30	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Trip Blank
Lab Sample ID: 680-170257-17

Date Collected: 06/11/19 00:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 13:55	1
Acetonitrile	ND		200		ug/L			06/20/19 13:55	1
Acrolein	ND		50		ug/L			06/20/19 13:55	1
Acrylonitrile	ND		50		ug/L			06/20/19 13:55	1
Benzene	ND		2.0		ug/L			06/20/19 13:55	1
Bromochloromethane	ND		10		ug/L			06/20/19 13:55	1
Bromodichloromethane	ND		10		ug/L			06/20/19 13:55	1
Bromoform	ND		10		ug/L			06/20/19 13:55	1
Bromomethane	ND		10		ug/L			06/20/19 13:55	1
2-Butanone	ND		100		ug/L			06/20/19 13:55	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 13:55	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 13:55	1
Chlorobenzene	ND		10		ug/L			06/20/19 13:55	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 13:55	1
Chloroethane	ND		2.0		ug/L			06/20/19 13:55	1
Chloroform	ND		2.0		ug/L			06/20/19 13:55	1
Chloromethane	ND		10		ug/L			06/20/19 13:55	1
Allyl chloride	ND		100		ug/L			06/20/19 13:55	1
Dibromochloromethane	ND		10		ug/L			06/20/19 13:55	1
Dibromomethane	ND		10		ug/L			06/20/19 13:55	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 13:55	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 13:55	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 13:55	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 13:55	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 13:55	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 13:55	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 13:55	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 13:55	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 13:55	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 13:55	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 13:55	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 13:55	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 13:55	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 13:55	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 13:55	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 13:55	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 13:55	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 13:55	1
2-Hexanone	ND		50		ug/L			06/20/19 13:55	1
Iodomethane	ND		100		ug/L			06/20/19 13:55	1
Isobutanol	ND		200		ug/L			06/20/19 13:55	1
Methacrylonitrile	ND		100		ug/L			06/20/19 13:55	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 13:55	1
Methyl methacrylate	ND		10		ug/L			06/20/19 13:55	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 13:55	1
Naphthalene	ND		10		ug/L			06/20/19 13:55	1
Propionitrile	ND		75		ug/L			06/20/19 13:55	1
Styrene	ND		10		ug/L			06/20/19 13:55	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 13:55	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Trip Blank
Lab Sample ID: 680-170257-17
Date Collected: 06/11/19 00:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 13:55	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 13:55	1
Toluene	ND		2.0		ug/L			06/20/19 13:55	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 13:55	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 13:55	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 13:55	1
Trichloroethene	ND		2.0		ug/L			06/20/19 13:55	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 13:55	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 13:55	1
Vinyl acetate	ND		100		ug/L			06/20/19 13:55	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 13:55	1
Xylenes	ND		5.0		ug/L			06/20/19 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*		*06/20/19 13:55*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/20/19 13:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 13:55*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-1A
Lab Sample ID: 680-170257-18

Date Collected: 06/10/19 11:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 17:40	1
Acrylonitrile	ND		50		ug/L			06/20/19 17:40	1
Benzene	ND		2.0		ug/L			06/20/19 17:40	1
Bromochloromethane	ND		10		ug/L			06/20/19 17:40	1
Bromodichloromethane	ND		10		ug/L			06/20/19 17:40	1
Bromoform	ND		10		ug/L			06/20/19 17:40	1
Bromomethane	ND		10		ug/L			06/20/19 17:40	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 17:40	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 17:40	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 17:40	1
Chlorobenzene	ND		10		ug/L			06/20/19 17:40	1
Chloroethane	ND		2.0		ug/L			06/20/19 17:40	1
Chloroform	ND		2.0		ug/L			06/20/19 17:40	1
Chloromethane	ND		10		ug/L			06/20/19 17:40	1
Dibromochloromethane	ND		10		ug/L			06/20/19 17:40	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 17:40	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 17:40	1
Dibromomethane	ND		10		ug/L			06/20/19 17:40	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 17:40	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 17:40	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 17:40	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 17:40	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 17:40	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 17:40	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 17:40	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 17:40	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 17:40	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:40	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:40	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 17:40	1
2-Hexanone	ND		50		ug/L			06/20/19 17:40	1
Iodomethane	ND		100		ug/L			06/20/19 17:40	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 17:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 17:40	1
Styrene	ND		10		ug/L			06/20/19 17:40	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:40	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:40	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 17:40	1
Toluene	ND		2.0		ug/L			06/20/19 17:40	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 17:40	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 17:40	1
Trichloroethene	ND		2.0		ug/L			06/20/19 17:40	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 17:40	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 17:40	1
Vinyl acetate	ND		100		ug/L			06/20/19 17:40	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 17:40	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/20/19 17:40*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWA-1A
Date Collected: 06/10/19 11:30
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-18
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*06/20/19 17:40*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*06/20/19 17:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/20/19 17:40*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Barium	**0.041**		0.020		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:01	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:01	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-1
Lab Sample ID: 680-170257-19
Date Collected: 06/10/19 12:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 18:03	1
Acrylonitrile	ND		50		ug/L			06/20/19 18:03	1
Benzene	ND		2.0		ug/L			06/20/19 18:03	1
Bromochloromethane	ND		10		ug/L			06/20/19 18:03	1
Bromodichloromethane	ND		10		ug/L			06/20/19 18:03	1
Bromoform	ND		10		ug/L			06/20/19 18:03	1
Bromomethane	ND		10		ug/L			06/20/19 18:03	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 18:03	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 18:03	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 18:03	1
Chlorobenzene	ND		10		ug/L			06/20/19 18:03	1
Chloroethane	ND		2.0		ug/L			06/20/19 18:03	1
Chloroform	ND		2.0		ug/L			06/20/19 18:03	1
Chloromethane	ND		10		ug/L			06/20/19 18:03	1
Dibromochloromethane	ND		10		ug/L			06/20/19 18:03	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 18:03	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 18:03	1
Dibromomethane	ND		10		ug/L			06/20/19 18:03	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 18:03	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 18:03	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 18:03	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 18:03	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 18:03	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 18:03	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 18:03	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 18:03	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 18:03	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 18:03	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 18:03	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 18:03	1
2-Hexanone	ND		50		ug/L			06/20/19 18:03	1
Iodomethane	ND		100		ug/L			06/20/19 18:03	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 18:03	1
Styrene	ND		10		ug/L			06/20/19 18:03	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 18:03	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 18:03	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 18:03	1
Toluene	ND		2.0		ug/L			06/20/19 18:03	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 18:03	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 18:03	1
Trichloroethene	ND		2.0		ug/L			06/20/19 18:03	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 18:03	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 18:03	1
Vinyl acetate	ND		100		ug/L			06/20/19 18:03	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 18:03	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/19 18:03*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-1
Lab Sample ID: 680-170257-19
Date Collected: 06/10/19 12:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		06/20/19 18:03	1
Dibromofluoromethane (Surr)	107		80 - 122		06/20/19 18:03	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/20/19 18:03	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1A
Lab Sample ID: 680-170257-20

Date Collected: 06/10/19 13:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 18:27	1
Acrylonitrile	ND		50		ug/L			06/20/19 18:27	1
Benzene	ND		2.0		ug/L			06/20/19 18:27	1
Bromochloromethane	ND		10		ug/L			06/20/19 18:27	1
Bromodichloromethane	ND		10		ug/L			06/20/19 18:27	1
Bromoform	ND		10		ug/L			06/20/19 18:27	1
Bromomethane	ND		10		ug/L			06/20/19 18:27	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 18:27	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 18:27	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 18:27	1
Chlorobenzene	ND		10		ug/L			06/20/19 18:27	1
Chloroethane	ND		2.0		ug/L			06/20/19 18:27	1
Chloroform	ND		2.0		ug/L			06/20/19 18:27	1
Chloromethane	ND		10		ug/L			06/20/19 18:27	1
Dibromochloromethane	ND		10		ug/L			06/20/19 18:27	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 18:27	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 18:27	1
Dibromomethane	ND		10		ug/L			06/20/19 18:27	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 18:27	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 18:27	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 18:27	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 18:27	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 18:27	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 18:27	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 18:27	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 18:27	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 18:27	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 18:27	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 18:27	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 18:27	1
2-Hexanone	ND		50		ug/L			06/20/19 18:27	1
Iodomethane	ND		100		ug/L			06/20/19 18:27	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 18:27	1
Styrene	ND		10		ug/L			06/20/19 18:27	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 18:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 18:27	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 18:27	1
Toluene	ND		2.0		ug/L			06/20/19 18:27	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 18:27	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 18:27	1
Trichloroethene	ND		2.0		ug/L			06/20/19 18:27	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 18:27	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 18:27	1
Vinyl acetate	ND		100		ug/L			06/20/19 18:27	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 18:27	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/19 18:27*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1A
Lab Sample ID: 680-170257-20
Date Collected: 06/10/19 13:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		73 - 131		06/20/19 18:27	1
Dibromofluoromethane (Surr)	107		80 - 122		06/20/19 18:27	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/20/19 18:27	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWA-1A

Date Collected: 06/11/19 08:30
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-21

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Barium	**0.024**		0.020		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Chromium	**0.011**		0.010		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:52	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:52	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-1
Lab Sample ID: 680-170257-22
Date Collected: 06/11/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Barium	**0.028**		0.020		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:48	1
Total Zinc	**0.042**		0.020		mg/L		06/13/19 15:02	06/17/19 17:48	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-4A
Lab Sample ID: 680-170257-23
Date Collected: 06/11/19 10:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 14:05	1
Acrylonitrile	ND		50		ug/L			06/24/19 14:05	1
Benzene	ND		2.0		ug/L			06/24/19 14:05	1
Bromochloromethane	ND		10		ug/L			06/24/19 14:05	1
Bromodichloromethane	ND		10		ug/L			06/24/19 14:05	1
Bromoform	ND		10		ug/L			06/24/19 14:05	1
Bromomethane	ND		10		ug/L			06/24/19 14:05	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 14:05	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 14:05	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 14:05	1
Chlorobenzene	ND		10		ug/L			06/24/19 14:05	1
Chloroethane	ND		2.0		ug/L			06/24/19 14:05	1
Chloroform	ND		2.0		ug/L			06/24/19 14:05	1
Chloromethane	ND		10		ug/L			06/24/19 14:05	1
Dibromochloromethane	ND		10		ug/L			06/24/19 14:05	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 14:05	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 14:05	1
Dibromomethane	ND		10		ug/L			06/24/19 14:05	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 14:05	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 14:05	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 14:05	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 14:05	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 14:05	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 14:05	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 14:05	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 14:05	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 14:05	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 14:05	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 14:05	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 14:05	1
2-Hexanone	ND		50		ug/L			06/24/19 14:05	1
Iodomethane	ND		100		ug/L			06/24/19 14:05	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 14:05	1
Styrene	ND		10		ug/L			06/24/19 14:05	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 14:05	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 14:05	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 14:05	1
Toluene	ND		2.0		ug/L			06/24/19 14:05	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 14:05	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 14:05	1
Trichloroethene	ND		2.0		ug/L			06/24/19 14:05	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 14:05	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 14:05	1
Vinyl acetate	ND		100		ug/L			06/24/19 14:05	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 14:05	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/24/19 14:05*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-4A
Lab Sample ID: 680-170257-23
Date Collected: 06/11/19 10:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		73 - 131		06/24/19 14:05	1
Dibromofluoromethane (Surr)	105		80 - 122		06/24/19 14:05	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/24/19 14:05	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWA-4

Date Collected: 06/11/19 13:45
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 14:28	1
Acrylonitrile	ND		50		ug/L			06/24/19 14:28	1
Benzene	ND		2.0		ug/L			06/24/19 14:28	1
Bromochloromethane	ND		10		ug/L			06/24/19 14:28	1
Bromodichloromethane	ND		10		ug/L			06/24/19 14:28	1
Bromoform	ND		10		ug/L			06/24/19 14:28	1
Bromomethane	ND		10		ug/L			06/24/19 14:28	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 14:28	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 14:28	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 14:28	1
Chlorobenzene	ND		10		ug/L			06/24/19 14:28	1
Chloroethane	ND		2.0		ug/L			06/24/19 14:28	1
Chloroform	ND		2.0		ug/L			06/24/19 14:28	1
Chloromethane	ND		10		ug/L			06/24/19 14:28	1
Dibromochloromethane	ND		10		ug/L			06/24/19 14:28	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 14:28	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 14:28	1
Dibromomethane	ND		10		ug/L			06/24/19 14:28	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 14:28	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 14:28	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 14:28	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 14:28	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 14:28	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 14:28	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 14:28	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 14:28	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 14:28	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 14:28	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 14:28	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 14:28	1
2-Hexanone	ND		50		ug/L			06/24/19 14:28	1
Iodomethane	ND		100		ug/L			06/24/19 14:28	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 14:28	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 14:28	1
Styrene	ND		10		ug/L			06/24/19 14:28	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 14:28	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 14:28	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 14:28	1
Toluene	ND		2.0		ug/L			06/24/19 14:28	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 14:28	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 14:28	1
Trichloroethene	ND		2.0		ug/L			06/24/19 14:28	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 14:28	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 14:28	1
Vinyl acetate	ND		100		ug/L			06/24/19 14:28	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 14:28	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/24/19 14:28*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-4
Lab Sample ID: 680-170257-24
Date Collected: 06/11/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		73 - 131		06/24/19 14:28	1
Dibromofluoromethane (Surr)	104		80 - 122		06/24/19 14:28	1
4-Bromofluorobenzene (Surr)	100		80 - 120		06/24/19 14:28	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWB-1
Lab Sample ID: 680-170257-25

Date Collected: 06/11/19 14:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/21/19 06:42	1
Acrylonitrile	ND		50		ug/L			06/21/19 06:42	1
Benzene	ND		2.0		ug/L			06/21/19 06:42	1
Bromochloromethane	ND		10		ug/L			06/21/19 06:42	1
Bromodichloromethane	ND		10		ug/L			06/21/19 06:42	1
Bromoform	ND		10		ug/L			06/21/19 06:42	1
Bromomethane	ND		10		ug/L			06/21/19 06:42	1
2-Butanone (MEK)	ND		100		ug/L			06/21/19 06:42	1
Carbon disulfide	ND		5.0		ug/L			06/21/19 06:42	1
Carbon tetrachloride	ND		2.0		ug/L			06/21/19 06:42	1
Chlorobenzene	ND		10		ug/L			06/21/19 06:42	1
Chloroethane	ND		2.0		ug/L			06/21/19 06:42	1
Chloroform	ND		2.0		ug/L			06/21/19 06:42	1
Chloromethane	ND		10		ug/L			06/21/19 06:42	1
Dibromochloromethane	ND		10		ug/L			06/21/19 06:42	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/21/19 06:42	1
1,2-Dibromoethane	ND		1.0		ug/L			06/21/19 06:42	1
Dibromomethane	ND		10		ug/L			06/21/19 06:42	1
1,2-Dichlorobenzene	ND		10		ug/L			06/21/19 06:42	1
1,4-Dichlorobenzene	ND		10		ug/L			06/21/19 06:42	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/21/19 06:42	1
1,1-Dichloroethane	ND		2.0		ug/L			06/21/19 06:42	1
1,2-Dichloroethane	ND		2.0		ug/L			06/21/19 06:42	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 06:42	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 06:42	1
1,1-Dichloroethene	ND		2.0		ug/L			06/21/19 06:42	1
1,2-Dichloropropane	ND		2.0		ug/L			06/21/19 06:42	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 06:42	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 06:42	1
Ethylbenzene	ND		2.0		ug/L			06/21/19 06:42	1
2-Hexanone	ND		50		ug/L			06/21/19 06:42	1
Iodomethane	ND		100		ug/L			06/21/19 06:42	1
Methylene Chloride	ND		5.0		ug/L			06/21/19 06:42	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/19 06:42	1
Styrene	ND		10		ug/L			06/21/19 06:42	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 06:42	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 06:42	1
Tetrachloroethene	ND		2.0		ug/L			06/21/19 06:42	1
Toluene	ND		2.0		ug/L			06/21/19 06:42	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/21/19 06:42	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/21/19 06:42	1
Trichloroethene	ND		2.0		ug/L			06/21/19 06:42	1
Trichlorofluoromethane	ND		10		ug/L			06/21/19 06:42	1
1,2,3-Trichloropropane	ND		10		ug/L			06/21/19 06:42	1
Vinyl acetate	ND		100		ug/L			06/21/19 06:42	1
Vinyl chloride	ND		2.0		ug/L			06/21/19 06:42	1
Xylenes, Total	ND		5.0		ug/L			06/21/19 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/21/19 06:42*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWB-1
Lab Sample ID: 680-170257-25
Date Collected: 06/11/19 14:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		73 - 131		06/21/19 06:42	1
Dibromofluoromethane (Surr)	109		80 - 122		06/21/19 06:42	1
4-Bromofluorobenzene (Surr)	102		80 - 120		06/21/19 06:42	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-2
Date Collected: 06/11/19 15:15
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/21/19 07:05	1
Acrylonitrile	ND		50		ug/L			06/21/19 07:05	1
Benzene	ND		2.0		ug/L			06/21/19 07:05	1
Bromochloromethane	ND		10		ug/L			06/21/19 07:05	1
Bromodichloromethane	ND		10		ug/L			06/21/19 07:05	1
Bromoform	ND		10		ug/L			06/21/19 07:05	1
Bromomethane	ND		10		ug/L			06/21/19 07:05	1
2-Butanone (MEK)	ND		100		ug/L			06/21/19 07:05	1
Carbon disulfide	ND		5.0		ug/L			06/21/19 07:05	1
Carbon tetrachloride	ND		2.0		ug/L			06/21/19 07:05	1
Chlorobenzene	ND		10		ug/L			06/21/19 07:05	1
Chloroethane	ND		2.0		ug/L			06/21/19 07:05	1
Chloroform	ND		2.0		ug/L			06/21/19 07:05	1
Chloromethane	ND		10		ug/L			06/21/19 07:05	1
Dibromochloromethane	ND		10		ug/L			06/21/19 07:05	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/21/19 07:05	1
1,2-Dibromoethane	ND		1.0		ug/L			06/21/19 07:05	1
Dibromomethane	ND		10		ug/L			06/21/19 07:05	1
1,2-Dichlorobenzene	ND		10		ug/L			06/21/19 07:05	1
1,4-Dichlorobenzene	ND		10		ug/L			06/21/19 07:05	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/21/19 07:05	1
1,1-Dichloroethane	ND		2.0		ug/L			06/21/19 07:05	1
1,2-Dichloroethane	ND		2.0		ug/L			06/21/19 07:05	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 07:05	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 07:05	1
1,1-Dichloroethene	ND		2.0		ug/L			06/21/19 07:05	1
1,2-Dichloropropane	ND		2.0		ug/L			06/21/19 07:05	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 07:05	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 07:05	1
Ethylbenzene	ND		2.0		ug/L			06/21/19 07:05	1
2-Hexanone	ND		50		ug/L			06/21/19 07:05	1
Iodomethane	ND		100		ug/L			06/21/19 07:05	1
Methylene Chloride	ND		5.0		ug/L			06/21/19 07:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/19 07:05	1
Styrene	ND		10		ug/L			06/21/19 07:05	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 07:05	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 07:05	1
Tetrachloroethene	ND		2.0		ug/L			06/21/19 07:05	1
Toluene	ND		2.0		ug/L			06/21/19 07:05	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/21/19 07:05	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/21/19 07:05	1
Trichloroethene	ND		2.0		ug/L			06/21/19 07:05	1
Trichlorofluoromethane	ND		10		ug/L			06/21/19 07:05	1
1,2,3-Trichloropropane	ND		10		ug/L			06/21/19 07:05	1
Vinyl acetate	ND		100		ug/L			06/21/19 07:05	1
Vinyl chloride	ND		2.0		ug/L			06/21/19 07:05	1
Xylenes, Total	ND		5.0		ug/L			06/21/19 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/19 07:05*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-2
Lab Sample ID: 680-170257-26
Date Collected: 06/11/19 15:15
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		73 - 131		06/21/19 07:05	1
Dibromofluoromethane (Surr)	110		80 - 122		06/21/19 07:05	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/21/19 07:05	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWA-3
Date Collected: 06/11/19 15:55
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/21/19 07:28	1
Acrylonitrile	ND		50		ug/L			06/21/19 07:28	1
Benzene	ND		2.0		ug/L			06/21/19 07:28	1
Bromochloromethane	ND		10		ug/L			06/21/19 07:28	1
Bromodichloromethane	ND		10		ug/L			06/21/19 07:28	1
Bromoform	ND		10		ug/L			06/21/19 07:28	1
Bromomethane	ND		10		ug/L			06/21/19 07:28	1
2-Butanone (MEK)	ND		100		ug/L			06/21/19 07:28	1
Carbon disulfide	ND		5.0		ug/L			06/21/19 07:28	1
Carbon tetrachloride	ND		2.0		ug/L			06/21/19 07:28	1
Chlorobenzene	ND		10		ug/L			06/21/19 07:28	1
Chloroethane	ND		2.0		ug/L			06/21/19 07:28	1
Chloroform	ND		2.0		ug/L			06/21/19 07:28	1
Chloromethane	ND		10		ug/L			06/21/19 07:28	1
Dibromochloromethane	ND		10		ug/L			06/21/19 07:28	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/21/19 07:28	1
1,2-Dibromoethane	ND		1.0		ug/L			06/21/19 07:28	1
Dibromomethane	ND		10		ug/L			06/21/19 07:28	1
1,2-Dichlorobenzene	ND		10		ug/L			06/21/19 07:28	1
1,4-Dichlorobenzene	ND		10		ug/L			06/21/19 07:28	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/21/19 07:28	1
1,1-Dichloroethane	ND		2.0		ug/L			06/21/19 07:28	1
1,2-Dichloroethane	ND		2.0		ug/L			06/21/19 07:28	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 07:28	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/21/19 07:28	1
1,1-Dichloroethene	ND		2.0		ug/L			06/21/19 07:28	1
1,2-Dichloropropane	ND		2.0		ug/L			06/21/19 07:28	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 07:28	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/21/19 07:28	1
Ethylbenzene	ND		2.0		ug/L			06/21/19 07:28	1
2-Hexanone	ND		50		ug/L			06/21/19 07:28	1
Iodomethane	ND		100		ug/L			06/21/19 07:28	1
Methylene Chloride	ND		5.0		ug/L			06/21/19 07:28	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/21/19 07:28	1
Styrene	ND		10		ug/L			06/21/19 07:28	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 07:28	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/21/19 07:28	1
Tetrachloroethene	ND		2.0		ug/L			06/21/19 07:28	1
Toluene	ND		2.0		ug/L			06/21/19 07:28	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/21/19 07:28	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/21/19 07:28	1
Trichloroethene	ND		2.0		ug/L			06/21/19 07:28	1
Trichlorofluoromethane	ND		10		ug/L			06/21/19 07:28	1
1,2,3-Trichloropropane	ND		10		ug/L			06/21/19 07:28	1
Vinyl acetate	ND		100		ug/L			06/21/19 07:28	1
Vinyl chloride	ND		2.0		ug/L			06/21/19 07:28	1
Xylenes, Total	ND		5.0		ug/L			06/21/19 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/19 07:28*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-3
Lab Sample ID: 680-170257-27
Date Collected: 06/11/19 15:55
Matrix: Water
Date Received: 06/13/19 07:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		73 - 131		06/21/19 07:28	1
Dibromofluoromethane (Surr)	108		80 - 122		06/21/19 07:28	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/21/19 07:28	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-4A
Lab Sample ID: 680-170257-28
Date Collected: 06/12/19 08:50
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Barium	**0.074**		0.020		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Chromium	**0.026**		0.010		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Nickel	**0.022**		0.020		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Vanadium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:55	1
Total Zinc	**0.023**		0.020		mg/L		06/15/19 10:26	06/18/19 00:55	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-29

Date Collected: 06/11/19 13:15
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 15:05	1
Acetonitrile	ND		200		ug/L			06/20/19 15:05	1
Acrolein	ND		50		ug/L			06/20/19 15:05	1
Acrylonitrile	ND		50		ug/L			06/20/19 15:05	1
Benzene	ND		2.0		ug/L			06/20/19 15:05	1
Bromochloromethane	ND		10		ug/L			06/20/19 15:05	1
Bromodichloromethane	ND		10		ug/L			06/20/19 15:05	1
Bromoform	ND		10		ug/L			06/20/19 15:05	1
Bromomethane	ND		10		ug/L			06/20/19 15:05	1
2-Butanone	ND		100		ug/L			06/20/19 15:05	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 15:05	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 15:05	1
Chlorobenzene	ND		10		ug/L			06/20/19 15:05	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 15:05	1
Chloroethane	ND		2.0		ug/L			06/20/19 15:05	1
Chloroform	ND		2.0		ug/L			06/20/19 15:05	1
Chloromethane	ND		10		ug/L			06/20/19 15:05	1
Allyl chloride	ND		100		ug/L			06/20/19 15:05	1
Dibromochloromethane	ND		10		ug/L			06/20/19 15:05	1
Dibromomethane	ND		10		ug/L			06/20/19 15:05	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 15:05	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 15:05	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 15:05	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 15:05	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 15:05	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 15:05	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 15:05	1
cis-1,2-Dichloroethene	**14**		2.0		ug/L			06/20/19 15:05	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 15:05	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 15:05	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:05	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 15:05	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:05	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 15:05	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:05	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:05	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 15:05	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 15:05	1
2-Hexanone	ND		50		ug/L			06/20/19 15:05	1
Iodomethane	ND		100		ug/L			06/20/19 15:05	1
Isobutanol	ND		200		ug/L			06/20/19 15:05	1
Methacrylonitrile	ND		100		ug/L			06/20/19 15:05	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 15:05	1
Methyl methacrylate	ND		10		ug/L			06/20/19 15:05	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 15:05	1
Naphthalene	ND		10		ug/L			06/20/19 15:05	1
Propionitrile	ND		75		ug/L			06/20/19 15:05	1
Styrene	ND		10		ug/L			06/20/19 15:05	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:05	1

Client Sample ID: GWC-18 Lab Sample ID: 680-170257-29

Date Collected: 06/11/19 13:15 **Matrix: Water**
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:05	1
Tetrachloroethene	**3.9**		2.0		ug/L			06/20/19 15:05	1
Toluene	ND		2.0		ug/L			06/20/19 15:05	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 15:05	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 15:05	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 15:05	1
Trichloroethene	ND		2.0		ug/L			06/20/19 15:05	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 15:05	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 15:05	1
Vinyl acetate	ND		100		ug/L			06/20/19 15:05	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 15:05	1
Xylenes	ND		5.0		ug/L			06/20/19 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/20/19 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 15:05*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 15:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/20/19 15:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Acenaphthylene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Acetophenone	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Acetylaminofluorene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
4-Aminobiphenyl	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
1,4-Benzenediamine	ND		8500		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzo[a]anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzo[a]pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzo[b]fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzo[g,h,i]perylene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzo[k]fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Benzyl alcohol	ND		85		ug/L		06/18/19 15:26	06/26/19 00:19	1
Bis(2-chloroethoxy)methane	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Bis(2-chloroethyl)ether	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Bis(2-ethylhexyl) phthalate	ND		26		ug/L		06/18/19 15:26	06/26/19 00:19	1
4-Bromophenyl phenyl ether	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Butyl benzyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Chloronaphthalene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Chlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
4-Chlorophenyl phenyl ether	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Chrysene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Diallate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Dibenz(a,h)anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Dibenzofuran	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
3,3'-Dichlorobenzidine	ND	*	260		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4-Dichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,6-Dichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Diethyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-29
Date Collected: 06/11/19 13:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
7,12-Dimethylbenz(a)anthracene	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:19	1
3,3'-Dimethylbenzidine	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4-Dimethylphenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Dimethyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Di-n-butyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
4,6-Dinitro-o-cresol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4-Dinitrophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4-Dinitrotoluene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,6-Dinitrotoluene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Di-n-octyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Di-n-propylnitrosamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Disulfoton	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Ethyl methanesulfonate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Famphur	ND	*	43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Fluorene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Hexachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Hexachlorobutadiene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Hexachlorocyclopentadiene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Hexachloroethane	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Hexachloropropene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Indeno[1,2,3-cd]pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Isophorone	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Isosafrole	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Kepone	ND	*	85		ug/L		06/18/19 15:26	06/26/19 00:19	1
m-Dinitrobenzene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Methapyrilene	ND		8500		ug/L		06/18/19 15:26	06/26/19 00:19	1
3-Methylcholanthrene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Methyl methanesulfonate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Methylnaphthalene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Methyl parathion	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
m & p - Cresol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
1,4-Naphthoquinone	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
1-Naphthylamine	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Naphthylamine	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Nitroaniline	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
3-Nitroaniline	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Nitroaniline, p-	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Nitrobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
5-Nitro-o-toluidine	ND		85		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-Nitrophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
4-Nitrophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosodiethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosodimethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosodi-n-butylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosodiphenylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosomethylethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
N-Nitrosopiperidine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-29
Date Collected: 06/11/19 13:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		85		ug/L		06/18/19 15:26	06/26/19 00:19	1
o-Cresol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
o,o',o''-Triethylphosphorothioate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
o-Toluidine	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,2'-oxybis[1-chloropropane]	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Parathion	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
p-Chloroaniline	ND		85		ug/L		06/18/19 15:26	06/26/19 00:19	1
p-Chloro-m-cresol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
p-Dimethylamino azobenzene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Pentachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Pentachloronitrobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Pentachlorophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Phenacetin	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
Phenanthrene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Phenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Phorate	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Pronamide	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
Safrole	ND		210		ug/L		06/18/19 15:26	06/26/19 00:19	1
2-sec-Butyl-4,6-dinitrophenol	ND		30		ug/L		06/18/19 15:26	06/26/19 00:19	1
1,2,4,5-Tetrachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,3,4,6-Tetrachlorophenol	ND		85		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4,5-Trichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
2,4,6-Trichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1
1,3,5-Trinitrobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*46 - 124*	*06/18/19 15:26*	*06/26/19 00:19*	*1*
2-Fluorophenol	*61*		*13 - 113*	*06/18/19 15:26*	*06/26/19 00:19*	*1*
Nitrobenzene-d5	*84*		*36 - 126*	*06/18/19 15:26*	*06/26/19 00:19*	*1*
Phenol-d5	*79*		*17 - 127*	*06/18/19 15:26*	*06/26/19 00:19*	*1*
Terphenyl-d14	*87*		*44 - 149*	*06/18/19 15:26*	*06/26/19 00:19*	*1*
2,4,6-Tribromophenol	*86*		*26 - 150*	*06/18/19 15:26*	*06/26/19 00:19*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 17:37	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 17:37	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.037		ug/L		07/10/19 14:27	07/15/19 16:24	1
4,4'-DDE	ND		0.037		ug/L		07/10/19 14:27	07/15/19 16:24	1
BHC-alpha	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
BHC-beta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
Chlordane	ND		0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1
BHC-delta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
Endosulfan I	ND		0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1
Endosulfan II	ND		0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1
Endosulfan sulfate	ND		0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-29
Date Collected: 06/11/19 13:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.037		ug/L		07/10/19 14:27	07/15/19 16:24	1
Chlorobenzilate	ND		1.8		ug/L		07/10/19 14:27	07/15/19 16:24	1
Heptachlor epoxide	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
Isodrin	ND		0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1
Methoxychlor	ND	*	0.091		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1016	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1221	ND		0.37		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1232	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1242	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1248	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1254	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aroclor 1260	ND		0.18		ug/L		07/10/19 14:27	07/15/19 16:24	1
Toxaphene	ND		0.55		ug/L		07/10/19 14:27	07/15/19 16:24	1
4,4'-DDT	ND		0.037		ug/L		07/10/19 14:27	07/15/19 16:24	1
Aldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
Dieldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
Endrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 16:24	1
BHC-gamma	ND		0.0091		ug/L		07/10/19 14:27	07/15/19 16:24	1
Heptachlor	ND		0.0091		ug/L		07/10/19 14:27	07/15/19 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*21*		*10 - 130*	*07/10/19 14:27*	*07/15/19 16:24*	*1*
Tetrachloro-m-xylene	*39*		*39 - 130*	*07/10/19 14:27*	*07/15/19 16:24*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/26/19 18:08	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/26/19 18:08	1
2,4,5-TP	ND		9.8		ug/L		06/14/19 09:44	06/26/19 18:08	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.98		ug/L		06/14/19 09:44	06/26/19 18:08	1
Pentachlorophenol	ND		0.98		ug/L		06/14/19 09:44	06/26/19 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*101*		*45 - 130*	*06/14/19 09:44*	*06/26/19 18:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.2		0.83		mg/L			06/17/19 16:39	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-30

Date Collected: 06/10/19 13:40
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 03:37	1
Acetonitrile	ND		200		ug/L			06/20/19 03:37	1
Acrolein	ND		50		ug/L			06/20/19 03:37	1
Acrylonitrile	ND		50		ug/L			06/20/19 03:37	1
Benzene	ND		2.0		ug/L			06/20/19 03:37	1
Bromochloromethane	ND		10		ug/L			06/20/19 03:37	1
Bromodichloromethane	ND		10		ug/L			06/20/19 03:37	1
Bromoform	ND		10		ug/L			06/20/19 03:37	1
Bromomethane	ND		10		ug/L			06/20/19 03:37	1
2-Butanone	ND		100		ug/L			06/20/19 03:37	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 03:37	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 03:37	1
Chlorobenzene	ND		10		ug/L			06/20/19 03:37	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 03:37	1
Chloroethane	ND		2.0		ug/L			06/20/19 03:37	1
Chloroform	ND		2.0		ug/L			06/20/19 03:37	1
Chloromethane	ND		10		ug/L			06/20/19 03:37	1
Allyl chloride	ND		100		ug/L			06/20/19 03:37	1
Dibromochloromethane	ND		10		ug/L			06/20/19 03:37	1
Dibromomethane	ND		10		ug/L			06/20/19 03:37	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 03:37	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 03:37	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 03:37	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 03:37	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 03:37	1
1,1-Dichloroethane	**3.3**		2.0		ug/L			06/20/19 03:37	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 03:37	1
cis-1,2-Dichloroethene	**19**		2.0		ug/L			06/20/19 03:37	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 03:37	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 03:37	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 03:37	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 03:37	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 03:37	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 03:37	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 03:37	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 03:37	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 03:37	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 03:37	1
2-Hexanone	ND		50		ug/L			06/20/19 03:37	1
Iodomethane	ND		100		ug/L			06/20/19 03:37	1
Isobutanol	ND		200		ug/L			06/20/19 03:37	1
Methacrylonitrile	ND		100		ug/L			06/20/19 03:37	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 03:37	1
Methyl methacrylate	ND		10		ug/L			06/20/19 03:37	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 03:37	1
Naphthalene	ND		10		ug/L			06/20/19 03:37	1
Propionitrile	ND		75		ug/L			06/20/19 03:37	1
Styrene	ND		10		ug/L			06/20/19 03:37	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 03:37	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-30
Date Collected: 06/10/19 13:40
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 03:37	1
Tetrachloroethene	**11**		2.0		ug/L			06/20/19 03:37	1
Toluene	ND		2.0		ug/L			06/20/19 03:37	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 03:37	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 03:37	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 03:37	1
Trichloroethene	**7.4**		2.0		ug/L			06/20/19 03:37	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 03:37	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 03:37	1
Vinyl acetate	ND		100		ug/L			06/20/19 03:37	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 03:37	1
Xylenes	ND		5.0		ug/L			06/20/19 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/20/19 03:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 03:37*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 03:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 03:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Acenaphthylene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Acetophenone	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Acetylaminofluorene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
4-Aminobiphenyl	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Anthracene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
1,4-Benzenediamine	ND		8000		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzo[a]anthracene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzo[a]pyrene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzo[b]fluoranthene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzo[g,h,i]perylene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzo[k]fluoranthene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Benzyl alcohol	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
Bis(2-chloroethoxy)methane	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Bis(2-chloroethyl)ether	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		06/17/19 09:48	06/28/19 21:45	1
4-Bromophenyl phenyl ether	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Butyl benzyl phthalate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Chloronaphthalene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Chlorophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
4-Chlorophenyl phenyl ether	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Chrysene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Diallate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Dibenz(a,h)anthracene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Dibenzofuran	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
3,3'-Dichlorobenzidine	ND		240		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4-Dichlorophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,6-Dichlorophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Diethyl phthalate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-30
Date Collected: 06/10/19 13:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
3,3'-Dimethylbenzidine	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4-Dimethylphenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Dimethyl phthalate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Di-n-butyl phthalate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
4,6-Dinitro-o-cresol	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4-Dinitrophenol	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4-Dinitrotoluene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,6-Dinitrotoluene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Di-n-octyl phthalate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Di-n-propylnitrosamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Disulfoton	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Ethyl methanesulfonate	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Famphur	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Fluoranthene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Fluorene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Hexachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Hexachlorobutadiene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Hexachlorocyclopentadiene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Hexachloroethane	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Hexachloropropene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Isophorone	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Isosafrole	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Kepone	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
m-Dinitrobenzene	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Methapyrilene	ND		8000		ug/L		06/17/19 09:48	06/28/19 21:45	1
3-Methylcholanthrene	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Methyl methanesulfonate	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Methylnaphthalene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Methyl parathion	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
m & p - Cresol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
1,4-Naphthoquinone	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
1-Naphthylamine	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Naphthylamine	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Nitroaniline	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
3-Nitroaniline	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Nitroaniline, p-	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Nitrobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
5-Nitro-o-toluidine	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-Nitrophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
4-Nitrophenol	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosodiethylamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosodimethylamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosodi-n-butylamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosodiphenylamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosomethylethylamine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
N-Nitrosopiperidine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1

Client Sample ID: PH1-GWC-3 **Lab Sample ID: 680-170257-30**
Date Collected: 06/10/19 13:40 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
o-Cresol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
o,o',o''-Triethylphosphorothioate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
o-Toluidine	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,2'-oxybis[1-chloropropane]	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Parathion	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
p-Chloroaniline	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
p-Chloro-m-cresol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
p-Dimethylamino azobenzene	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Pentachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Pentachloronitrobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Pentachlorophenol	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Phenacetin	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
Phenanthrene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Phenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Phorate	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Pronamide	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Pyrene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
Safrole	ND		200		ug/L		06/17/19 09:48	06/28/19 21:45	1
2-sec-Butyl-4,6-dinitrophenol	ND		28		ug/L		06/17/19 09:48	06/28/19 21:45	1
1,2,4,5-Tetrachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,3,4,6-Tetrachlorophenol	ND		80		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4,5-Trichlorophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
2,4,6-Trichlorophenol	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1
1,3,5-Trinitrobenzene	ND		40		ug/L		06/17/19 09:48	06/28/19 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*46 - 124*	*06/17/19 09:48*	*06/28/19 21:45*	*1*
2-Fluorophenol	*40*		*13 - 113*	*06/17/19 09:48*	*06/28/19 21:45*	*1*
Nitrobenzene-d5	*83*		*36 - 126*	*06/17/19 09:48*	*06/28/19 21:45*	*1*
Phenol-d5	*70*		*17 - 127*	*06/17/19 09:48*	*06/28/19 21:45*	*1*
Terphenyl-d14	*106*		*44 - 149*	*06/17/19 09:48*	*06/28/19 21:45*	*1*
2,4,6-Tribromophenol	*92*		*26 - 150*	*06/17/19 09:48*	*06/28/19 21:45*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 18:27	1
1,2-Dibromoethane	ND		0.046		ug/L		06/14/19 13:18	06/14/19 18:27	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:41	1
4,4'-DDE	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:41	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
Chlordane	ND		0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
Endosulfan I	ND		0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1
Endosulfan II	ND		0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1
Endosulfan sulfate	ND		0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-30
Date Collected: 06/10/19 13:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:41	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 16:41	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
Isodrin	ND		0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1
Methoxychlor	ND	*	0.085		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1221	ND		0.34		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:41	1
Toxaphene	ND		0.51		ug/L		07/10/19 14:27	07/15/19 16:41	1
4,4'-DDT	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:41	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:41	1
BHC-gamma	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 16:41	1
Heptachlor	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*10 - 130*	*07/10/19 14:27*	*07/15/19 16:41*	*1*
Tetrachloro-m-xylene	*73*		*39 - 130*	*07/10/19 14:27*	*07/15/19 16:41*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/26/19 21:45	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/26/19 21:45	1
2,4,5-TP	ND		9.7		ug/L		06/14/19 09:44	06/26/19 21:45	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 21:45	1
Pentachlorophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*101*		*45 - 130*	*06/14/19 09:44*	*06/26/19 21:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**1.2**		0.82		mg/L			06/17/19 16:42	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31

Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 03:14	1
Acetonitrile	ND		200		ug/L			06/20/19 03:14	1
Acrolein	ND		50		ug/L			06/20/19 03:14	1
Acrylonitrile	ND		50		ug/L			06/20/19 03:14	1
Benzene	ND		2.0		ug/L			06/20/19 03:14	1
Bromochloromethane	ND		10		ug/L			06/20/19 03:14	1
Bromodichloromethane	ND		10		ug/L			06/20/19 03:14	1
Bromoform	ND		10		ug/L			06/20/19 03:14	1
Bromomethane	ND		10		ug/L			06/20/19 03:14	1
2-Butanone	ND		100		ug/L			06/20/19 03:14	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 03:14	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 03:14	1
Chlorobenzene	ND		10		ug/L			06/20/19 03:14	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 03:14	1
Chloroethane	ND		2.0		ug/L			06/20/19 03:14	1
Chloroform	ND		2.0		ug/L			06/20/19 03:14	1
Chloromethane	ND		10		ug/L			06/20/19 03:14	1
Allyl chloride	ND		100		ug/L			06/20/19 03:14	1
Dibromochloromethane	ND		10		ug/L			06/20/19 03:14	1
Dibromomethane	ND		10		ug/L			06/20/19 03:14	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 03:14	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 03:14	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 03:14	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 03:14	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 03:14	1
1,1-Dichloroethane	**2.5**		2.0		ug/L			06/20/19 03:14	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 03:14	1
cis-1,2-Dichloroethene	**11**		2.0		ug/L			06/20/19 03:14	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 03:14	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 03:14	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 03:14	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 03:14	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 03:14	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 03:14	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 03:14	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 03:14	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 03:14	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 03:14	1
2-Hexanone	ND		50		ug/L			06/20/19 03:14	1
Iodomethane	ND		100		ug/L			06/20/19 03:14	1
Isobutanol	ND		200		ug/L			06/20/19 03:14	1
Methacrylonitrile	ND		100		ug/L			06/20/19 03:14	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 03:14	1
Methyl methacrylate	ND		10		ug/L			06/20/19 03:14	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 03:14	1
Naphthalene	ND		10		ug/L			06/20/19 03:14	1
Propionitrile	ND		75		ug/L			06/20/19 03:14	1
Styrene	ND		10		ug/L			06/20/19 03:14	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 03:14	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31

Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 03:14	1
Tetrachloroethene	**8.8**		2.0		ug/L			06/20/19 03:14	1
Toluene	ND		2.0		ug/L			06/20/19 03:14	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 03:14	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 03:14	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 03:14	1
Trichloroethene	**5.7**		2.0		ug/L			06/20/19 03:14	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 03:14	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 03:14	1
Vinyl acetate	ND		100		ug/L			06/20/19 03:14	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 03:14	1
Xylenes	ND		5.0		ug/L			06/20/19 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/20/19 03:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 03:14*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 03:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/20/19 03:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Acenaphthylene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Acetophenone	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Acetylaminofluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
4-Aminobiphenyl	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
1,4-Benzenediamine	ND		7400		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzo[a]anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzo[a]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzo[b]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzo[g,h,i]perylene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzo[k]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Benzyl alcohol	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
Bis(2-chloroethoxy)methane	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Bis(2-chloroethyl)ether	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Bis(2-ethylhexyl) phthalate	ND		22		ug/L		06/17/19 09:48	06/28/19 22:07	1
4-Bromophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Butyl benzyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Chloronaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Chlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
4-Chlorophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Chrysene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Diallate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Dibenz(a,h)anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Dibenzofuran	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
3,3'-Dichlorobenzidine	ND		220		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,6-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Diethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31
Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
7,12-Dimethylbenz(a)anthracene	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
3,3'-Dimethylbenzidine	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4-Dimethylphenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Dimethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Di-n-butyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
4,6-Dinitro-o-cresol	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4-Dinitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,6-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Di-n-octyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Di-n-propylnitrosamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Disulfoton	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Ethyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Famphur	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Fluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Hexachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Hexachlorobutadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Hexachlorocyclopentadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Hexachloroethane	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Hexachloropropene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Indeno[1,2,3-cd]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Isophorone	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Isosafrole	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Kepone	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
m-Dinitrobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Methapyrilene	ND		7400		ug/L		06/17/19 09:48	06/28/19 22:07	1
3-Methylcholanthrene	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Methyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Methylnaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Methyl parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
m & p - Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
1,4-Naphthoquinone	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
1-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
3-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Nitroaniline, p-	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Nitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
5-Nitro-o-toluidine	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-Nitrophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
4-Nitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosodiethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosodimethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosodi-n-butylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosodiphenylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosomethylethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
N-Nitrosopiperidine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31
Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
o-Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
o,o',o''-Triethylphosphorothioate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
o-Toluidine	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,2'-oxybis[1-chloropropane]	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
p-Chloroaniline	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
p-Chloro-m-cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
p-Dimethylamino azobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Pentachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Pentachloronitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Pentachlorophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Phenacetin	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
Phenanthrene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Phenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Phorate	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Pronamide	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
Safrole	ND		190		ug/L		06/17/19 09:48	06/28/19 22:07	1
2-sec-Butyl-4,6-dinitrophenol	ND		26		ug/L		06/17/19 09:48	06/28/19 22:07	1
1,2,4,5-Tetrachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,3,4,6-Tetrachlorophenol	ND		74		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4,5-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
2,4,6-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1
1,3,5-Trinitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*46 - 124*	*06/17/19 09:48*	*06/28/19 22:07*	*1*
2-Fluorophenol	*56*		*13 - 113*	*06/17/19 09:48*	*06/28/19 22:07*	*1*
Nitrobenzene-d5	*86*		*36 - 126*	*06/17/19 09:48*	*06/28/19 22:07*	*1*
Phenol-d5	*80*		*17 - 127*	*06/17/19 09:48*	*06/28/19 22:07*	*1*
Terphenyl-d14	*102*		*44 - 149*	*06/17/19 09:48*	*06/28/19 22:07*	*1*
2,4,6-Tribromophenol	*90*		*26 - 150*	*06/17/19 09:48*	*06/28/19 22:07*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 18:37	1
1,2-Dibromoethane	ND		0.046		ug/L		06/14/19 13:18	06/14/19 18:37	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:57	1
4,4'-DDE	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:57	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
Chlordane	ND		0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
Endosulfan I	ND		0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1
Endosulfan II	ND		0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1
Endosulfan sulfate	ND		0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31
Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:57	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 16:57	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
Isodrin	ND		0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1
Methoxychlor	ND	*	0.086		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1221	ND		0.34		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 16:57	1
Toxaphene	ND		0.52		ug/L		07/10/19 14:27	07/15/19 16:57	1
4,4'-DDT	ND		0.034		ug/L		07/10/19 14:27	07/15/19 16:57	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 16:57	1
BHC-gamma	ND		0.0086		ug/L		07/10/19 14:27	07/15/19 16:57	1
Heptachlor	ND		0.0086		ug/L		07/10/19 14:27	07/15/19 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*10 - 130*	*07/10/19 14:27*	*07/15/19 16:57*	*1*
Tetrachloro-m-xylene	*81*		*39 - 130*	*07/10/19 14:27*	*07/15/19 16:57*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:05	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:05	1
2,4,5-TP	ND		9.7		ug/L		06/14/19 09:44	06/26/19 22:05	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 22:05	1
Pentachlorophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*86*		*45 - 130*	*06/14/19 09:44*	*06/26/19 22:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.85		mg/L			06/17/19 16:46	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-32

Date Collected: 06/11/19 10:35
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Barium	**0.030**		0.020		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:17	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:13	1

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-33

Date Collected: 06/11/19 10:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Barium	**0.030**		0.020		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:58	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:17	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34

Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 15:28	1
Acetonitrile	ND		200		ug/L			06/20/19 15:28	1
Acrolein	ND		50		ug/L			06/20/19 15:28	1
Acrylonitrile	ND		50		ug/L			06/20/19 15:28	1
Benzene	ND		2.0		ug/L			06/20/19 15:28	1
Bromochloromethane	ND		10		ug/L			06/20/19 15:28	1
Bromodichloromethane	ND		10		ug/L			06/20/19 15:28	1
Bromoform	ND		10		ug/L			06/20/19 15:28	1
Bromomethane	ND		10		ug/L			06/20/19 15:28	1
2-Butanone	ND		100		ug/L			06/20/19 15:28	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 15:28	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 15:28	1
Chlorobenzene	ND		10		ug/L			06/20/19 15:28	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 15:28	1
Chloroethane	ND		2.0		ug/L			06/20/19 15:28	1
Chloroform	ND		2.0		ug/L			06/20/19 15:28	1
Chloromethane	ND		10		ug/L			06/20/19 15:28	1
Allyl chloride	ND		100		ug/L			06/20/19 15:28	1
Dibromochloromethane	ND		10		ug/L			06/20/19 15:28	1
Dibromomethane	ND		10		ug/L			06/20/19 15:28	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 15:28	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 15:28	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 15:28	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 15:28	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 15:28	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 15:28	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 15:28	1
cis-1,2-Dichloroethene	**7.7**		2.0		ug/L			06/20/19 15:28	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 15:28	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 15:28	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:28	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 15:28	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:28	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 15:28	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:28	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:28	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 15:28	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 15:28	1
2-Hexanone	ND		50		ug/L			06/20/19 15:28	1
Iodomethane	ND		100		ug/L			06/20/19 15:28	1
Isobutanol	ND		200		ug/L			06/20/19 15:28	1
Methacrylonitrile	ND		100		ug/L			06/20/19 15:28	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 15:28	1
Methyl methacrylate	ND		10		ug/L			06/20/19 15:28	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 15:28	1
Naphthalene	ND		10		ug/L			06/20/19 15:28	1
Propionitrile	ND		75		ug/L			06/20/19 15:28	1
Styrene	ND		10		ug/L			06/20/19 15:28	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:28	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34
Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:28	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 15:28	1
Toluene	ND		2.0		ug/L			06/20/19 15:28	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 15:28	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 15:28	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 15:28	1
Trichloroethene	ND		2.0		ug/L			06/20/19 15:28	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 15:28	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 15:28	1
Vinyl acetate	ND		100		ug/L			06/20/19 15:28	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 15:28	1
Xylenes	ND		5.0		ug/L			06/20/19 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/20/19 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*06/20/19 15:28*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 15:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/20/19 15:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Acenaphthylene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Acetophenone	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Acetylaminofluorene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
4-Aminobiphenyl	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Anthracene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
1,4-Benzenediamine	ND		8400		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzo[a]anthracene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzo[a]pyrene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzo[b]fluoranthene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzo[g,h,i]perylene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzo[k]fluoranthene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Benzyl alcohol	ND		84		ug/L		06/18/19 15:26	06/26/19 00:40	1
Bis(2-chloroethoxy)methane	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Bis(2-chloroethyl)ether	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Bis(2-ethylhexyl) phthalate	ND		25		ug/L		06/18/19 15:26	06/26/19 00:40	1
4-Bromophenyl phenyl ether	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Butyl benzyl phthalate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Chloronaphthalene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Chlorophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
4-Chlorophenyl phenyl ether	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Chrysene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Diallate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Dibenz(a,h)anthracene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Dibenzofuran	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
3,3'-Dichlorobenzidine	ND	*	250		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4-Dichlorophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,6-Dichlorophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Diethyl phthalate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34
Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
7,12-Dimethylbenz(a)anthracene	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:40	1
3,3'-Dimethylbenzidine	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4-Dimethylphenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Dimethyl phthalate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Di-n-butyl phthalate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
4,6-Dinitro-o-cresol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4-Dinitrophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4-Dinitrotoluene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,6-Dinitrotoluene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Di-n-octyl phthalate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Di-n-propylnitrosamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Disulfoton	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Ethyl methanesulfonate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Famphur	ND	*	42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Fluoranthene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Fluorene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Hexachlorobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Hexachlorobutadiene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Hexachlorocyclopentadiene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Hexachloroethane	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Hexachloropropene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Indeno[1,2,3-cd]pyrene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Isophorone	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Isosafrole	ND	*	210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Kepone	ND	*	84		ug/L		06/18/19 15:26	06/26/19 00:40	1
m-Dinitrobenzene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Methapyrilene	ND		8400		ug/L		06/18/19 15:26	06/26/19 00:40	1
3-Methylcholanthrene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Methyl methanesulfonate	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Methylnaphthalene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Methyl parathion	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
m & p - Cresol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
1,4-Naphthoquinone	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
1-Naphthylamine	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Naphthylamine	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Nitroaniline	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
3-Nitroaniline	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Nitroaniline, p-	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Nitrobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
5-Nitro-o-toluidine	ND		84		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-Nitrophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
4-Nitrophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosodiethylamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosodimethylamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosodi-n-butylamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosodiphenylamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosomethylethylamine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
N-Nitrosopiperidine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1

Client Sample ID: GWC-19R **Lab Sample ID: 680-170257-34**
Date Collected: 06/11/19 14:00 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		84		ug/L		06/18/19 15:26	06/26/19 00:40	1
o-Cresol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
o,o',o''-Triethylphosphorothioate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
o-Toluidine	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,2'-oxybis[1-chloropropane]	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Parathion	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
p-Chloroaniline	ND		84		ug/L		06/18/19 15:26	06/26/19 00:40	1
p-Chloro-m-cresol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
p-Dimethylamino azobenzene	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Pentachlorobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Pentachloronitrobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Pentachlorophenol	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Phenacetin	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
Phenanthrene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Phenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Phorate	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Pronamide	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Pyrene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
Safrole	ND		210		ug/L		06/18/19 15:26	06/26/19 00:40	1
2-sec-Butyl-4,6-dinitrophenol	ND		30		ug/L		06/18/19 15:26	06/26/19 00:40	1
1,2,4,5-Tetrachlorobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,3,4,6-Tetrachlorophenol	ND		84		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4,5-Trichlorophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
2,4,6-Trichlorophenol	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1
1,3,5-Trinitrobenzene	ND		42		ug/L		06/18/19 15:26	06/26/19 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*46 - 124*	*06/18/19 15:26*	*06/26/19 00:40*	*1*
2-Fluorophenol	*63*		*13 - 113*	*06/18/19 15:26*	*06/26/19 00:40*	*1*
Nitrobenzene-d5	*92*		*36 - 126*	*06/18/19 15:26*	*06/26/19 00:40*	*1*
Phenol-d5	*87*		*17 - 127*	*06/18/19 15:26*	*06/26/19 00:40*	*1*
Terphenyl-d14	*128*		*44 - 149*	*06/18/19 15:26*	*06/26/19 00:40*	*1*
2,4,6-Tribromophenol	*93*		*26 - 150*	*06/18/19 15:26*	*06/26/19 00:40*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 19:37	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 19:37	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.034		ug/L		07/10/19 14:27	07/15/19 17:13	1
4,4'-DDE	ND		0.034		ug/L		07/10/19 14:27	07/15/19 17:13	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
Chlordane	ND		0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
Endosulfan I	ND		0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1
Endosulfan II	ND		0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1
Endosulfan sulfate	ND		0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34
Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.034		ug/L		07/10/19 14:27	07/15/19 17:13	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 17:13	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
Isodrin	ND		0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1
Methoxychlor	ND	*	0.085		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1221	ND		0.34		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 17:13	1
Toxaphene	ND		0.51		ug/L		07/10/19 14:27	07/15/19 17:13	1
4,4'-DDT	ND		0.034		ug/L		07/10/19 14:27	07/15/19 17:13	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 17:13	1
BHC-gamma	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 17:13	1
Heptachlor	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*10 - 130*	*07/10/19 14:27*	*07/15/19 17:13*	*1*
Tetrachloro-m-xylene	*77*		*39 - 130*	*07/10/19 14:27*	*07/15/19 17:13*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:24	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:24	1
2,4,5-TP	ND		9.7		ug/L		06/14/19 09:44	06/26/19 22:24	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 22:24	1
Pentachlorophenol	ND		0.97		ug/L		06/14/19 09:44	06/26/19 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*89*		*45 - 130*	*06/14/19 09:44*	*06/26/19 22:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.81		mg/L			06/17/19 16:52	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-35

Date Collected: 06/11/19 11:40
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 15:51	1
Acetonitrile	ND		200		ug/L			06/20/19 15:51	1
Acrolein	ND		50		ug/L			06/20/19 15:51	1
Acrylonitrile	ND		50		ug/L			06/20/19 15:51	1
Benzene	**2.1**		2.0		ug/L			06/20/19 15:51	1
Bromochloromethane	ND		10		ug/L			06/20/19 15:51	1
Bromodichloromethane	ND		10		ug/L			06/20/19 15:51	1
Bromoform	ND		10		ug/L			06/20/19 15:51	1
Bromomethane	ND		10		ug/L			06/20/19 15:51	1
2-Butanone	ND		100		ug/L			06/20/19 15:51	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 15:51	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 15:51	1
Chlorobenzene	ND		10		ug/L			06/20/19 15:51	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 15:51	1
Chloroethane	**4.4**		2.0		ug/L			06/20/19 15:51	1
Chloroform	ND		2.0		ug/L			06/20/19 15:51	1
Chloromethane	ND		10		ug/L			06/20/19 15:51	1
Allyl chloride	ND		100		ug/L			06/20/19 15:51	1
Dibromochloromethane	ND		10		ug/L			06/20/19 15:51	1
Dibromomethane	ND		10		ug/L			06/20/19 15:51	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 15:51	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 15:51	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 15:51	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 15:51	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 15:51	1
1,1-Dichloroethane	**9.2**		2.0		ug/L			06/20/19 15:51	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 15:51	1
cis-1,2-Dichloroethene	**46**		2.0		ug/L			06/20/19 15:51	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 15:51	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 15:51	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:51	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 15:51	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 15:51	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 15:51	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:51	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 15:51	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 15:51	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 15:51	1
2-Hexanone	ND		50		ug/L			06/20/19 15:51	1
Iodomethane	ND		100		ug/L			06/20/19 15:51	1
Isobutanol	ND		200		ug/L			06/20/19 15:51	1
Methacrylonitrile	ND		100		ug/L			06/20/19 15:51	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 15:51	1
Methyl methacrylate	ND		10		ug/L			06/20/19 15:51	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 15:51	1
Naphthalene	ND		10		ug/L			06/20/19 15:51	1
Propionitrile	ND		75		ug/L			06/20/19 15:51	1
Styrene	ND		10		ug/L			06/20/19 15:51	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:51	1

Client Sample ID: GWC-14A **Lab Sample ID: 680-170257-35**
Date Collected: 06/11/19 11:40 **Matrix: Water**
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 15:51	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 15:51	1
Toluene	ND		2.0		ug/L			06/20/19 15:51	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 15:51	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 15:51	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 15:51	1
Trichloroethene	ND		2.0		ug/L			06/20/19 15:51	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 15:51	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 15:51	1
Vinyl acetate	ND		100		ug/L			06/20/19 15:51	1
Vinyl chloride	**4.3**		2.0		ug/L			06/20/19 15:51	1
Xylenes	ND		5.0		ug/L			06/20/19 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*06/20/19 15:51*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/20/19 15:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 15:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Acenaphthylene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Acetophenone	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Acetylaminofluorene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
4-Aminobiphenyl	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
1,4-Benzenediamine	ND		8800		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzo[a]anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzo[a]pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzo[b]fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzo[g,h,i]perylene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzo[k]fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Benzyl alcohol	ND		88		ug/L		06/18/19 15:26	06/26/19 01:02	1
Bis(2-chloroethoxy)methane	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Bis(2-chloroethyl)ether	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Bis(2-ethylhexyl) phthalate	ND		26		ug/L		06/18/19 15:26	06/26/19 01:02	1
4-Bromophenyl phenyl ether	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Butyl benzyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Chloronaphthalene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Chlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
4-Chlorophenyl phenyl ether	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Chrysene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Diallate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Dibenz(a,h)anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Dibenzofuran	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
3,3'-Dichlorobenzidine	ND	*	260		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4-Dichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,6-Dichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Diethyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-35
Date Collected: 06/11/19 11:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
7,12-Dimethylbenz(a)anthracene	ND	*	220		ug/L		06/18/19 15:26	06/26/19 01:02	1
3,3'-Dimethylbenzidine	ND	*	220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4-Dimethylphenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Dimethyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Di-n-butyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
4,6-Dinitro-o-cresol	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4-Dinitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4-Dinitrotoluene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,6-Dinitrotoluene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Di-n-octyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Di-n-propylnitrosamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Disulfoton	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Ethyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Famphur	ND	*	44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Fluorene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Hexachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Hexachlorobutadiene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Hexachlorocyclopentadiene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Hexachloroethane	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Hexachloropropene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Indeno[1,2,3-cd]pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Isophorone	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Isosafrole	ND	*	220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Kepone	ND	*	88		ug/L		06/18/19 15:26	06/26/19 01:02	1
m-Dinitrobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Methapyrilene	ND		8800		ug/L		06/18/19 15:26	06/26/19 01:02	1
3-Methylcholanthrene	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Methyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Methylnaphthalene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Methyl parathion	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
m & p - Cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
1,4-Naphthoquinone	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
1-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
3-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Nitroaniline, p-	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Nitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
5-Nitro-o-toluidine	ND		88		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-Nitrophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
4-Nitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosodiethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosodimethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosodi-n-butylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosodiphenylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosomethylethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
N-Nitrosopiperidine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-35
Date Collected: 06/11/19 11:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		88		ug/L		06/18/19 15:26	06/26/19 01:02	1
o-Cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
o,o',o''-Triethylphosphorothioate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
o-Toluidine	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,2'-oxybis[1-chloropropane]	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Parathion	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
p-Chloroaniline	ND		88		ug/L		06/18/19 15:26	06/26/19 01:02	1
p-Chloro-m-cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
p-Dimethylamino azobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Pentachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Pentachloronitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Pentachlorophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Phenacetin	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
Phenanthrene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Phenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Phorate	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Pronamide	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
Safrole	ND		220		ug/L		06/18/19 15:26	06/26/19 01:02	1
2-sec-Butyl-4,6-dinitrophenol	ND		31		ug/L		06/18/19 15:26	06/26/19 01:02	1
1,2,4,5-Tetrachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,3,4,6-Tetrachlorophenol	ND		88		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4,5-Trichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
2,4,6-Trichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1
1,3,5-Trinitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*46 - 124*	*06/18/19 15:26*	*06/26/19 01:02*	*1*
2-Fluorophenol	*77*		*13 - 113*	*06/18/19 15:26*	*06/26/19 01:02*	*1*
Nitrobenzene-d5	*94*		*36 - 126*	*06/18/19 15:26*	*06/26/19 01:02*	*1*
Phenol-d5	*93*		*17 - 127*	*06/18/19 15:26*	*06/26/19 01:02*	*1*
Terphenyl-d14	*132*		*44 - 149*	*06/18/19 15:26*	*06/26/19 01:02*	*1*
2,4,6-Tribromophenol	*114*		*26 - 150*	*06/18/19 15:26*	*06/26/19 01:02*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 19:47	1
1,2-Dibromoethane	ND		0.048		ug/L		06/14/19 13:18	06/14/19 19:47	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.035		ug/L		07/10/19 14:27	07/15/19 17:29	1
4,4'-DDE	ND		0.035		ug/L		07/10/19 14:27	07/15/19 17:29	1
BHC-alpha	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
BHC-beta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
Chlordane	ND		0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1
BHC-delta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
Endosulfan I	ND		0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1
Endosulfan II	ND		0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1
Endosulfan sulfate	ND		0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-14A

Date Collected: 06/11/19 11:40
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-35

Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.035		ug/L		07/10/19 14:27	07/15/19 17:29	1
Chlorobenzilate	ND		1.8		ug/L		07/10/19 14:27	07/15/19 17:29	1
Heptachlor epoxide	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
Isodrin	ND		0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1
Methoxychlor	ND	*	0.088		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1016	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1221	ND		0.35		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1232	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1242	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1248	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1254	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aroclor 1260	ND		0.18		ug/L		07/10/19 14:27	07/15/19 17:29	1
Toxaphene	ND		0.53		ug/L		07/10/19 14:27	07/15/19 17:29	1
4,4'-DDT	ND		0.035		ug/L		07/10/19 14:27	07/15/19 17:29	1
Aldrin	**0.058**	**p**	0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
Dieldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
Endrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 17:29	1
BHC-gamma	ND		0.0088		ug/L		07/10/19 14:27	07/15/19 17:29	1
Heptachlor	ND		0.0088		ug/L		07/10/19 14:27	07/15/19 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*10 - 130*	*07/10/19 14:27*	*07/15/19 17:29*	*1*
Tetrachloro-m-xylene	*93*		*39 - 130*	*07/10/19 14:27*	*07/15/19 17:29*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:44	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/26/19 22:44	1
2,4,5-TP	ND		9.8		ug/L		06/14/19 09:44	06/26/19 22:44	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.98		ug/L		06/14/19 09:44	06/26/19 22:44	1
Pentachlorophenol	ND		0.98		ug/L		06/14/19 09:44	06/26/19 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*101*		*45 - 130*	*06/14/19 09:44*	*06/26/19 22:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.81		mg/L			06/17/19 16:55	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 16:15	1
Acetonitrile	ND		200		ug/L			06/20/19 16:15	1
Acrolein	ND		50		ug/L			06/20/19 16:15	1
Acrylonitrile	ND		50		ug/L			06/20/19 16:15	1
Benzene	ND		2.0		ug/L			06/20/19 16:15	1
Bromochloromethane	ND		10		ug/L			06/20/19 16:15	1
Bromodichloromethane	ND		10		ug/L			06/20/19 16:15	1
Bromoform	ND		10		ug/L			06/20/19 16:15	1
Bromomethane	ND		10		ug/L			06/20/19 16:15	1
2-Butanone	ND		100		ug/L			06/20/19 16:15	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 16:15	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 16:15	1
Chlorobenzene	ND		10		ug/L			06/20/19 16:15	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 16:15	1
Chloroethane	ND		2.0		ug/L			06/20/19 16:15	1
Chloroform	ND		2.0		ug/L			06/20/19 16:15	1
Chloromethane	ND		10		ug/L			06/20/19 16:15	1
Allyl chloride	ND		100		ug/L			06/20/19 16:15	1
Dibromochloromethane	ND		10		ug/L			06/20/19 16:15	1
Dibromomethane	ND		10		ug/L			06/20/19 16:15	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 16:15	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 16:15	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 16:15	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 16:15	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 16:15	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 16:15	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 16:15	1
cis-1,2-Dichloroethene	**4.4**		2.0		ug/L			06/20/19 16:15	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 16:15	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 16:15	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 16:15	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 16:15	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 16:15	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 16:15	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:15	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:15	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 16:15	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 16:15	1
2-Hexanone	ND		50		ug/L			06/20/19 16:15	1
Iodomethane	ND		100		ug/L			06/20/19 16:15	1
Isobutanol	ND		200		ug/L			06/20/19 16:15	1
Methacrylonitrile	ND		100		ug/L			06/20/19 16:15	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 16:15	1
Methyl methacrylate	ND		10		ug/L			06/20/19 16:15	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 16:15	1
Naphthalene	ND		10		ug/L			06/20/19 16:15	1
Propionitrile	ND		75		ug/L			06/20/19 16:15	1
Styrene	ND		10		ug/L			06/20/19 16:15	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:15	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 16:15	1
Toluene	ND		2.0		ug/L			06/20/19 16:15	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 16:15	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 16:15	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 16:15	1
Trichloroethene	ND		2.0		ug/L			06/20/19 16:15	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 16:15	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 16:15	1
Vinyl acetate	ND		100		ug/L			06/20/19 16:15	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 16:15	1
Xylenes	ND		5.0		ug/L			06/20/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/20/19 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 16:15*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*06/20/19 16:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/20/19 16:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Acenaphthylene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Acetophenone	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
2-Acetylaminofluorene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
4-Aminobiphenyl	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
1,4-Benzenediamine	ND		8700		ug/L		06/18/19 15:26	06/28/19 19:59	1
Benzo[a]anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Benzo[a]pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Benzo[b]fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Benzo[g,h,i]perylene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Benzo[k]fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Benzyl alcohol	ND		87		ug/L		06/18/19 15:26	06/26/19 19:46	1
Bis(2-chloroethoxy)methane	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Bis(2-chloroethyl)ether	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Bis(2-ethylhexyl) phthalate	ND		26		ug/L		06/18/19 15:26	06/26/19 19:46	1
4-Bromophenyl phenyl ether	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Butyl benzyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2-Chloronaphthalene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2-Chlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
4-Chlorophenyl phenyl ether	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Chrysene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Diallate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Dibenz(a,h)anthracene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Dibenzofuran	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
3,3'-Dichlorobenzidine	ND	*	260		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4-Dichlorophenol	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
2,6-Dichlorophenol	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Diethyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
7,12-Dimethylbenz(a)anthracene	ND	*	220		ug/L		06/18/19 15:26	06/26/19 19:46	1
3,3'-Dimethylbenzidine	ND	*	220		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4-Dimethylphenol	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Dimethyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Di-n-butyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
4,6-Dinitro-o-cresol	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4-Dinitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4-Dinitrotoluene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,6-Dinitrotoluene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Di-n-octyl phthalate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Di-n-propylnitrosamine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Disulfoton	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Ethyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Famphur	ND	*	43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Fluoranthene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Fluorene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Hexachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Hexachlorobutadiene	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Hexachlorocyclopentadiene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Hexachloroethane	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Hexachloropropene	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Indeno[1,2,3-cd]pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Isophorone	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Isosafrole	ND	*	220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Kepone	ND		87		ug/L		06/18/19 15:26	06/26/19 19:46	1
m-Dinitrobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Methapyrilene	ND		8700		ug/L		06/18/19 15:26	06/26/19 19:46	1
3-Methylcholanthrene	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Methyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
2-Methylnaphthalene	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
Methyl parathion	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
m & p - Cresol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
1,4-Naphthoquinone	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
1-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 19:59	1
2-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 19:59	1
2-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
3-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Nitroaniline, p-	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Nitrobenzene	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
5-Nitro-o-toluidine	ND		87		ug/L		06/18/19 15:26	06/26/19 19:46	1
2-Nitrophenol	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
4-Nitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
N-Nitrosodiethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
N-Nitrosodimethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
N-Nitrosodi-n-butylamine	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
N-Nitrosodiphenylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
N-Nitrosomethylethylamine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
N-Nitrosopiperidine	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1

Client Sample ID: GWC-24
Date Collected: 06/11/19 14:55
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-36
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		87		ug/L		06/18/19 15:26	06/28/19 19:59	1
o-Cresol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
o,o',o''-Triethylphosphorothioate	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
o-Toluidine	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,2'-oxybis[1-chloropropane]	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Parathion	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
p-Chloroaniline	ND		87		ug/L		06/18/19 15:26	06/28/19 19:59	1
p-Chloro-m-cresol	ND		43		ug/L		06/18/19 15:26	06/28/19 19:59	1
p-Dimethylamino azobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Pentachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Pentachloronitrobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Pentachlorophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Phenacetin	ND		220		ug/L		06/18/19 15:26	06/26/19 19:46	1
Phenanthrene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Phenol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Phorate	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Pronamide	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Pyrene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
Safrole	ND		220		ug/L		06/18/19 15:26	06/28/19 19:59	1
2-sec-Butyl-4,6-dinitrophenol	ND		30		ug/L		06/18/19 15:26	06/26/19 19:46	1
1,2,4,5-Tetrachlorobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,3,4,6-Tetrachlorophenol	ND		87		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4,5-Trichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
2,4,6-Trichlorophenol	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1
1,3,5-Trinitrobenzene	ND		43		ug/L		06/18/19 15:26	06/26/19 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*46 - 124*	*06/18/19 15:26*	*06/28/19 19:59*	*1*
2-Fluorophenol	*41*		*13 - 113*	*06/18/19 15:26*	*06/28/19 19:59*	*1*
Nitrobenzene-d5	*71*		*36 - 126*	*06/18/19 15:26*	*06/28/19 19:59*	*1*
Phenol-d5	*60*		*17 - 127*	*06/18/19 15:26*	*06/28/19 19:59*	*1*
Terphenyl-d14	*48*		*44 - 149*	*06/18/19 15:26*	*06/28/19 19:59*	*1*
2,4,6-Tribromophenol	*69*		*26 - 150*	*06/18/19 15:26*	*06/28/19 19:59*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 16:48	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 16:48	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.038		ug/L		07/10/19 14:27	07/15/19 17:45	1
4,4'-DDE	ND		0.038		ug/L		07/10/19 14:27	07/15/19 17:45	1
BHC-alpha	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
BHC-beta	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
Chlordane	ND		0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1
BHC-delta	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
Endosulfan I	ND		0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1
Endosulfan II	ND		0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1
Endosulfan sulfate	ND		0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.038		ug/L		07/10/19 14:27	07/15/19 17:45	1
Chlorobenzilate	ND		1.9		ug/L		07/10/19 14:27	07/15/19 17:45	1
Heptachlor epoxide	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
Isodrin	ND		0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1
Methoxychlor	ND	*	0.095		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1016	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1221	ND		0.38		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1232	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1242	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1248	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1254	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aroclor 1260	ND		0.19		ug/L		07/10/19 14:27	07/15/19 17:45	1
Toxaphene	ND		0.57		ug/L		07/10/19 14:27	07/15/19 17:45	1
4,4'-DDT	ND		0.038		ug/L		07/10/19 14:27	07/15/19 17:45	1
Aldrin	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
Dieldrin	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
Endrin	ND		0.019		ug/L		07/10/19 14:27	07/15/19 17:45	1
BHC-gamma	ND		0.0095		ug/L		07/10/19 14:27	07/15/19 17:45	1
Heptachlor	ND		0.0095		ug/L		07/10/19 14:27	07/15/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*10 - 130*	*07/10/19 14:27*	*07/15/19 17:45*	*1*
Tetrachloro-m-xylene	*71*		*39 - 130*	*07/10/19 14:27*	*07/15/19 17:45*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		5.0		ug/L		06/14/19 09:44	06/26/19 23:04	1
2,4,5-T	ND		5.0		ug/L		06/14/19 09:44	06/26/19 23:04	1
2,4,5-TP	ND		10		ug/L		06/14/19 09:44	06/26/19 23:04	1
2-sec-Butyl-4,6-dinitrophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:04	1
Pentachlorophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*82*		*45 - 130*	*06/14/19 09:44*	*06/26/19 23:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**1.4**		0.85		mg/L			06/17/19 16:59	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-37

Date Collected: 06/12/19 09:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Barium	**0.17**		0.020		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Cobalt	**0.33**		0.040		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Nickel	**0.021**		0.020		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:13	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:38	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-38

Date Collected: 06/12/19 09:20
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Barium	**0.097**		0.020		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:09	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:42	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-39

Date Collected: 06/12/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Barium	**0.23**		0.020		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Nickel	**0.024**		0.020		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:33	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:46	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-40

Date Collected: 06/10/19 13:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 04:24	1
Acetonitrile	ND		200		ug/L			06/20/19 04:24	1
Acrolein	ND		50		ug/L			06/20/19 04:24	1
Acrylonitrile	ND		50		ug/L			06/20/19 04:24	1
Benzene	ND		2.0		ug/L			06/20/19 04:24	1
Bromochloromethane	ND		10		ug/L			06/20/19 04:24	1
Bromodichloromethane	ND		10		ug/L			06/20/19 04:24	1
Bromoform	ND		10		ug/L			06/20/19 04:24	1
Bromomethane	ND		10		ug/L			06/20/19 04:24	1
2-Butanone	ND		100		ug/L			06/20/19 04:24	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 04:24	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 04:24	1
Chlorobenzene	ND		10		ug/L			06/20/19 04:24	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 04:24	1
Chloroethane	ND		2.0		ug/L			06/20/19 04:24	1
Chloroform	ND		2.0		ug/L			06/20/19 04:24	1
Chloromethane	ND		10		ug/L			06/20/19 04:24	1
Allyl chloride	ND		100		ug/L			06/20/19 04:24	1
Dibromochloromethane	ND		10		ug/L			06/20/19 04:24	1
Dibromomethane	ND		10		ug/L			06/20/19 04:24	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 04:24	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 04:24	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 04:24	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 04:24	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 04:24	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 04:24	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 04:24	1
cis-1,2-Dichloroethene	**5.2**		2.0		ug/L			06/20/19 04:24	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 04:24	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 04:24	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 04:24	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 04:24	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 04:24	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 04:24	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 04:24	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 04:24	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 04:24	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 04:24	1
2-Hexanone	ND		50		ug/L			06/20/19 04:24	1
Iodomethane	ND		100		ug/L			06/20/19 04:24	1
Isobutanol	ND		200		ug/L			06/20/19 04:24	1
Methacrylonitrile	ND		100		ug/L			06/20/19 04:24	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 04:24	1
Methyl methacrylate	ND		10		ug/L			06/20/19 04:24	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 04:24	1
Naphthalene	ND		10		ug/L			06/20/19 04:24	1
Propionitrile	ND		75		ug/L			06/20/19 04:24	1
Styrene	ND		10		ug/L			06/20/19 04:24	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 04:24	1

Client Sample ID: PH1-GWA-1 **Lab Sample ID: 680-170257-40**
Date Collected: 06/10/19 13:30 **Matrix: Water**
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 04:24	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 04:24	1
Toluene	ND		2.0		ug/L			06/20/19 04:24	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 04:24	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 04:24	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 04:24	1
Trichloroethene	ND		2.0		ug/L			06/20/19 04:24	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 04:24	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 04:24	1
Vinyl acetate	ND		100		ug/L			06/20/19 04:24	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 04:24	1
Xylenes	ND		5.0		ug/L			06/20/19 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/19 04:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*06/20/19 04:24*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 04:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/20/19 04:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Acenaphthylene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Acetophenone	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Acetylaminofluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
4-Aminobiphenyl	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
1,4-Benzenediamine	ND		7400		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzo[a]anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzo[a]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzo[b]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzo[g,h,i]perylene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzo[k]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Benzyl alcohol	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
Bis(2-chloroethoxy)methane	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Bis(2-chloroethyl)ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Bis(2-ethylhexyl) phthalate	ND		22		ug/L		06/17/19 09:48	06/28/19 21:03	1
4-Bromophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Butyl benzyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Chloronaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Chlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
4-Chlorophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Chrysene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Diallate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Dibenz(a,h)anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Dibenzofuran	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
3,3'-Dichlorobenzidine	ND		220		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,6-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Diethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-40
Date Collected: 06/10/19 13:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
7,12-Dimethylbenz(a)anthracene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
3,3'-Dimethylbenzidine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4-Dimethylphenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Dimethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Di-n-butyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
4,6-Dinitro-o-cresol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4-Dinitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,6-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Di-n-octyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Di-n-propylnitrosamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Disulfoton	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Ethyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Famphur	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Fluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Hexachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Hexachlorobutadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Hexachlorocyclopentadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Hexachloroethane	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Hexachloropropene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Indeno[1,2,3-cd]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Isophorone	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Isosafrole	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Kepone	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
m-Dinitrobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Methapyrilene	ND		7400		ug/L		06/17/19 09:48	06/28/19 21:03	1
3-Methylcholanthrene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Methyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Methylnaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Methyl parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
m & p - Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
1,4-Naphthoquinone	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
1-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
3-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Nitroaniline, p-	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Nitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
5-Nitro-o-toluidine	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-Nitrophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
4-Nitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosodiethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosodimethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosodi-n-butylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosodiphenylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosomethylethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
N-Nitrosopiperidine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-40
Date Collected: 06/10/19 13:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
o-Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
o,o',o''-Triethylphosphorothioate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
o-Toluidine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,2'-oxybis[1-chloropropane]	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
p-Chloroaniline	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
p-Chloro-m-cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
p-Dimethylamino azobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Pentachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Pentachloronitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Pentachlorophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Phenacetin	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
Phenanthrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Phenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Phorate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Pronamide	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
Safrole	ND		190		ug/L		06/17/19 09:48	06/28/19 21:03	1
2-sec-Butyl-4,6-dinitrophenol	ND		26		ug/L		06/17/19 09:48	06/28/19 21:03	1
1,2,4,5-Tetrachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,3,4,6-Tetrachlorophenol	ND		74		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4,5-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
2,4,6-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1
1,3,5-Trinitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*46 - 124*	*06/17/19 09:48*	*06/28/19 21:03*	*1*
2-Fluorophenol	*50*		*13 - 113*	*06/17/19 09:48*	*06/28/19 21:03*	*1*
Nitrobenzene-d5	*76*		*36 - 126*	*06/17/19 09:48*	*06/28/19 21:03*	*1*
Phenol-d5	*71*		*17 - 127*	*06/17/19 09:48*	*06/28/19 21:03*	*1*
Terphenyl-d14	*92*		*44 - 149*	*06/17/19 09:48*	*06/28/19 21:03*	*1*
2,4,6-Tribromophenol	*85*		*26 - 150*	*06/17/19 09:48*	*06/28/19 21:03*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 18:07	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 18:07	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.036		ug/L		07/10/19 14:27	07/15/19 18:01	1
4,4'-DDE	ND		0.036		ug/L		07/10/19 14:27	07/15/19 18:01	1
BHC-alpha	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
BHC-beta	**0.032**	**p**	0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
Chlordane	ND		0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1
BHC-delta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
Endosulfan I	ND		0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1
Endosulfan II	ND		0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1
Endosulfan sulfate	ND		0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1

Client Sample ID: PH1-GWA-1 Lab Sample ID: 680-170257-40

Date Collected: 06/10/19 13:30 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.036		ug/L		07/10/19 14:27	07/15/19 18:01	1
Chlorobenzilate	ND		1.8		ug/L		07/10/19 14:27	07/15/19 18:01	1
Heptachlor epoxide	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
Isodrin	ND		0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1
Methoxychlor	ND	*	0.091		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1016	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1221	ND		0.36		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1232	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1242	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1248	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1254	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aroclor 1260	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:01	1
Toxaphene	ND		0.54		ug/L		07/10/19 14:27	07/15/19 18:01	1
4,4'-DDT	ND		0.036		ug/L		07/10/19 14:27	07/15/19 18:01	1
Aldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
Dieldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
Endrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:01	1
BHC-gamma	ND		0.0091		ug/L		07/10/19 14:27	07/15/19 18:01	1
Heptachlor	ND		0.0091		ug/L		07/10/19 14:27	07/15/19 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*10 - 130*	*07/10/19 14:27*	*07/15/19 18:01*	*1*
Tetrachloro-m-xylene	*73*		*39 - 130*	*07/10/19 14:27*	*07/15/19 18:01*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		5.2		ug/L		06/14/19 09:44	06/26/19 23:24	1
2,4,5-T	ND		5.2		ug/L		06/14/19 09:44	06/26/19 23:24	1
2,4,5-TP	ND		10		ug/L		06/14/19 09:44	06/26/19 23:24	1
2-sec-Butyl-4,6-dinitrophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:24	1
Pentachlorophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*45 - 130*	*06/14/19 09:44*	*06/26/19 23:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.86		mg/L			06/17/19 17:02	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41

Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 04:01	1
Acetonitrile	ND		200		ug/L			06/20/19 04:01	1
Acrolein	ND		50		ug/L			06/20/19 04:01	1
Acrylonitrile	ND		50		ug/L			06/20/19 04:01	1
Benzene	ND		2.0		ug/L			06/20/19 04:01	1
Bromochloromethane	ND		10		ug/L			06/20/19 04:01	1
Bromodichloromethane	ND		10		ug/L			06/20/19 04:01	1
Bromoform	ND		10		ug/L			06/20/19 04:01	1
Bromomethane	ND		10		ug/L			06/20/19 04:01	1
2-Butanone	ND		100		ug/L			06/20/19 04:01	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 04:01	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 04:01	1
Chlorobenzene	ND		10		ug/L			06/20/19 04:01	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 04:01	1
Chloroethane	ND		2.0		ug/L			06/20/19 04:01	1
Chloroform	ND		2.0		ug/L			06/20/19 04:01	1
Chloromethane	ND		10		ug/L			06/20/19 04:01	1
Allyl chloride	ND		100		ug/L			06/20/19 04:01	1
Dibromochloromethane	ND		10		ug/L			06/20/19 04:01	1
Dibromomethane	ND		10		ug/L			06/20/19 04:01	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 04:01	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 04:01	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 04:01	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 04:01	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 04:01	1
1,1-Dichloroethane	**3.0**		2.0		ug/L			06/20/19 04:01	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 04:01	1
cis-1,2-Dichloroethene	**5.1**		2.0		ug/L			06/20/19 04:01	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 04:01	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 04:01	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 04:01	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 04:01	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 04:01	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 04:01	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 04:01	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 04:01	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 04:01	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 04:01	1
2-Hexanone	ND		50		ug/L			06/20/19 04:01	1
Iodomethane	ND		100		ug/L			06/20/19 04:01	1
Isobutanol	ND		200		ug/L			06/20/19 04:01	1
Methacrylonitrile	ND		100		ug/L			06/20/19 04:01	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 04:01	1
Methyl methacrylate	ND		10		ug/L			06/20/19 04:01	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 04:01	1
Naphthalene	ND		10		ug/L			06/20/19 04:01	1
Propionitrile	ND		75		ug/L			06/20/19 04:01	1
Styrene	ND		10		ug/L			06/20/19 04:01	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 04:01	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41
Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 04:01	1
Tetrachloroethene	**4.2**		2.0		ug/L			06/20/19 04:01	1
Toluene	ND		2.0		ug/L			06/20/19 04:01	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 04:01	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 04:01	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 04:01	1
Trichloroethene	**2.0**		2.0		ug/L			06/20/19 04:01	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 04:01	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 04:01	1
Vinyl acetate	ND		100		ug/L			06/20/19 04:01	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 04:01	1
Xylenes	ND		5.0		ug/L			06/20/19 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/20/19 04:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*06/20/19 04:01*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*06/20/19 04:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 04:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Acenaphthylene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Acetophenone	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Acetylaminofluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
4-Aminobiphenyl	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
1,4-Benzenediamine	ND		7500		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzo[a]anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzo[a]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzo[b]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzo[g,h,i]perylene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzo[k]fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Benzyl alcohol	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
Bis(2-chloroethoxy)methane	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Bis(2-chloroethyl)ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Bis(2-ethylhexyl) phthalate	ND		22		ug/L		06/17/19 09:48	06/28/19 21:24	1
4-Bromophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Butyl benzyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Chloronaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Chlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
4-Chlorophenyl phenyl ether	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Chrysene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Diallate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Dibenz(a,h)anthracene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Dibenzofuran	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
3,3'-Dichlorobenzidine	ND		220		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,6-Dichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Diethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41
Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
7,12-Dimethylbenz(a)anthracene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
3,3'-Dimethylbenzidine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4-Dimethylphenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Dimethyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Di-n-butyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
4,6-Dinitro-o-cresol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4-Dinitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,6-Dinitrotoluene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Di-n-octyl phthalate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Di-n-propylnitrosamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Disulfoton	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Ethyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Famphur	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Fluoranthene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Fluorene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Hexachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Hexachlorobutadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Hexachlorocyclopentadiene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Hexachloroethane	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Hexachloropropene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Indeno[1,2,3-cd]pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Isophorone	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Isosafrole	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Kepone	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
m-Dinitrobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Methapyrilene	ND		7500		ug/L		06/17/19 09:48	06/28/19 21:24	1
3-Methylcholanthrene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Methyl methanesulfonate	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Methylnaphthalene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Methyl parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
m & p - Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
1,4-Naphthoquinone	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
1-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Naphthylamine	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
3-Nitroaniline	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Nitroaniline, p-	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Nitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
5-Nitro-o-toluidine	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-Nitrophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
4-Nitrophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosodiethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosodimethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosodi-n-butylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosodiphenylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosomethylethylamine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
N-Nitrosopiperidine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1

Client Sample ID: PH1-GWC-2 **Lab Sample ID: 680-170257-41**
Date Collected: 06/10/19 15:30 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
o-Cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
o,o',o''-Triethylphosphorothioate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
o-Toluidine	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,2'-oxybis[1-chloropropane]	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Parathion	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
p-Chloroaniline	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
p-Chloro-m-cresol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
p-Dimethylamino azobenzene	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Pentachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Pentachloronitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Pentachlorophenol	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Phenacetin	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
Phenanthrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Phenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Phorate	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Pronamide	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Pyrene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
Safrole	ND		190		ug/L		06/17/19 09:48	06/28/19 21:24	1
2-sec-Butyl-4,6-dinitrophenol	ND		26		ug/L		06/17/19 09:48	06/28/19 21:24	1
1,2,4,5-Tetrachlorobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,3,4,6-Tetrachlorophenol	ND		75		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4,5-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
2,4,6-Trichlorophenol	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1
1,3,5-Trinitrobenzene	ND		37		ug/L		06/17/19 09:48	06/28/19 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*46 - 124*	*06/17/19 09:48*	*06/28/19 21:24*	*1*
2-Fluorophenol	*45*		*13 - 113*	*06/17/19 09:48*	*06/28/19 21:24*	*1*
Nitrobenzene-d5	*83*		*36 - 126*	*06/17/19 09:48*	*06/28/19 21:24*	*1*
Phenol-d5	*73*		*17 - 127*	*06/17/19 09:48*	*06/28/19 21:24*	*1*
Terphenyl-d14	*105*		*44 - 149*	*06/17/19 09:48*	*06/28/19 21:24*	*1*
2,4,6-Tribromophenol	*82*		*26 - 150*	*06/17/19 09:48*	*06/28/19 21:24*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.18		ug/L		06/14/19 13:18	06/14/19 18:17	1
1,2-Dibromoethane	ND		0.046		ug/L		06/14/19 13:18	06/14/19 18:17	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:17	1
4,4'-DDE	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:17	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
Chlordane	ND		0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
Endosulfan I	ND		0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1
Endosulfan II	ND		0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1
Endosulfan sulfate	ND		0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1

Client Sample ID: PH1-GWC-2 Lab Sample ID: 680-170257-41

Date Collected: 06/10/19 15:30 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:17	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 18:17	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
Isodrin	ND		0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1
Methoxychlor	ND	*	0.087		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1221	ND		0.35		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:17	1
Toxaphene	ND		0.52		ug/L		07/10/19 14:27	07/15/19 18:17	1
4,4'-DDT	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:17	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:17	1
BHC-gamma	ND		0.0087		ug/L		07/10/19 14:27	07/15/19 18:17	1
Heptachlor	ND		0.0087		ug/L		07/10/19 14:27	07/15/19 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*10 - 130*	*07/10/19 14:27*	*07/15/19 18:17*	*1*
Tetrachloro-m-xylene	*80*		*39 - 130*	*07/10/19 14:27*	*07/15/19 18:17*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		5.0		ug/L		06/14/19 09:44	06/26/19 23:43	1
2,4,5-T	ND		5.0		ug/L		06/14/19 09:44	06/26/19 23:43	1
2,4,5-TP	ND		10		ug/L		06/14/19 09:44	06/26/19 23:43	1
2-sec-Butyl-4,6-dinitrophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:43	1
Pentachlorophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*88*		*45 - 130*	*06/14/19 09:44*	*06/26/19 23:43*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Barium	**0.039**		0.020		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Chromium	**0.069**		0.010		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Nickel	**0.051**		0.020		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/18/19 00:59	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41
Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Tin	ND		0.050		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Vanadium	**0.042**		0.020		mg/L		06/15/19 10:26	06/18/19 00:59	1
Total Zinc	**0.026**		0.020		mg/L		06/15/19 10:26	06/18/19 00:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/17/19 12:08	06/19/19 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND	H	0.020		mg/L		06/21/19 15:23	06/26/19 13:46	1
Sulfide	**1.8**		0.88		mg/L			06/17/19 17:05	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-42

Date Collected: 06/11/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Barium	**0.024**		0.020		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Cobalt	**0.091**		0.040		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:44	1
Total Zinc	**0.034**		0.020		mg/L		06/13/19 15:02	06/17/19 17:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:21	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1 (GWC-15)
Lab Sample ID: 680-170257-43

Date Collected: 06/11/19 12:40
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 16:38	1
Acetonitrile	ND		200		ug/L			06/20/19 16:38	1
Acrolein	ND		50		ug/L			06/20/19 16:38	1
Acrylonitrile	ND		50		ug/L			06/20/19 16:38	1
Benzene	**3.1**		2.0		ug/L			06/20/19 16:38	1
Bromochloromethane	ND		10		ug/L			06/20/19 16:38	1
Bromodichloromethane	ND		10		ug/L			06/20/19 16:38	1
Bromoform	ND		10		ug/L			06/20/19 16:38	1
Bromomethane	ND		10		ug/L			06/20/19 16:38	1
2-Butanone	ND		100		ug/L			06/20/19 16:38	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 16:38	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 16:38	1
Chlorobenzene	ND		10		ug/L			06/20/19 16:38	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 16:38	1
Chloroethane	ND		2.0		ug/L			06/20/19 16:38	1
Chloroform	ND		2.0		ug/L			06/20/19 16:38	1
Chloromethane	ND		10		ug/L			06/20/19 16:38	1
Allyl chloride	ND		100		ug/L			06/20/19 16:38	1
Dibromochloromethane	ND		10		ug/L			06/20/19 16:38	1
Dibromomethane	ND		10		ug/L			06/20/19 16:38	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 16:38	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 16:38	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 16:38	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 16:38	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 16:38	1
1,1-Dichloroethane	**38**		2.0		ug/L			06/20/19 16:38	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 16:38	1
cis-1,2-Dichloroethene	**97**		2.0		ug/L			06/20/19 16:38	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 16:38	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 16:38	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 16:38	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 16:38	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 16:38	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 16:38	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:38	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 16:38	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 16:38	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 16:38	1
2-Hexanone	ND		50		ug/L			06/20/19 16:38	1
Iodomethane	ND		100		ug/L			06/20/19 16:38	1
Isobutanol	ND		200		ug/L			06/20/19 16:38	1
Methacrylonitrile	ND		100		ug/L			06/20/19 16:38	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 16:38	1
Methyl methacrylate	ND		10		ug/L			06/20/19 16:38	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 16:38	1
Naphthalene	ND		10		ug/L			06/20/19 16:38	1
Propionitrile	ND		75		ug/L			06/20/19 16:38	1
Styrene	ND		10		ug/L			06/20/19 16:38	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:38	1

Client Sample ID: AMW-1 (GWC-15) Lab Sample ID: 680-170257-43

Date Collected: 06/11/19 12:40 **Matrix: Water**
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 16:38	1
Tetrachloroethene	**50**		2.0		ug/L			06/20/19 16:38	1
Toluene	ND		2.0		ug/L			06/20/19 16:38	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 16:38	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 16:38	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 16:38	1
Trichloroethene	**70**		2.0		ug/L			06/20/19 16:38	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 16:38	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 16:38	1
Vinyl acetate	ND		100		ug/L			06/20/19 16:38	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 16:38	1
Xylenes	ND		5.0		ug/L			06/20/19 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/20/19 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 16:38*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 16:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/20/19 16:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Acenaphthylene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Acetophenone	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-Acetylaminofluorene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
4-Aminobiphenyl	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
1,4-Benzenediamine	ND		8700		ug/L		06/18/19 15:26	06/28/19 20:20	1
Benzo[a]anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Benzo[a]pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Benzo[b]fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Benzo[g,h,i]perylene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Benzo[k]fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Benzyl alcohol	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
Bis(2-chloroethoxy)methane	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Bis(2-chloroethyl)ether	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Bis(2-ethylhexyl) phthalate	ND		26		ug/L		06/18/19 15:26	06/26/19 20:10	1
4-Bromophenyl phenyl ether	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Butyl benzyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-Chloronaphthalene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-Chlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
4-Chlorophenyl phenyl ether	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Chrysene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Diallate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Dibenz(a,h)anthracene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Dibenzofuran	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
3,3'-Dichlorobenzidine	ND	*	260		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4-Dichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,6-Dichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Diethyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1 (GWC-15)
Lab Sample ID: 680-170257-43
Date Collected: 06/11/19 12:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
7,12-Dimethylbenz(a)anthracene	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:10	1
3,3'-Dimethylbenzidine	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4-Dimethylphenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Dimethyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Di-n-butyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
4,6-Dinitro-o-cresol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4-Dinitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4-Dinitrotoluene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,6-Dinitrotoluene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Di-n-octyl phthalate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Di-n-propylnitrosamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Disulfoton	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Ethyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Famphur	ND	*	44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Fluoranthene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Fluorene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Hexachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Hexachlorobutadiene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Hexachlorocyclopentadiene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Hexachloroethane	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Hexachloropropene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Indeno[1,2,3-cd]pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Isophorone	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Isosafrole	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Kepone	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
m-Dinitrobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Methapyrilene	ND		8700		ug/L		06/18/19 15:26	06/26/19 20:10	1
3-Methylcholanthrene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Methyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-Methylnaphthalene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Methyl parathion	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
m & p - Cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
1,4-Naphthoquinone	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
1-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 20:20	1
2-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 20:20	1
2-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
3-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Nitroaniline, p-	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Nitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
5-Nitro-o-toluidine	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-Nitrophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
4-Nitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosodiethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosodimethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosodi-n-butylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosodiphenylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosomethylethylamine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
N-Nitrosopiperidine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1

Client Sample ID: AMW-1 (GWC-15) **Lab Sample ID: 680-170257-43**
Date Collected: 06/11/19 12:40 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
o-Cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
o,o',o''-Triethylphosphorothioate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
o-Toluidine	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,2'-oxybis[1-chloropropane]	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Parathion	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
p-Chloroaniline	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
p-Chloro-m-cresol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
p-Dimethylamino azobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Pentachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Pentachloronitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Pentachlorophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Phenacetin	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
Phenanthrene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Phenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Phorate	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Pronamide	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Pyrene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
Safrole	ND		220		ug/L		06/18/19 15:26	06/26/19 20:10	1
2-sec-Butyl-4,6-dinitrophenol	ND		30		ug/L		06/18/19 15:26	06/26/19 20:10	1
1,2,4,5-Tetrachlorobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,3,4,6-Tetrachlorophenol	ND		87		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4,5-Trichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
2,4,6-Trichlorophenol	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1
1,3,5-Trinitrobenzene	ND		44		ug/L		06/18/19 15:26	06/26/19 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*46 - 124*	*06/18/19 15:26*	*06/26/19 20:10*	*1*
2-Fluorophenol	*54*		*13 - 113*	*06/18/19 15:26*	*06/26/19 20:10*	*1*
Nitrobenzene-d5	*70*		*36 - 126*	*06/18/19 15:26*	*06/26/19 20:10*	*1*
Phenol-d5	*65*		*17 - 127*	*06/18/19 15:26*	*06/26/19 20:10*	*1*
Terphenyl-d14	*94*		*44 - 149*	*06/18/19 15:26*	*06/26/19 20:10*	*1*
2,4,6-Tribromophenol	*105*		*26 - 150*	*06/18/19 15:26*	*06/26/19 20:10*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 19:17	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 19:17	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:33	1
4,4'-DDE	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:33	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
Chlordane	ND		0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
Endosulfan I	ND		0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1
Endosulfan II	ND		0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1
Endosulfan sulfate	ND		0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1

Client Sample ID: AMW-1 (GWC-15) Lab Sample ID: 680-170257-43

Date Collected: 06/11/19 12:40 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:33	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 18:33	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
Isodrin	ND		0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1
Methoxychlor	ND	*	0.086		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1221	ND		0.35		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 18:33	1
Toxaphene	ND		0.52		ug/L		07/10/19 14:27	07/15/19 18:33	1
4,4'-DDT	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:33	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 18:33	1
BHC-gamma	ND		0.0086		ug/L		07/10/19 14:27	07/15/19 18:33	1
Heptachlor	ND		0.0086		ug/L		07/10/19 14:27	07/15/19 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*10 - 130*	*07/10/19 14:27*	*07/15/19 18:33*	*1*
Tetrachloro-m-xylene	*70*		*39 - 130*	*07/10/19 14:27*	*07/15/19 18:33*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/27/19 00:03	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/27/19 00:03	1
2,4,5-TP	ND		9.8		ug/L		06/14/19 09:44	06/27/19 00:03	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.98		ug/L		06/14/19 09:44	06/27/19 00:03	1
Pentachlorophenol	ND		0.98		ug/L		06/14/19 09:44	06/27/19 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*103*		*45 - 130*	*06/14/19 09:44*	*06/27/19 00:03*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Barium	**0.060**		0.020		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:29	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1 (GWC-15)
Lab Sample ID: 680-170257-43
Date Collected: 06/11/19 12:40
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:29	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	**1.3**		0.78		mg/L			06/17/19 17:08	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-2
Lab Sample ID: 680-170257-44

Date Collected: 06/11/19 14:15
Matrix: Water
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 17:01	1
Acetonitrile	ND		200		ug/L			06/20/19 17:01	1
Acrolein	ND		50		ug/L			06/20/19 17:01	1
Acrylonitrile	ND		50		ug/L			06/20/19 17:01	1
Benzene	ND		2.0		ug/L			06/20/19 17:01	1
Bromochloromethane	ND		10		ug/L			06/20/19 17:01	1
Bromodichloromethane	ND		10		ug/L			06/20/19 17:01	1
Bromoform	ND		10		ug/L			06/20/19 17:01	1
Bromomethane	ND		10		ug/L			06/20/19 17:01	1
2-Butanone	ND		100		ug/L			06/20/19 17:01	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 17:01	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 17:01	1
Chlorobenzene	ND		10		ug/L			06/20/19 17:01	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 17:01	1
Chloroethane	ND		2.0		ug/L			06/20/19 17:01	1
Chloroform	ND		2.0		ug/L			06/20/19 17:01	1
Chloromethane	ND		10		ug/L			06/20/19 17:01	1
Allyl chloride	ND		100		ug/L			06/20/19 17:01	1
Dibromochloromethane	ND		10		ug/L			06/20/19 17:01	1
Dibromomethane	ND		10		ug/L			06/20/19 17:01	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 17:01	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 17:01	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 17:01	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 17:01	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 17:01	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 17:01	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 17:01	1
cis-1,2-Dichloroethene	**26**		2.0		ug/L			06/20/19 17:01	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 17:01	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 17:01	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 17:01	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 17:01	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 17:01	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 17:01	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:01	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 17:01	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 17:01	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 17:01	1
2-Hexanone	ND		50		ug/L			06/20/19 17:01	1
Iodomethane	ND		100		ug/L			06/20/19 17:01	1
Isobutanol	ND		200		ug/L			06/20/19 17:01	1
Methacrylonitrile	ND		100		ug/L			06/20/19 17:01	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 17:01	1
Methyl methacrylate	ND		10		ug/L			06/20/19 17:01	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 17:01	1
Naphthalene	ND		10		ug/L			06/20/19 17:01	1
Propionitrile	ND		75		ug/L			06/20/19 17:01	1
Styrene	ND		10		ug/L			06/20/19 17:01	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:01	1

Client Sample ID: PH1-GWA-2 Lab Sample ID: 680-170257-44

Date Collected: 06/11/19 14:15 **Matrix: Water**
Date Received: 06/13/19 07:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 17:01	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 17:01	1
Toluene	ND		2.0		ug/L			06/20/19 17:01	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 17:01	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 17:01	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 17:01	1
Trichloroethene	**2.1**		2.0		ug/L			06/20/19 17:01	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 17:01	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 17:01	1
Vinyl acetate	ND		100		ug/L			06/20/19 17:01	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 17:01	1
Xylenes	ND		5.0		ug/L			06/20/19 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/20/19 17:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/20/19 17:01*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/20/19 17:01*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/20/19 17:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Acenaphthylene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Acetophenone	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-Acetylaminofluorene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
4-Aminobiphenyl	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Anthracene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
1,4-Benzenediamine	ND		8900		ug/L		06/18/19 15:26	06/28/19 20:41	1
Benzo[a]anthracene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Benzo[a]pyrene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Benzo[b]fluoranthene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Benzo[g,h,i]perylene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Benzo[k]fluoranthene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Benzyl alcohol	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
Bis(2-chloroethoxy)methane	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Bis(2-chloroethyl)ether	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Bis(2-ethylhexyl) phthalate	ND		27		ug/L		06/18/19 15:26	06/26/19 20:35	1
4-Bromophenyl phenyl ether	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Butyl benzyl phthalate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-Chloronaphthalene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-Chlorophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
4-Chlorophenyl phenyl ether	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Chrysene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Diallate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Dibenz(a,h)anthracene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Dibenzofuran	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
3,3'-Dichlorobenzidine	ND	*	270		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4-Dichlorophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,6-Dichlorophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Diethyl phthalate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-2
Lab Sample ID: 680-170257-44
Date Collected: 06/11/19 14:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
7,12-Dimethylbenz(a)anthracene	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:35	1
3,3'-Dimethylbenzidine	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4-Dimethylphenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Dimethyl phthalate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Di-n-butyl phthalate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
4,6-Dinitro-o-cresol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4-Dinitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4-Dinitrotoluene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,6-Dinitrotoluene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Di-n-octyl phthalate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Di-n-propylnitrosamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Disulfoton	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Ethyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Famphur	ND	*	45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Fluoranthene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Fluorene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Hexachlorobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Hexachlorobutadiene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Hexachlorocyclopentadiene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Hexachloroethane	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Hexachloropropene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Indeno[1,2,3-cd]pyrene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Isophorone	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Isosafrole	ND	*	220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Kepone	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
m-Dinitrobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Methapyrilene	ND		8900		ug/L		06/18/19 15:26	06/26/19 20:35	1
3-Methylcholanthrene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Methyl methanesulfonate	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-Methylnaphthalene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Methyl parathion	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
m & p - Cresol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
1,4-Naphthoquinone	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
1-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 20:41	1
2-Naphthylamine	ND		220		ug/L		06/18/19 15:26	06/28/19 20:41	1
2-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
3-Nitroaniline	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Nitroaniline, p-	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Nitrobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
5-Nitro-o-toluidine	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-Nitrophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
4-Nitrophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosodiethylamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosodimethylamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosodi-n-butylamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosodiphenylamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosomethylethylamine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
N-Nitrosopiperidine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1

Client Sample ID: PH1-GWA-2 **Lab Sample ID: 680-170257-44**
Date Collected: 06/11/19 14:15 **Matrix: Water**
Date Received: 06/13/19 07:25

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
o-Cresol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
o,o',o''-Triethylphosphorothioate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
o-Toluidine	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,2'-oxybis[1-chloropropane]	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Parathion	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
p-Chloroaniline	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
p-Chloro-m-cresol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
p-Dimethylamino azobenzene	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Pentachlorobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Pentachloronitrobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Pentachlorophenol	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Phenacetin	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
Phenanthrene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Phenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Phorate	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Pronamide	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Pyrene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
Safrole	ND		220		ug/L		06/18/19 15:26	06/26/19 20:35	1
2-sec-Butyl-4,6-dinitrophenol	ND		31		ug/L		06/18/19 15:26	06/26/19 20:35	1
1,2,4,5-Tetrachlorobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,3,4,6-Tetrachlorophenol	ND		89		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4,5-Trichlorophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
2,4,6-Trichlorophenol	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1
1,3,5-Trinitrobenzene	ND		45		ug/L		06/18/19 15:26	06/26/19 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*46 - 124*	*06/18/19 15:26*	*06/26/19 20:35*	*1*
2-Fluorophenol	*61*		*13 - 113*	*06/18/19 15:26*	*06/26/19 20:35*	*1*
Nitrobenzene-d5	*66*		*36 - 126*	*06/18/19 15:26*	*06/26/19 20:35*	*1*
Phenol-d5	*68*		*17 - 127*	*06/18/19 15:26*	*06/26/19 20:35*	*1*
Terphenyl-d14	*92*		*44 - 149*	*06/18/19 15:26*	*06/26/19 20:35*	*1*
2,4,6-Tribromophenol	*104*		*26 - 150*	*06/18/19 15:26*	*06/26/19 20:35*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/14/19 13:18	06/14/19 16:58	1
1,2-Dibromoethane	ND		0.047		ug/L		06/14/19 13:18	06/14/19 16:58	1

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:49	1
4,4'-DDE	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:49	1
BHC-alpha	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
BHC-beta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
Chlordane	ND		0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1
BHC-delta	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
Endosulfan I	ND		0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1
Endosulfan II	ND		0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1
Endosulfan sulfate	ND		0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-2
Lab Sample ID: 680-170257-44
Date Collected: 06/11/19 14:15
Matrix: Water
Date Received: 06/13/19 07:25

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:49	1
Chlorobenzilate	ND		1.8		ug/L		07/10/19 14:27	07/15/19 18:49	1
Heptachlor epoxide	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
Isodrin	ND		0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1
Methoxychlor	ND	*	0.088		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1016	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1221	ND		0.35		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1232	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1242	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1248	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1254	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aroclor 1260	ND		0.18		ug/L		07/10/19 14:27	07/15/19 18:49	1
Toxaphene	ND		0.53		ug/L		07/10/19 14:27	07/15/19 18:49	1
4,4'-DDT	ND		0.035		ug/L		07/10/19 14:27	07/15/19 18:49	1
Aldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
Dieldrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
Endrin	ND		0.018		ug/L		07/10/19 14:27	07/15/19 18:49	1
BHC-gamma	ND		0.0088		ug/L		07/10/19 14:27	07/15/19 18:49	1
Heptachlor	ND		0.0088		ug/L		07/10/19 14:27	07/15/19 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*10 - 130*	*07/10/19 14:27*	*07/15/19 18:49*	*1*
Tetrachloro-m-xylene	*72*		*39 - 130*	*07/10/19 14:27*	*07/15/19 18:49*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.9		ug/L		06/14/19 09:44	06/27/19 00:23	1
2,4,5-T	ND		4.9		ug/L		06/14/19 09:44	06/27/19 00:23	1
2,4,5-TP	ND		9.9		ug/L		06/14/19 09:44	06/27/19 00:23	1
2-sec-Butyl-4,6-dinitrophenol	ND		0.99		ug/L		06/14/19 09:44	06/27/19 00:23	1
Pentachlorophenol	ND		0.99		ug/L		06/14/19 09:44	06/27/19 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*113*		*45 - 130*	*06/14/19 09:44*	*06/27/19 00:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND	H	0.020		mg/L		06/25/19 10:37	06/26/19 14:24	1
Sulfide	**1.7**		0.88		mg/L			06/17/19 17:12	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-3
Lab Sample ID: 680-170257-45
Date Collected: 06/12/19 08:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Barium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Chromium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Nickel	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Vanadium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:51	1
Total Zinc	ND		0.020		mg/L		06/15/19 10:26	06/18/19 00:51	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-2
Lab Sample ID: 680-170257-46
Date Collected: 06/12/19 09:10
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Arsenic	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Barium	**0.023**		0.020		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Beryllium	ND		0.0030		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Cadmium	ND		0.0050		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Chromium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Cobalt	ND		0.040		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Copper	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Lead	ND		0.015		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Nickel	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Selenium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Silver	ND		0.010		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Thallium	ND		0.0020		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Vanadium	ND		0.020		mg/L		06/17/19 13:57	06/22/19 13:25	1
Total Zinc	**0.030**		0.020		mg/L		06/17/19 13:57	06/22/19 13:25	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: PH1-GWB-1
Date Collected: 06/12/19 09:15
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170257-47
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Barium	**0.082**		0.020		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Chromium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Nickel	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Vanadium	ND		0.020		mg/L		06/15/19 10:26	06/18/19 01:06	1
Total Zinc	**0.022**		0.020		mg/L		06/15/19 10:26	06/18/19 01:06	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-2
Lab Sample ID: 680-170257-48

Date Collected: 06/12/19 09:20
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Barium	**0.084**		0.020		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:05	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 17:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:50	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-4
Lab Sample ID: 680-170257-49
Date Collected: 06/12/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Arsenic	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Barium	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Beryllium	ND		0.0030		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Cadmium	ND		0.0050		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Chromium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Cobalt	ND		0.040		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Copper	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Lead	ND		0.015		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Nickel	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Selenium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Silver	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Thallium	ND		0.0020		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Vanadium	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:53	1
Total Zinc	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:53	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-50
Date Collected: 06/12/19 09:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Barium	**0.020**		0.020		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Tin	ND		0.050		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:46	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 16:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:55	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8
Lab Sample ID: 680-170409-1
Date Collected: 06/13/19 10:05
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Barium	**0.030**		0.020		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:02	1
Total Zinc	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:02	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-2
Lab Sample ID: 680-170409-2
Date Collected: 06/13/19 10:20
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Barium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:38	1
Total Zinc	**0.028**		0.020		mg/L		06/19/19 11:09	06/20/19 03:38	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-9

Date Collected: 06/13/19 10:25
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-3

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Barium	**0.080**		0.020		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:11	1
Total Zinc	**0.060**		0.020		mg/L		06/19/19 15:01	06/24/19 19:11	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-11

Date Collected: 06/13/19 10:30
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-4

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Barium	**0.040**		0.020		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:58	1
Total Zinc	**0.034**		0.020		mg/L		06/19/19 11:09	06/20/19 03:58	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-17
Lab Sample ID: 680-170409-5

Date Collected: 06/13/19 10:40
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Barium	**0.043**		0.020		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Tin	ND		0.050		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:50	1
Total Zinc	**0.024**		0.020		mg/L		06/19/19 11:09	06/20/19 03:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:47	06/21/19 15:40	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-14
Lab Sample ID: 680-170409-6
Date Collected: 06/13/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 04:18	1
Acetonitrile	ND		200		ug/L			06/26/19 04:18	1
Acrolein	ND		50		ug/L			06/26/19 04:18	1
Acrylonitrile	ND		50		ug/L			06/26/19 04:18	1
Benzene	ND		2.0		ug/L			06/26/19 04:18	1
Bromochloromethane	ND		10		ug/L			06/26/19 04:18	1
Bromodichloromethane	ND		10		ug/L			06/26/19 04:18	1
Bromoform	ND		10		ug/L			06/26/19 04:18	1
Bromomethane	ND		10		ug/L			06/26/19 04:18	1
2-Butanone	ND		100		ug/L			06/26/19 04:18	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 04:18	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 04:18	1
Chlorobenzene	ND		10		ug/L			06/26/19 04:18	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 04:18	1
Chloroethane	ND		2.0		ug/L			06/26/19 04:18	1
Chloroform	ND		2.0		ug/L			06/26/19 04:18	1
Chloromethane	ND		10		ug/L			06/26/19 04:18	1
Allyl chloride	ND		100		ug/L			06/26/19 04:18	1
Dibromochloromethane	ND		10		ug/L			06/26/19 04:18	1
Dibromomethane	ND		10		ug/L			06/26/19 04:18	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 04:18	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 04:18	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 04:18	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 04:18	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 04:18	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 04:18	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 04:18	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 04:18	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 04:18	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 04:18	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 04:18	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 04:18	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 04:18	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 04:18	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 04:18	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 04:18	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 04:18	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 04:18	1
2-Hexanone	ND		50		ug/L			06/26/19 04:18	1
Iodomethane	ND		100		ug/L			06/26/19 04:18	1
Isobutanol	ND		200		ug/L			06/26/19 04:18	1
Methacrylonitrile	ND		100		ug/L			06/26/19 04:18	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 04:18	1
Methyl methacrylate	ND		10		ug/L			06/26/19 04:18	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 04:18	1
Naphthalene	ND		10		ug/L			06/26/19 04:18	1
Propionitrile	ND		75		ug/L			06/26/19 04:18	1
Styrene	ND		10		ug/L			06/26/19 04:18	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 04:18	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-14
Lab Sample ID: 680-170409-6
Date Collected: 06/13/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 04:18	1
Tetrachloroethene	ND		2.0		ug/L			06/26/19 04:18	1
Toluene	ND		2.0		ug/L			06/26/19 04:18	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 04:18	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 04:18	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 04:18	1
Trichloroethene	ND		2.0		ug/L			06/26/19 04:18	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 04:18	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 04:18	1
Vinyl acetate	ND		100		ug/L			06/26/19 04:18	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 04:18	1
Xylenes	ND		5.0		ug/L			06/26/19 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/26/19 04:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/26/19 04:18*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*06/26/19 04:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/26/19 04:18*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-4
Lab Sample ID: 680-170409-7
Date Collected: 06/13/19 09:45
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Barium	**0.032**		0.020		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:14	1
Total Zinc	**0.020**		0.020		mg/L		06/19/19 15:01	06/24/19 19:14	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-1
Lab Sample ID: 680-170409-8
Date Collected: 06/13/19 09:50
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Barium	**0.050**		0.020		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:54	1
Total Zinc	ND		0.020		mg/L		06/19/19 11:09	06/20/19 03:54	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-1

Date Collected: 06/13/19 10:00
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-9

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Barium	**0.093**		0.020		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:06	1
Total Zinc	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:06	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-2 (GWC-16A)
Lab Sample ID: 680-170409-10

Date Collected: 06/13/19 10:05
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Barium	**0.026**		0.020		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Tin	ND		0.050		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:10	1
Total Zinc	ND		0.020		mg/L		06/19/19 11:09	06/20/19 04:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND	F1	0.00050		mg/L		06/19/19 12:47	06/21/19 15:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Trip Blank
Lab Sample ID: 680-170409-11

Date Collected: 06/13/19 00:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 02:21	1
Acetonitrile	ND		200		ug/L			06/26/19 02:21	1
Acrolein	ND		50		ug/L			06/26/19 02:21	1
Acrylonitrile	ND		50		ug/L			06/26/19 02:21	1
Benzene	ND		2.0		ug/L			06/26/19 02:21	1
Bromochloromethane	ND		10		ug/L			06/26/19 02:21	1
Bromodichloromethane	ND		10		ug/L			06/26/19 02:21	1
Bromoform	ND		10		ug/L			06/26/19 02:21	1
Bromomethane	ND		10		ug/L			06/26/19 02:21	1
2-Butanone	ND		100		ug/L			06/26/19 02:21	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 02:21	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 02:21	1
Chlorobenzene	ND		10		ug/L			06/26/19 02:21	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 02:21	1
Chloroethane	ND		2.0		ug/L			06/26/19 02:21	1
Chloroform	ND		2.0		ug/L			06/26/19 02:21	1
Chloromethane	ND		10		ug/L			06/26/19 02:21	1
Allyl chloride	ND		100		ug/L			06/26/19 02:21	1
Dibromochloromethane	ND		10		ug/L			06/26/19 02:21	1
Dibromomethane	ND		10		ug/L			06/26/19 02:21	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 02:21	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 02:21	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 02:21	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 02:21	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 02:21	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 02:21	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 02:21	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 02:21	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 02:21	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 02:21	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 02:21	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 02:21	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 02:21	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 02:21	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 02:21	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 02:21	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 02:21	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 02:21	1
2-Hexanone	ND		50		ug/L			06/26/19 02:21	1
Iodomethane	ND		100		ug/L			06/26/19 02:21	1
Isobutanol	ND		200		ug/L			06/26/19 02:21	1
Methacrylonitrile	ND		100		ug/L			06/26/19 02:21	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 02:21	1
Methyl methacrylate	ND		10		ug/L			06/26/19 02:21	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 02:21	1
Naphthalene	ND		10		ug/L			06/26/19 02:21	1
Propionitrile	ND		75		ug/L			06/26/19 02:21	1
Styrene	ND		10		ug/L			06/26/19 02:21	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 02:21	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Trip Blank
Lab Sample ID: 680-170409-11
Date Collected: 06/13/19 00:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 02:21	1
Tetrachloroethene	ND		2.0		ug/L			06/26/19 02:21	1
Toluene	ND		2.0		ug/L			06/26/19 02:21	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 02:21	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 02:21	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 02:21	1
Trichloroethene	ND		2.0		ug/L			06/26/19 02:21	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 02:21	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 02:21	1
Vinyl acetate	ND		100		ug/L			06/26/19 02:21	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 02:21	1
Xylenes	ND		5.0		ug/L			06/26/19 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/26/19 02:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/26/19 02:21*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/26/19 02:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/26/19 02:21*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-22
Lab Sample ID: 680-170409-12

Date Collected: 06/13/19 09:15
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Barium	**0.021**		0.020		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:03	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:03	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-7
Lab Sample ID: 680-170409-13
Date Collected: 06/13/19 10:00
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Barium	**0.048**		0.020		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:18	1
Total Zinc	**0.023**		0.020		mg/L		06/19/19 15:01	06/24/19 19:18	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-9
Lab Sample ID: 680-170409-14
Date Collected: 06/13/19 09:50
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:22	1
Total Zinc	**0.022**		0.020		mg/L		06/19/19 15:01	06/24/19 19:22	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWB-2
Lab Sample ID: 680-170409-15
Date Collected: 06/13/19 09:45
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:45	1
Total Zinc	**0.033**		0.020		mg/L		06/19/19 15:01	06/24/19 18:45	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-6
Lab Sample ID: 680-170409-16
Date Collected: 06/13/19 10:10
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:48	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:48	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-5
Lab Sample ID: 680-170409-17
Date Collected: 06/13/19 10:15
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:59	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:59	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-13
Lab Sample ID: 680-170409-18
Date Collected: 06/13/19 10:20
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:41	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:41	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-4
Lab Sample ID: 680-170409-19
Date Collected: 06/13/19 10:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 15:30	1
Acrylonitrile	ND		50		ug/L			06/22/19 15:30	1
Benzene	ND		2.0		ug/L			06/22/19 15:30	1
Bromochloromethane	ND		10		ug/L			06/22/19 15:30	1
Bromodichloromethane	ND		10		ug/L			06/22/19 15:30	1
Bromoform	ND		10		ug/L			06/22/19 15:30	1
Bromomethane	ND		10		ug/L			06/22/19 15:30	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 15:30	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 15:30	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 15:30	1
Chlorobenzene	ND		10		ug/L			06/22/19 15:30	1
Chloroethane	ND		2.0		ug/L			06/22/19 15:30	1
Chloroform	ND		2.0		ug/L			06/22/19 15:30	1
Chloromethane	ND		10		ug/L			06/22/19 15:30	1
Dibromochloromethane	ND		10		ug/L			06/22/19 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 15:30	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 15:30	1
Dibromomethane	ND		10		ug/L			06/22/19 15:30	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 15:30	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 15:30	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 15:30	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 15:30	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 15:30	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:30	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:30	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 15:30	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 15:30	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:30	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:30	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 15:30	1
2-Hexanone	ND		50		ug/L			06/22/19 15:30	1
Iodomethane	ND		100		ug/L			06/22/19 15:30	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 15:30	1
Styrene	ND		10		ug/L			06/22/19 15:30	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:30	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:30	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 15:30	1
Toluene	ND		2.0		ug/L			06/22/19 15:30	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 15:30	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 15:30	1
Trichloroethene	ND		2.0		ug/L			06/22/19 15:30	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 15:30	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 15:30	1
Vinyl acetate	ND		100		ug/L			06/22/19 15:30	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 15:30	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/22/19 15:30*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-4
Lab Sample ID: 680-170409-19
Date Collected: 06/13/19 10:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		06/22/19 15:30	1
Dibromofluoromethane (Surr)	92		80 - 122		06/22/19 15:30	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/22/19 15:30	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-1
Lab Sample ID: 680-170409-20
Date Collected: 06/13/19 11:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 15:53	1
Acrylonitrile	ND		50		ug/L			06/22/19 15:53	1
Benzene	ND		2.0		ug/L			06/22/19 15:53	1
Bromochloromethane	ND		10		ug/L			06/22/19 15:53	1
Bromodichloromethane	ND		10		ug/L			06/22/19 15:53	1
Bromoform	ND		10		ug/L			06/22/19 15:53	1
Bromomethane	ND		10		ug/L			06/22/19 15:53	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 15:53	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 15:53	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 15:53	1
Chlorobenzene	ND		10		ug/L			06/22/19 15:53	1
Chloroethane	ND		2.0		ug/L			06/22/19 15:53	1
Chloroform	ND		2.0		ug/L			06/22/19 15:53	1
Chloromethane	ND		10		ug/L			06/22/19 15:53	1
Dibromochloromethane	ND		10		ug/L			06/22/19 15:53	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 15:53	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 15:53	1
Dibromomethane	ND		10		ug/L			06/22/19 15:53	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 15:53	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 15:53	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 15:53	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 15:53	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 15:53	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:53	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:53	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 15:53	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 15:53	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:53	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:53	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 15:53	1
2-Hexanone	ND		50		ug/L			06/22/19 15:53	1
Iodomethane	ND		100		ug/L			06/22/19 15:53	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 15:53	1
Styrene	ND		10		ug/L			06/22/19 15:53	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:53	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:53	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 15:53	1
Toluene	ND		2.0		ug/L			06/22/19 15:53	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 15:53	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 15:53	1
Trichloroethene	ND		2.0		ug/L			06/22/19 15:53	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 15:53	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 15:53	1
Vinyl acetate	ND		100		ug/L			06/22/19 15:53	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 15:53	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/22/19 15:53*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-1
Lab Sample ID: 680-170409-20
Date Collected: 06/13/19 11:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		06/22/19 15:53	1
Dibromofluoromethane (Surr)	93		80 - 122		06/22/19 15:53	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/19 15:53	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-12
Lab Sample ID: 680-170409-21
Date Collected: 06/13/19 12:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 04:41	1
Acetonitrile	ND		200		ug/L			06/26/19 04:41	1
Acrolein	ND		50		ug/L			06/26/19 04:41	1
Acrylonitrile	ND		50		ug/L			06/26/19 04:41	1
Benzene	ND		2.0		ug/L			06/26/19 04:41	1
Bromochloromethane	ND		10		ug/L			06/26/19 04:41	1
Bromodichloromethane	ND		10		ug/L			06/26/19 04:41	1
Bromoform	ND		10		ug/L			06/26/19 04:41	1
Bromomethane	ND		10		ug/L			06/26/19 04:41	1
2-Butanone	ND		100		ug/L			06/26/19 04:41	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 04:41	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 04:41	1
Chlorobenzene	ND		10		ug/L			06/26/19 04:41	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 04:41	1
Chloroethane	ND		2.0		ug/L			06/26/19 04:41	1
Chloroform	ND		2.0		ug/L			06/26/19 04:41	1
Chloromethane	ND		10		ug/L			06/26/19 04:41	1
Allyl chloride	ND		100		ug/L			06/26/19 04:41	1
Dibromochloromethane	ND		10		ug/L			06/26/19 04:41	1
Dibromomethane	ND		10		ug/L			06/26/19 04:41	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 04:41	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 04:41	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 04:41	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 04:41	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 04:41	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 04:41	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 04:41	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 04:41	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 04:41	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 04:41	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 04:41	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 04:41	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 04:41	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 04:41	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 04:41	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 04:41	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 04:41	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 04:41	1
2-Hexanone	ND		50		ug/L			06/26/19 04:41	1
Iodomethane	ND		100		ug/L			06/26/19 04:41	1
Isobutanol	ND		200		ug/L			06/26/19 04:41	1
Methacrylonitrile	ND		100		ug/L			06/26/19 04:41	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 04:41	1
Methyl methacrylate	ND		10		ug/L			06/26/19 04:41	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 04:41	1
Naphthalene	ND		10		ug/L			06/26/19 04:41	1
Propionitrile	ND		75		ug/L			06/26/19 04:41	1
Styrene	ND		10		ug/L			06/26/19 04:41	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 04:41	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-12
Lab Sample ID: 680-170409-21
Date Collected: 06/13/19 12:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 04:41	1
Tetrachloroethene	**7.3**		2.0		ug/L			06/26/19 04:41	1
Toluene	ND		2.0		ug/L			06/26/19 04:41	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 04:41	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 04:41	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 04:41	1
Trichloroethene	ND		2.0		ug/L			06/26/19 04:41	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 04:41	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 04:41	1
Vinyl acetate	ND		100		ug/L			06/26/19 04:41	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 04:41	1
Xylenes	ND		5.0		ug/L			06/26/19 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/26/19 04:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/26/19 04:41*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/26/19 04:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/26/19 04:41*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-12R
Lab Sample ID: 680-170409-22
Date Collected: 06/13/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 02:45	1
Acetonitrile	ND		200		ug/L			06/26/19 02:45	1
Acrolein	ND		50		ug/L			06/26/19 02:45	1
Acrylonitrile	ND		50		ug/L			06/26/19 02:45	1
Benzene	ND		2.0		ug/L			06/26/19 02:45	1
Bromochloromethane	ND		10		ug/L			06/26/19 02:45	1
Bromodichloromethane	ND		10		ug/L			06/26/19 02:45	1
Bromoform	ND		10		ug/L			06/26/19 02:45	1
Bromomethane	ND		10		ug/L			06/26/19 02:45	1
2-Butanone	ND		100		ug/L			06/26/19 02:45	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 02:45	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 02:45	1
Chlorobenzene	ND		10		ug/L			06/26/19 02:45	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 02:45	1
Chloroethane	ND		2.0		ug/L			06/26/19 02:45	1
Chloroform	ND		2.0		ug/L			06/26/19 02:45	1
Chloromethane	ND		10		ug/L			06/26/19 02:45	1
Allyl chloride	ND		100		ug/L			06/26/19 02:45	1
Dibromochloromethane	ND		10		ug/L			06/26/19 02:45	1
Dibromomethane	ND		10		ug/L			06/26/19 02:45	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 02:45	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 02:45	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 02:45	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 02:45	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 02:45	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 02:45	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 02:45	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 02:45	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 02:45	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 02:45	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 02:45	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 02:45	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 02:45	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 02:45	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 02:45	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 02:45	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 02:45	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 02:45	1
2-Hexanone	ND		50		ug/L			06/26/19 02:45	1
Iodomethane	ND		100		ug/L			06/26/19 02:45	1
Isobutanol	ND		200		ug/L			06/26/19 02:45	1
Methacrylonitrile	ND		100		ug/L			06/26/19 02:45	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 02:45	1
Methyl methacrylate	ND		10		ug/L			06/26/19 02:45	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 02:45	1
Naphthalene	ND		10		ug/L			06/26/19 02:45	1
Propionitrile	ND		75		ug/L			06/26/19 02:45	1
Styrene	ND		10		ug/L			06/26/19 02:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 02:45	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-12R
Lab Sample ID: 680-170409-22
Date Collected: 06/13/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 02:45	1
Tetrachloroethene	**3.0**		2.0		ug/L			06/26/19 02:45	1
Toluene	ND		2.0		ug/L			06/26/19 02:45	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 02:45	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 02:45	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 02:45	1
Trichloroethene	ND		2.0		ug/L			06/26/19 02:45	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 02:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 02:45	1
Vinyl acetate	ND		100		ug/L			06/26/19 02:45	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 02:45	1
Xylenes	ND		5.0		ug/L			06/26/19 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/26/19 02:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/26/19 02:45*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*06/26/19 02:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/26/19 02:45*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-22

Date Collected: 06/12/19 12:25
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 16:16	1
Acrylonitrile	ND		50		ug/L			06/22/19 16:16	1
Benzene	ND		2.0		ug/L			06/22/19 16:16	1
Bromochloromethane	ND		10		ug/L			06/22/19 16:16	1
Bromodichloromethane	ND		10		ug/L			06/22/19 16:16	1
Bromoform	ND		10		ug/L			06/22/19 16:16	1
Bromomethane	ND		10		ug/L			06/22/19 16:16	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 16:16	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 16:16	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 16:16	1
Chlorobenzene	ND		10		ug/L			06/22/19 16:16	1
Chloroethane	ND		2.0		ug/L			06/22/19 16:16	1
Chloroform	ND		2.0		ug/L			06/22/19 16:16	1
Chloromethane	ND		10		ug/L			06/22/19 16:16	1
Dibromochloromethane	ND		10		ug/L			06/22/19 16:16	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 16:16	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 16:16	1
Dibromomethane	ND		10		ug/L			06/22/19 16:16	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 16:16	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 16:16	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 16:16	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 16:16	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 16:16	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 16:16	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 16:16	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 16:16	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 16:16	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 16:16	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 16:16	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 16:16	1
2-Hexanone	ND		50		ug/L			06/22/19 16:16	1
Iodomethane	ND		100		ug/L			06/22/19 16:16	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 16:16	1
Styrene	ND		10		ug/L			06/22/19 16:16	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 16:16	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 16:16	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 16:16	1
Toluene	ND		2.0		ug/L			06/22/19 16:16	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 16:16	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 16:16	1
Trichloroethene	ND		2.0		ug/L			06/22/19 16:16	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 16:16	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 16:16	1
Vinyl acetate	ND		100		ug/L			06/22/19 16:16	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 16:16	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/22/19 16:16*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-22
Lab Sample ID: 680-170409-23
Date Collected: 06/12/19 12:25
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		06/22/19 16:16	1
Dibromofluoromethane (Surr)	92		80 - 122		06/22/19 16:16	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/22/19 16:16	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23
Lab Sample ID: 680-170409-24
Date Collected: 06/12/19 11:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 16:39	1
Acrylonitrile	ND		50		ug/L			06/22/19 16:39	1
Benzene	ND		2.0		ug/L			06/22/19 16:39	1
Bromochloromethane	ND		10		ug/L			06/22/19 16:39	1
Bromodichloromethane	ND		10		ug/L			06/22/19 16:39	1
Bromoform	ND		10		ug/L			06/22/19 16:39	1
Bromomethane	ND		10		ug/L			06/22/19 16:39	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 16:39	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 16:39	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 16:39	1
Chlorobenzene	ND		10		ug/L			06/22/19 16:39	1
Chloroethane	ND		2.0		ug/L			06/22/19 16:39	1
Chloroform	ND		2.0		ug/L			06/22/19 16:39	1
Chloromethane	ND		10		ug/L			06/22/19 16:39	1
Dibromochloromethane	ND		10		ug/L			06/22/19 16:39	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 16:39	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 16:39	1
Dibromomethane	ND		10		ug/L			06/22/19 16:39	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 16:39	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 16:39	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 16:39	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 16:39	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 16:39	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 16:39	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 16:39	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 16:39	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 16:39	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 16:39	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 16:39	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 16:39	1
2-Hexanone	ND		50		ug/L			06/22/19 16:39	1
Iodomethane	ND		100		ug/L			06/22/19 16:39	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 16:39	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 16:39	1
Styrene	ND		10		ug/L			06/22/19 16:39	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 16:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 16:39	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 16:39	1
Toluene	ND		2.0		ug/L			06/22/19 16:39	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 16:39	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 16:39	1
Trichloroethene	ND		2.0		ug/L			06/22/19 16:39	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 16:39	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 16:39	1
Vinyl acetate	ND		100		ug/L			06/22/19 16:39	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 16:39	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 16:39*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23
Lab Sample ID: 680-170409-24
Date Collected: 06/12/19 11:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		06/22/19 16:39	1
Dibromofluoromethane (Surr)	92		80 - 122		06/22/19 16:39	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/19 16:39	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23A
Lab Sample ID: 680-170409-25
Date Collected: 06/12/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 17:03	1
Acrylonitrile	ND		50		ug/L			06/22/19 17:03	1
Benzene	ND		2.0		ug/L			06/22/19 17:03	1
Bromochloromethane	ND		10		ug/L			06/22/19 17:03	1
Bromodichloromethane	ND		10		ug/L			06/22/19 17:03	1
Bromoform	ND		10		ug/L			06/22/19 17:03	1
Bromomethane	ND		10		ug/L			06/22/19 17:03	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 17:03	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 17:03	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 17:03	1
Chlorobenzene	ND		10		ug/L			06/22/19 17:03	1
Chloroethane	ND		2.0		ug/L			06/22/19 17:03	1
Chloroform	ND		2.0		ug/L			06/22/19 17:03	1
Chloromethane	ND		10		ug/L			06/22/19 17:03	1
Dibromochloromethane	ND		10		ug/L			06/22/19 17:03	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 17:03	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 17:03	1
Dibromomethane	ND		10		ug/L			06/22/19 17:03	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 17:03	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 17:03	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 17:03	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 17:03	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 17:03	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:03	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:03	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 17:03	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 17:03	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:03	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:03	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 17:03	1
2-Hexanone	ND		50		ug/L			06/22/19 17:03	1
Iodomethane	ND		100		ug/L			06/22/19 17:03	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 17:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 17:03	1
Styrene	ND		10		ug/L			06/22/19 17:03	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:03	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:03	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 17:03	1
Toluene	ND		2.0		ug/L			06/22/19 17:03	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 17:03	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 17:03	1
Trichloroethene	ND		2.0		ug/L			06/22/19 17:03	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 17:03	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 17:03	1
Vinyl acetate	ND		100		ug/L			06/22/19 17:03	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 17:03	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/22/19 17:03*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23A
Lab Sample ID: 680-170409-25
Date Collected: 06/12/19 11:50
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		06/22/19 17:03	1
Dibromofluoromethane (Surr)	94		80 - 122		06/22/19 17:03	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/22/19 17:03	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-13
Date Collected: 06/12/19 13:00
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-26
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 17:26	1
Acrylonitrile	ND		50		ug/L			06/22/19 17:26	1
Benzene	ND		2.0		ug/L			06/22/19 17:26	1
Bromochloromethane	ND		10		ug/L			06/22/19 17:26	1
Bromodichloromethane	ND		10		ug/L			06/22/19 17:26	1
Bromoform	ND		10		ug/L			06/22/19 17:26	1
Bromomethane	ND		10		ug/L			06/22/19 17:26	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 17:26	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 17:26	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 17:26	1
Chlorobenzene	ND		10		ug/L			06/22/19 17:26	1
Chloroethane	ND		2.0		ug/L			06/22/19 17:26	1
Chloroform	ND		2.0		ug/L			06/22/19 17:26	1
Chloromethane	ND		10		ug/L			06/22/19 17:26	1
Dibromochloromethane	ND		10		ug/L			06/22/19 17:26	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 17:26	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 17:26	1
Dibromomethane	ND		10		ug/L			06/22/19 17:26	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 17:26	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 17:26	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 17:26	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 17:26	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 17:26	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:26	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:26	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 17:26	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 17:26	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:26	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:26	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 17:26	1
2-Hexanone	ND		50		ug/L			06/22/19 17:26	1
Iodomethane	ND		100		ug/L			06/22/19 17:26	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 17:26	1
Styrene	ND		10		ug/L			06/22/19 17:26	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:26	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:26	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 17:26	1
Toluene	ND		2.0		ug/L			06/22/19 17:26	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 17:26	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 17:26	1
Trichloroethene	ND		2.0		ug/L			06/22/19 17:26	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 17:26	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 17:26	1
Vinyl acetate	ND		100		ug/L			06/22/19 17:26	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 17:26	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 17:26*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-13
Lab Sample ID: 680-170409-26
Date Collected: 06/12/19 13:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		06/22/19 17:26	1
Dibromofluoromethane (Surr)	93		80 - 122		06/22/19 17:26	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/19 17:26	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-7
Lab Sample ID: 680-170409-27
Date Collected: 06/12/19 13:30
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 17:49	1
Acrylonitrile	ND		50		ug/L			06/22/19 17:49	1
Benzene	ND		2.0		ug/L			06/22/19 17:49	1
Bromochloromethane	ND		10		ug/L			06/22/19 17:49	1
Bromodichloromethane	ND		10		ug/L			06/22/19 17:49	1
Bromoform	ND		10		ug/L			06/22/19 17:49	1
Bromomethane	ND		10		ug/L			06/22/19 17:49	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 17:49	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 17:49	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 17:49	1
Chlorobenzene	ND		10		ug/L			06/22/19 17:49	1
Chloroethane	ND		2.0		ug/L			06/22/19 17:49	1
Chloroform	ND		2.0		ug/L			06/22/19 17:49	1
Chloromethane	ND		10		ug/L			06/22/19 17:49	1
Dibromochloromethane	ND		10		ug/L			06/22/19 17:49	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 17:49	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 17:49	1
Dibromomethane	ND		10		ug/L			06/22/19 17:49	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 17:49	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 17:49	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 17:49	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 17:49	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 17:49	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:49	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 17:49	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 17:49	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 17:49	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:49	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 17:49	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 17:49	1
2-Hexanone	ND		50		ug/L			06/22/19 17:49	1
Iodomethane	ND		100		ug/L			06/22/19 17:49	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 17:49	1
Styrene	ND		10		ug/L			06/22/19 17:49	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:49	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 17:49	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 17:49	1
Toluene	ND		2.0		ug/L			06/22/19 17:49	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 17:49	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 17:49	1
Trichloroethene	ND		2.0		ug/L			06/22/19 17:49	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 17:49	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 17:49	1
Vinyl acetate	ND		100		ug/L			06/22/19 17:49	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 17:49	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 17:49*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-7
Lab Sample ID: 680-170409-27
Date Collected: 06/12/19 13:30
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		06/22/19 17:49	1
Dibromofluoromethane (Surr)	93		80 - 122		06/22/19 17:49	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/19 17:49	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-6
Date Collected: 06/12/19 14:00
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 18:12	1
Acrylonitrile	ND		50		ug/L			06/22/19 18:12	1
Benzene	ND		2.0		ug/L			06/22/19 18:12	1
Bromochloromethane	ND		10		ug/L			06/22/19 18:12	1
Bromodichloromethane	ND		10		ug/L			06/22/19 18:12	1
Bromoform	ND		10		ug/L			06/22/19 18:12	1
Bromomethane	ND		10		ug/L			06/22/19 18:12	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 18:12	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 18:12	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 18:12	1
Chlorobenzene	ND		10		ug/L			06/22/19 18:12	1
Chloroethane	ND		2.0		ug/L			06/22/19 18:12	1
Chloroform	ND		2.0		ug/L			06/22/19 18:12	1
Chloromethane	ND		10		ug/L			06/22/19 18:12	1
Dibromochloromethane	ND		10		ug/L			06/22/19 18:12	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 18:12	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 18:12	1
Dibromomethane	ND		10		ug/L			06/22/19 18:12	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 18:12	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 18:12	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 18:12	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 18:12	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 18:12	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:12	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:12	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 18:12	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 18:12	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:12	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:12	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 18:12	1
2-Hexanone	ND		50		ug/L			06/22/19 18:12	1
Iodomethane	ND		100		ug/L			06/22/19 18:12	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 18:12	1
Styrene	ND		10		ug/L			06/22/19 18:12	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:12	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:12	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 18:12	1
Toluene	ND		2.0		ug/L			06/22/19 18:12	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 18:12	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 18:12	1
Trichloroethene	ND		2.0		ug/L			06/22/19 18:12	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 18:12	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 18:12	1
Vinyl acetate	ND		100		ug/L			06/22/19 18:12	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 18:12	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/22/19 18:12*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-6
Lab Sample ID: 680-170409-28
Date Collected: 06/12/19 14:00
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		73 - 131		06/22/19 18:12	1
Dibromofluoromethane (Surr)	97		80 - 122		06/22/19 18:12	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/22/19 18:12	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-5
Date Collected: 06/12/19 14:15
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 18:36	1
Acrylonitrile	ND		50		ug/L			06/22/19 18:36	1
Benzene	ND		2.0		ug/L			06/22/19 18:36	1
Bromochloromethane	ND		10		ug/L			06/22/19 18:36	1
Bromodichloromethane	ND		10		ug/L			06/22/19 18:36	1
Bromoform	ND		10		ug/L			06/22/19 18:36	1
Bromomethane	ND		10		ug/L			06/22/19 18:36	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 18:36	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 18:36	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 18:36	1
Chlorobenzene	ND		10		ug/L			06/22/19 18:36	1
Chloroethane	ND		2.0		ug/L			06/22/19 18:36	1
Chloroform	ND		2.0		ug/L			06/22/19 18:36	1
Chloromethane	ND		10		ug/L			06/22/19 18:36	1
Dibromochloromethane	ND		10		ug/L			06/22/19 18:36	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 18:36	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 18:36	1
Dibromomethane	ND		10		ug/L			06/22/19 18:36	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 18:36	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 18:36	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 18:36	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 18:36	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 18:36	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:36	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:36	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 18:36	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 18:36	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:36	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:36	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 18:36	1
2-Hexanone	ND		50		ug/L			06/22/19 18:36	1
Iodomethane	ND		100		ug/L			06/22/19 18:36	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 18:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 18:36	1
Styrene	ND		10		ug/L			06/22/19 18:36	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:36	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:36	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 18:36	1
Toluene	ND		2.0		ug/L			06/22/19 18:36	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 18:36	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 18:36	1
Trichloroethene	ND		2.0		ug/L			06/22/19 18:36	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 18:36	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 18:36	1
Vinyl acetate	ND		100		ug/L			06/22/19 18:36	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 18:36	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 18:36*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-5
Lab Sample ID: 680-170409-29
Date Collected: 06/12/19 14:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		06/22/19 18:36	1
Dibromofluoromethane (Surr)	96		80 - 122		06/22/19 18:36	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/19 18:36	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWB-2
Lab Sample ID: 680-170409-30
Date Collected: 06/12/19 14:45
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 18:59	1
Acrylonitrile	ND		50		ug/L			06/22/19 18:59	1
Benzene	ND		2.0		ug/L			06/22/19 18:59	1
Bromochloromethane	ND		10		ug/L			06/22/19 18:59	1
Bromodichloromethane	ND		10		ug/L			06/22/19 18:59	1
Bromoform	ND		10		ug/L			06/22/19 18:59	1
Bromomethane	ND		10		ug/L			06/22/19 18:59	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 18:59	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 18:59	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 18:59	1
Chlorobenzene	ND		10		ug/L			06/22/19 18:59	1
Chloroethane	ND		2.0		ug/L			06/22/19 18:59	1
Chloroform	ND		2.0		ug/L			06/22/19 18:59	1
Chloromethane	ND		10		ug/L			06/22/19 18:59	1
Dibromochloromethane	ND		10		ug/L			06/22/19 18:59	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 18:59	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 18:59	1
Dibromomethane	ND		10		ug/L			06/22/19 18:59	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 18:59	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 18:59	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 18:59	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 18:59	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 18:59	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:59	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 18:59	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 18:59	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 18:59	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:59	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 18:59	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 18:59	1
2-Hexanone	ND		50		ug/L			06/22/19 18:59	1
Iodomethane	ND		100		ug/L			06/22/19 18:59	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 18:59	1
Styrene	ND		10		ug/L			06/22/19 18:59	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:59	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 18:59	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 18:59	1
Toluene	ND		2.0		ug/L			06/22/19 18:59	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 18:59	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 18:59	1
Trichloroethene	ND		2.0		ug/L			06/22/19 18:59	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 18:59	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 18:59	1
Vinyl acetate	ND		100		ug/L			06/22/19 18:59	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 18:59	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/22/19 18:59*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWB-2
Lab Sample ID: 680-170409-30
Date Collected: 06/12/19 14:45
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		06/22/19 18:59	1
Dibromofluoromethane (Surr)	95		80 - 122		06/22/19 18:59	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/22/19 18:59	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-9
Lab Sample ID: 680-170409-31
Date Collected: 06/12/19 15:10
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 14:42	1
Acetonitrile	ND		200		ug/L			06/25/19 14:42	1
Acrolein	ND		50		ug/L			06/25/19 14:42	1
Acrylonitrile	ND		50		ug/L			06/25/19 14:42	1
Benzene	ND		2.0		ug/L			06/25/19 14:42	1
Bromochloromethane	ND		10		ug/L			06/25/19 14:42	1
Bromodichloromethane	ND		10		ug/L			06/25/19 14:42	1
Bromoform	ND		10		ug/L			06/25/19 14:42	1
Bromomethane	ND		10		ug/L			06/25/19 14:42	1
2-Butanone	ND		100		ug/L			06/25/19 14:42	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 14:42	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 14:42	1
Chlorobenzene	ND		10		ug/L			06/25/19 14:42	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 14:42	1
Chloroethane	ND		2.0		ug/L			06/25/19 14:42	1
Chloroform	ND		2.0		ug/L			06/25/19 14:42	1
Chloromethane	ND		10		ug/L			06/25/19 14:42	1
Allyl chloride	ND		100		ug/L			06/25/19 14:42	1
Dibromochloromethane	ND		10		ug/L			06/25/19 14:42	1
Dibromomethane	ND		10		ug/L			06/25/19 14:42	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 14:42	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 14:42	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 14:42	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 14:42	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 14:42	1
1,1-Dichloroethane	ND		2.0		ug/L			06/25/19 14:42	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 14:42	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 14:42	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 14:42	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 14:42	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 14:42	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 14:42	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 14:42	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 14:42	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 14:42	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 14:42	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 14:42	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 14:42	1
2-Hexanone	ND		50		ug/L			06/25/19 14:42	1
Iodomethane	ND		100		ug/L			06/25/19 14:42	1
Isobutanol	ND		200		ug/L			06/25/19 14:42	1
Methacrylonitrile	ND		100		ug/L			06/25/19 14:42	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 14:42	1
Methyl methacrylate	ND		10		ug/L			06/25/19 14:42	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 14:42	1
Naphthalene	ND		10		ug/L			06/25/19 14:42	1
Propionitrile	ND		75		ug/L			06/25/19 14:42	1
Styrene	ND		10		ug/L			06/25/19 14:42	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 14:42	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-9
Lab Sample ID: 680-170409-31
Date Collected: 06/12/19 15:10
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 14:42	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 14:42	1
Toluene	ND		2.0		ug/L			06/25/19 14:42	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 14:42	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 14:42	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 14:42	1
Trichloroethene	ND		2.0		ug/L			06/25/19 14:42	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 14:42	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 14:42	1
Vinyl acetate	ND		100		ug/L			06/25/19 14:42	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 14:42	1
Xylenes	ND		5.0		ug/L			06/25/19 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/25/19 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/25/19 14:42*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*06/25/19 14:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/25/19 14:42*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23
Lab Sample ID: 680-170409-32
Date Collected: 06/13/19 09:05
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:33	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:33	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23A
Lab Sample ID: 680-170409-33
Date Collected: 06/13/19 09:10
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:29	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:29	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Field Blank 2
Lab Sample ID: 680-170409-34
Date Collected: 06/12/19 11:10
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 19:22	1
Acrylonitrile	ND		50		ug/L			06/22/19 19:22	1
Benzene	ND		2.0		ug/L			06/22/19 19:22	1
Bromochloromethane	ND		10		ug/L			06/22/19 19:22	1
Bromodichloromethane	ND		10		ug/L			06/22/19 19:22	1
Bromoform	ND		10		ug/L			06/22/19 19:22	1
Bromomethane	ND		10		ug/L			06/22/19 19:22	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 19:22	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 19:22	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 19:22	1
Chlorobenzene	ND		10		ug/L			06/22/19 19:22	1
Chloroethane	ND		2.0		ug/L			06/22/19 19:22	1
Chloroform	ND		2.0		ug/L			06/22/19 19:22	1
Chloromethane	ND		10		ug/L			06/22/19 19:22	1
Dibromochloromethane	ND		10		ug/L			06/22/19 19:22	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 19:22	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 19:22	1
Dibromomethane	ND		10		ug/L			06/22/19 19:22	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 19:22	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 19:22	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 19:22	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 19:22	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 19:22	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 19:22	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 19:22	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 19:22	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 19:22	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 19:22	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 19:22	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 19:22	1
2-Hexanone	ND		50		ug/L			06/22/19 19:22	1
Iodomethane	ND		100		ug/L			06/22/19 19:22	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 19:22	1
Styrene	ND		10		ug/L			06/22/19 19:22	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 19:22	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 19:22	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 19:22	1
Toluene	ND		2.0		ug/L			06/22/19 19:22	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 19:22	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 19:22	1
Trichloroethene	ND		2.0		ug/L			06/22/19 19:22	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 19:22	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 19:22	1
Vinyl acetate	ND		100		ug/L			06/22/19 19:22	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 19:22	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 19:22*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: Field Blank 2
Date Collected: 06/12/19 11:10
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-34
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*06/22/19 19:22*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/22/19 19:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/22/19 19:22*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:25	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:25	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14R
Lab Sample ID: 680-170409-35
Date Collected: 06/12/19 11:30
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 19:22	1
Acetonitrile	ND		200		ug/L			06/25/19 19:22	1
Acrolein	ND		50		ug/L			06/25/19 19:22	1
Acrylonitrile	ND		50		ug/L			06/25/19 19:22	1
Benzene	ND		2.0		ug/L			06/25/19 19:22	1
Bromochloromethane	ND		10		ug/L			06/25/19 19:22	1
Bromodichloromethane	ND		10		ug/L			06/25/19 19:22	1
Bromoform	ND		10		ug/L			06/25/19 19:22	1
Bromomethane	ND		10		ug/L			06/25/19 19:22	1
2-Butanone	ND		100		ug/L			06/25/19 19:22	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 19:22	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 19:22	1
Chlorobenzene	ND		10		ug/L			06/25/19 19:22	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 19:22	1
Chloroethane	ND		2.0		ug/L			06/25/19 19:22	1
Chloroform	ND		2.0		ug/L			06/25/19 19:22	1
Chloromethane	ND		10		ug/L			06/25/19 19:22	1
Allyl chloride	ND		100		ug/L			06/25/19 19:22	1
Dibromochloromethane	ND		10		ug/L			06/25/19 19:22	1
Dibromomethane	ND		10		ug/L			06/25/19 19:22	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 19:22	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 19:22	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 19:22	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 19:22	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 19:22	1
1,1-Dichloroethane	**18**		2.0		ug/L			06/25/19 19:22	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 19:22	1
cis-1,2-Dichloroethene	**21**		2.0		ug/L			06/25/19 19:22	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 19:22	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 19:22	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 19:22	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 19:22	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 19:22	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 19:22	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 19:22	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 19:22	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 19:22	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 19:22	1
2-Hexanone	ND		50		ug/L			06/25/19 19:22	1
Iodomethane	ND		100		ug/L			06/25/19 19:22	1
Isobutanol	ND		200		ug/L			06/25/19 19:22	1
Methacrylonitrile	ND		100		ug/L			06/25/19 19:22	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 19:22	1
Methyl methacrylate	ND		10		ug/L			06/25/19 19:22	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 19:22	1
Naphthalene	ND		10		ug/L			06/25/19 19:22	1
Propionitrile	ND		75		ug/L			06/25/19 19:22	1
Styrene	ND		10		ug/L			06/25/19 19:22	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 19:22	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14R
Lab Sample ID: 680-170409-35
Date Collected: 06/12/19 11:30
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 19:22	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 19:22	1
Toluene	ND		2.0		ug/L			06/25/19 19:22	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 19:22	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 19:22	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 19:22	1
Trichloroethene	**4.7**		2.0		ug/L			06/25/19 19:22	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 19:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 19:22	1
Vinyl acetate	ND		100		ug/L			06/25/19 19:22	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 19:22	1
Xylenes	ND		5.0		ug/L			06/25/19 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/25/19 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*06/25/19 19:22*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*06/25/19 19:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/25/19 19:22*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-8

Date Collected: 06/12/19 12:45
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-36

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 19:45	1
Acrylonitrile	ND		50		ug/L			06/22/19 19:45	1
Benzene	ND		2.0		ug/L			06/22/19 19:45	1
Bromochloromethane	ND		10		ug/L			06/22/19 19:45	1
Bromodichloromethane	ND		10		ug/L			06/22/19 19:45	1
Bromoform	ND		10		ug/L			06/22/19 19:45	1
Bromomethane	ND		10		ug/L			06/22/19 19:45	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 19:45	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 19:45	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 19:45	1
Chlorobenzene	ND		10		ug/L			06/22/19 19:45	1
Chloroethane	ND		2.0		ug/L			06/22/19 19:45	1
Chloroform	ND		2.0		ug/L			06/22/19 19:45	1
Chloromethane	ND		10		ug/L			06/22/19 19:45	1
Dibromochloromethane	ND		10		ug/L			06/22/19 19:45	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 19:45	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 19:45	1
Dibromomethane	ND		10		ug/L			06/22/19 19:45	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 19:45	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 19:45	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 19:45	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 19:45	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 19:45	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 19:45	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 19:45	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 19:45	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 19:45	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 19:45	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 19:45	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 19:45	1
2-Hexanone	ND		50		ug/L			06/22/19 19:45	1
Iodomethane	ND		100		ug/L			06/22/19 19:45	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 19:45	1
Styrene	ND		10		ug/L			06/22/19 19:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 19:45	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 19:45	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 19:45	1
Toluene	ND		2.0		ug/L			06/22/19 19:45	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 19:45	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 19:45	1
Trichloroethene	ND		2.0		ug/L			06/22/19 19:45	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 19:45	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 19:45	1
Vinyl acetate	ND		100		ug/L			06/22/19 19:45	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 19:45	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 19:45*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8
Lab Sample ID: 680-170409-36
Date Collected: 06/12/19 12:45
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		06/22/19 19:45	1
Dibromofluoromethane (Surr)	94		80 - 122		06/22/19 19:45	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/19 19:45	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-170409-37

Date Collected: 06/12/19 12:55
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 13:55	1
Acetonitrile	ND		200		ug/L			06/25/19 13:55	1
Acrolein	ND		50		ug/L			06/25/19 13:55	1
Acrylonitrile	ND		50		ug/L			06/25/19 13:55	1
Benzene	ND		2.0		ug/L			06/25/19 13:55	1
Bromochloromethane	ND		10		ug/L			06/25/19 13:55	1
Bromodichloromethane	ND		10		ug/L			06/25/19 13:55	1
Bromoform	ND		10		ug/L			06/25/19 13:55	1
Bromomethane	ND		10		ug/L			06/25/19 13:55	1
2-Butanone	ND		100		ug/L			06/25/19 13:55	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 13:55	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 13:55	1
Chlorobenzene	ND		10		ug/L			06/25/19 13:55	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 13:55	1
Chloroethane	ND		2.0		ug/L			06/25/19 13:55	1
Chloroform	ND		2.0		ug/L			06/25/19 13:55	1
Chloromethane	ND		10		ug/L			06/25/19 13:55	1
Allyl chloride	ND		100		ug/L			06/25/19 13:55	1
Dibromochloromethane	ND		10		ug/L			06/25/19 13:55	1
Dibromomethane	ND		10		ug/L			06/25/19 13:55	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 13:55	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 13:55	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 13:55	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 13:55	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 13:55	1
1,1-Dichloroethane	**2.6**		2.0		ug/L			06/25/19 13:55	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 13:55	1
cis-1,2-Dichloroethene	**22**		2.0		ug/L			06/25/19 13:55	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 13:55	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 13:55	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 13:55	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 13:55	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 13:55	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 13:55	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 13:55	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 13:55	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 13:55	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 13:55	1
2-Hexanone	ND		50		ug/L			06/25/19 13:55	1
Iodomethane	ND		100		ug/L			06/25/19 13:55	1
Isobutanol	ND		200		ug/L			06/25/19 13:55	1
Methacrylonitrile	ND		100		ug/L			06/25/19 13:55	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 13:55	1
Methyl methacrylate	ND		10		ug/L			06/25/19 13:55	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 13:55	1
Naphthalene	ND		10		ug/L			06/25/19 13:55	1
Propionitrile	ND		75		ug/L			06/25/19 13:55	1
Styrene	ND		10		ug/L			06/25/19 13:55	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 13:55	1

Client Sample ID: GWC-8A **Lab Sample ID: 680-170409-37**
Date Collected: 06/12/19 12:55 **Matrix: Water**
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 13:55	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 13:55	1
Toluene	ND		2.0		ug/L			06/25/19 13:55	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 13:55	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 13:55	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 13:55	1
Trichloroethene	ND		2.0		ug/L			06/25/19 13:55	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 13:55	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 13:55	1
Vinyl acetate	ND		100		ug/L			06/25/19 13:55	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 13:55	1
Xylenes	ND		5.0		ug/L			06/25/19 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/25/19 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/25/19 13:55*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*06/25/19 13:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/25/19 13:55*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/20/19 15:50	06/21/19 03:05	1
1,2-Dibromoethane	ND		0.049		ug/L		06/20/19 15:50	06/21/19 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*114*		*60 - 144*	*06/20/19 15:50*	*06/21/19 03:05*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.035		ug/L		07/10/19 14:27	07/15/19 19:05	1
4,4'-DDE	ND		0.035		ug/L		07/10/19 14:27	07/15/19 19:05	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
Chlordane	ND		0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
Endosulfan I	ND		0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Endosulfan II	ND		0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Endosulfan sulfate	ND		0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Endrin aldehyde	ND		0.035		ug/L		07/10/19 14:27	07/15/19 19:05	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 19:05	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
Isodrin	ND		0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Methoxychlor	ND	*	0.087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1221	ND		0.35		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:05	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-170409-37
Date Collected: 06/12/19 12:55
Matrix: Water
Date Received: 06/15/19 07:30

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.52		ug/L		07/10/19 14:27	07/15/19 19:05	1
4,4'-DDT	ND		0.035		ug/L		07/10/19 14:27	07/15/19 19:05	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:05	1
BHC-gamma	ND		0.0087		ug/L		07/10/19 14:27	07/15/19 19:05	1
Heptachlor	ND		0.0087		ug/L		07/10/19 14:27	07/15/19 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*10 - 130*	*07/10/19 14:27*	*07/15/19 19:05*	*1*
Tetrachloro-m-xylene	*53*		*39 - 130*	*07/10/19 14:27*	*07/15/19 19:05*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		6.0		ug/L		06/19/19 22:28	06/24/19 17:58	1
2,4-D	ND		6.0		ug/L		06/19/19 22:28	06/24/19 17:58	1
2-sec-Butyl-4,6-dinitrophenol	ND	*	1.4		ug/L		06/19/19 22:28	06/24/19 17:58	1
Pentachlorophenol	ND		1.2		ug/L		06/19/19 22:28	06/24/19 17:58	1
2,4,5-TP	ND		12		ug/L		06/19/19 22:28	06/24/19 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*117*		*54 - 150*	*06/19/19 22:28*	*06/24/19 17:58*	*1*
2,4-Dichlorophenylacetic acid	*103*		*54 - 150*	*06/19/19 22:28*	*06/24/19 17:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:26	1
Sulfide	**1.2**		0.86		mg/L			06/19/19 15:34	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8R
Date Collected: 06/12/19 13:15
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-38
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 14:19	1
Acetonitrile	ND		200		ug/L			06/25/19 14:19	1
Acrolein	ND		50		ug/L			06/25/19 14:19	1
Acrylonitrile	ND		50		ug/L			06/25/19 14:19	1
Benzene	ND		2.0		ug/L			06/25/19 14:19	1
Bromochloromethane	ND		10		ug/L			06/25/19 14:19	1
Bromodichloromethane	ND		10		ug/L			06/25/19 14:19	1
Bromoform	ND		10		ug/L			06/25/19 14:19	1
Bromomethane	ND		10		ug/L			06/25/19 14:19	1
2-Butanone	ND		100		ug/L			06/25/19 14:19	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 14:19	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 14:19	1
Chlorobenzene	ND		10		ug/L			06/25/19 14:19	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 14:19	1
Chloroethane	ND		2.0		ug/L			06/25/19 14:19	1
Chloroform	ND		2.0		ug/L			06/25/19 14:19	1
Chloromethane	ND		10		ug/L			06/25/19 14:19	1
Allyl chloride	ND		100		ug/L			06/25/19 14:19	1
Dibromochloromethane	ND		10		ug/L			06/25/19 14:19	1
Dibromomethane	ND		10		ug/L			06/25/19 14:19	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 14:19	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 14:19	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 14:19	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 14:19	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 14:19	1
1,1-Dichloroethane	**12**		2.0		ug/L			06/25/19 14:19	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 14:19	1
cis-1,2-Dichloroethene	**21**		2.0		ug/L			06/25/19 14:19	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 14:19	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 14:19	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 14:19	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 14:19	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 14:19	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 14:19	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 14:19	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 14:19	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 14:19	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 14:19	1
2-Hexanone	ND		50		ug/L			06/25/19 14:19	1
Iodomethane	ND		100		ug/L			06/25/19 14:19	1
Isobutanol	ND		200		ug/L			06/25/19 14:19	1
Methacrylonitrile	ND		100		ug/L			06/25/19 14:19	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 14:19	1
Methyl methacrylate	ND		10		ug/L			06/25/19 14:19	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 14:19	1
Naphthalene	ND		10		ug/L			06/25/19 14:19	1
Propionitrile	ND		75		ug/L			06/25/19 14:19	1
Styrene	ND		10		ug/L			06/25/19 14:19	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 14:19	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8R
Lab Sample ID: 680-170409-38
Date Collected: 06/12/19 13:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 14:19	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 14:19	1
Toluene	ND		2.0		ug/L			06/25/19 14:19	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 14:19	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 14:19	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 14:19	1
Trichloroethene	ND		2.0		ug/L			06/25/19 14:19	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 14:19	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 14:19	1
Vinyl acetate	ND		100		ug/L			06/25/19 14:19	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 14:19	1
Xylenes	ND		5.0		ug/L			06/25/19 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/25/19 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/25/19 14:19*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 122*		*06/25/19 14:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/25/19 14:19*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-9
Date Collected: 06/12/19 14:25
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-39
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 20:08	1
Acrylonitrile	ND		50		ug/L			06/22/19 20:08	1
Benzene	ND		2.0		ug/L			06/22/19 20:08	1
Bromochloromethane	ND		10		ug/L			06/22/19 20:08	1
Bromodichloromethane	ND		10		ug/L			06/22/19 20:08	1
Bromoform	ND		10		ug/L			06/22/19 20:08	1
Bromomethane	ND		10		ug/L			06/22/19 20:08	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 20:08	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 20:08	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 20:08	1
Chlorobenzene	ND		10		ug/L			06/22/19 20:08	1
Chloroethane	ND		2.0		ug/L			06/22/19 20:08	1
Chloroform	ND		2.0		ug/L			06/22/19 20:08	1
Chloromethane	ND		10		ug/L			06/22/19 20:08	1
Dibromochloromethane	ND		10		ug/L			06/22/19 20:08	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 20:08	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 20:08	1
Dibromomethane	ND		10		ug/L			06/22/19 20:08	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 20:08	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 20:08	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 20:08	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 20:08	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 20:08	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:08	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:08	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 20:08	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 20:08	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:08	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:08	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 20:08	1
2-Hexanone	ND		50		ug/L			06/22/19 20:08	1
Iodomethane	ND		100		ug/L			06/22/19 20:08	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 20:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 20:08	1
Styrene	ND		10		ug/L			06/22/19 20:08	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:08	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:08	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 20:08	1
Toluene	ND		2.0		ug/L			06/22/19 20:08	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 20:08	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 20:08	1
Trichloroethene	ND		2.0		ug/L			06/22/19 20:08	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 20:08	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 20:08	1
Vinyl acetate	ND		100		ug/L			06/22/19 20:08	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 20:08	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 20:08*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-9
Lab Sample ID: 680-170409-39
Date Collected: 06/12/19 14:25
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		73 - 131		06/22/19 20:08	1
Dibromofluoromethane (Surr)	92		80 - 122		06/22/19 20:08	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/19 20:08	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-11
Lab Sample ID: 680-170409-40
Date Collected: 06/12/19 14:55
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 20:32	1
Acrylonitrile	ND		50		ug/L			06/22/19 20:32	1
Benzene	ND		2.0		ug/L			06/22/19 20:32	1
Bromochloromethane	ND		10		ug/L			06/22/19 20:32	1
Bromodichloromethane	ND		10		ug/L			06/22/19 20:32	1
Bromoform	ND		10		ug/L			06/22/19 20:32	1
Bromomethane	ND		10		ug/L			06/22/19 20:32	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 20:32	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 20:32	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 20:32	1
Chlorobenzene	ND		10		ug/L			06/22/19 20:32	1
Chloroethane	ND		2.0		ug/L			06/22/19 20:32	1
Chloroform	ND		2.0		ug/L			06/22/19 20:32	1
Chloromethane	ND		10		ug/L			06/22/19 20:32	1
Dibromochloromethane	ND		10		ug/L			06/22/19 20:32	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 20:32	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 20:32	1
Dibromomethane	ND		10		ug/L			06/22/19 20:32	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 20:32	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 20:32	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 20:32	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 20:32	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 20:32	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:32	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:32	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 20:32	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 20:32	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:32	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:32	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 20:32	1
2-Hexanone	ND		50		ug/L			06/22/19 20:32	1
Iodomethane	ND		100		ug/L			06/22/19 20:32	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 20:32	1
Styrene	ND		10		ug/L			06/22/19 20:32	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:32	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:32	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 20:32	1
Toluene	ND		2.0		ug/L			06/22/19 20:32	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 20:32	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 20:32	1
Trichloroethene	ND		2.0		ug/L			06/22/19 20:32	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 20:32	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 20:32	1
Vinyl acetate	ND		100		ug/L			06/22/19 20:32	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 20:32	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/19 20:32*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-11
Lab Sample ID: 680-170409-40
Date Collected: 06/12/19 14:55
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		06/22/19 20:32	1
Dibromofluoromethane (Surr)	94		80 - 122		06/22/19 20:32	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/19 20:32	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-17
Lab Sample ID: 680-170409-41
Date Collected: 06/12/19 15:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 17:48	1
Acetonitrile	ND		200		ug/L			06/25/19 17:48	1
Acrolein	ND		50		ug/L			06/25/19 17:48	1
Acrylonitrile	ND		50		ug/L			06/25/19 17:48	1
Benzene	ND		2.0		ug/L			06/25/19 17:48	1
Bromochloromethane	ND		10		ug/L			06/25/19 17:48	1
Bromodichloromethane	ND		10		ug/L			06/25/19 17:48	1
Bromoform	ND		10		ug/L			06/25/19 17:48	1
Bromomethane	ND		10		ug/L			06/25/19 17:48	1
2-Butanone	ND		100		ug/L			06/25/19 17:48	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 17:48	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 17:48	1
Chlorobenzene	ND		10		ug/L			06/25/19 17:48	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 17:48	1
Chloroethane	ND		2.0		ug/L			06/25/19 17:48	1
Chloroform	ND		2.0		ug/L			06/25/19 17:48	1
Chloromethane	ND		10		ug/L			06/25/19 17:48	1
Allyl chloride	ND		100		ug/L			06/25/19 17:48	1
Dibromochloromethane	ND		10		ug/L			06/25/19 17:48	1
Dibromomethane	ND		10		ug/L			06/25/19 17:48	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 17:48	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 17:48	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 17:48	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 17:48	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 17:48	1
1,1-Dichloroethane	ND		2.0		ug/L			06/25/19 17:48	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 17:48	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 17:48	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 17:48	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 17:48	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 17:48	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 17:48	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 17:48	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 17:48	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 17:48	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 17:48	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 17:48	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 17:48	1
2-Hexanone	ND		50		ug/L			06/25/19 17:48	1
Iodomethane	ND		100		ug/L			06/25/19 17:48	1
Isobutanol	ND		200		ug/L			06/25/19 17:48	1
Methacrylonitrile	ND		100		ug/L			06/25/19 17:48	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 17:48	1
Methyl methacrylate	ND		10		ug/L			06/25/19 17:48	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 17:48	1
Naphthalene	ND		10		ug/L			06/25/19 17:48	1
Propionitrile	ND		75		ug/L			06/25/19 17:48	1
Styrene	ND		10		ug/L			06/25/19 17:48	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 17:48	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-17
Lab Sample ID: 680-170409-41
Date Collected: 06/12/19 15:15
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 17:48	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 17:48	1
Toluene	ND		2.0		ug/L			06/25/19 17:48	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 17:48	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 17:48	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 17:48	1
Trichloroethene	ND		2.0		ug/L			06/25/19 17:48	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 17:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 17:48	1
Vinyl acetate	ND		100		ug/L			06/25/19 17:48	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 17:48	1
Xylenes	ND		5.0		ug/L			06/25/19 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/25/19 17:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/25/19 17:48*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/25/19 17:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/25/19 17:48*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/20/19 15:50	06/21/19 02:55	1
1,2-Dibromoethane	ND		0.049		ug/L		06/20/19 15:50	06/21/19 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*129*	*p*	*60 - 144*	*06/20/19 15:50*	*06/21/19 02:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:27	1
Sulfide	**1.8**		1.2		mg/L			06/19/19 15:36	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-2
Lab Sample ID: 680-170409-42
Date Collected: 06/12/19 15:35
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 20:55	1
Acrylonitrile	ND		50		ug/L			06/22/19 20:55	1
Benzene	ND		2.0		ug/L			06/22/19 20:55	1
Bromochloromethane	ND		10		ug/L			06/22/19 20:55	1
Bromodichloromethane	ND		10		ug/L			06/22/19 20:55	1
Bromoform	ND		10		ug/L			06/22/19 20:55	1
Bromomethane	ND		10		ug/L			06/22/19 20:55	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 20:55	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 20:55	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 20:55	1
Chlorobenzene	ND		10		ug/L			06/22/19 20:55	1
Chloroethane	ND		2.0		ug/L			06/22/19 20:55	1
Chloroform	ND		2.0		ug/L			06/22/19 20:55	1
Chloromethane	ND		10		ug/L			06/22/19 20:55	1
Dibromochloromethane	ND		10		ug/L			06/22/19 20:55	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 20:55	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 20:55	1
Dibromomethane	ND		10		ug/L			06/22/19 20:55	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 20:55	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 20:55	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 20:55	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 20:55	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 20:55	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:55	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 20:55	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 20:55	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 20:55	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:55	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 20:55	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 20:55	1
2-Hexanone	ND		50		ug/L			06/22/19 20:55	1
Iodomethane	ND		100		ug/L			06/22/19 20:55	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 20:55	1
Styrene	ND		10		ug/L			06/22/19 20:55	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:55	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 20:55	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 20:55	1
Toluene	ND		2.0		ug/L			06/22/19 20:55	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 20:55	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 20:55	1
Trichloroethene	ND		2.0		ug/L			06/22/19 20:55	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 20:55	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 20:55	1
Vinyl acetate	ND		100		ug/L			06/22/19 20:55	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 20:55	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 20:55*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-2
Lab Sample ID: 680-170409-42
Date Collected: 06/12/19 15:35
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		06/22/19 20:55	1
Dibromofluoromethane (Surr)	93		80 - 122		06/22/19 20:55	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/22/19 20:55	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-170409-43

Date Collected: 06/13/19 10:00
Matrix: Water
Date Received: 06/15/19 07:30

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Arsenic	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Barium	**0.033**		0.020		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Beryllium	ND		0.0030		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Cadmium	ND		0.0050		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Chromium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Cobalt	ND		0.040		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Copper	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Lead	ND		0.015		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Nickel	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Selenium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Silver	ND		0.010		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Thallium	ND		0.0020		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Tin	ND		0.050		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Vanadium	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:49	1
Total Zinc	ND		0.020		mg/L		06/27/19 14:16	06/28/19 16:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:47	06/21/19 15:36	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-2
Lab Sample ID: 680-170409-44
Date Collected: 06/13/19 11:30
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 03:08	1
Acetonitrile	ND		200		ug/L			06/26/19 03:08	1
Acrolein	ND		50		ug/L			06/26/19 03:08	1
Acrylonitrile	ND		50		ug/L			06/26/19 03:08	1
Benzene	ND		2.0		ug/L			06/26/19 03:08	1
Bromochloromethane	ND		10		ug/L			06/26/19 03:08	1
Bromodichloromethane	ND		10		ug/L			06/26/19 03:08	1
Bromoform	ND		10		ug/L			06/26/19 03:08	1
Bromomethane	ND		10		ug/L			06/26/19 03:08	1
2-Butanone	ND		100		ug/L			06/26/19 03:08	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 03:08	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 03:08	1
Chlorobenzene	ND		10		ug/L			06/26/19 03:08	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 03:08	1
Chloroethane	ND		2.0		ug/L			06/26/19 03:08	1
Chloroform	ND		2.0		ug/L			06/26/19 03:08	1
Chloromethane	ND		10		ug/L			06/26/19 03:08	1
Allyl chloride	ND		100		ug/L			06/26/19 03:08	1
Dibromochloromethane	ND		10		ug/L			06/26/19 03:08	1
Dibromomethane	ND		10		ug/L			06/26/19 03:08	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 03:08	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 03:08	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 03:08	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 03:08	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 03:08	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 03:08	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 03:08	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 03:08	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 03:08	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 03:08	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 03:08	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 03:08	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 03:08	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 03:08	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:08	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:08	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 03:08	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 03:08	1
2-Hexanone	ND		50		ug/L			06/26/19 03:08	1
Iodomethane	ND		100		ug/L			06/26/19 03:08	1
Isobutanol	ND		200		ug/L			06/26/19 03:08	1
Methacrylonitrile	ND		100		ug/L			06/26/19 03:08	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 03:08	1
Methyl methacrylate	ND		10		ug/L			06/26/19 03:08	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 03:08	1
Naphthalene	ND		10		ug/L			06/26/19 03:08	1
Propionitrile	ND		75		ug/L			06/26/19 03:08	1
Styrene	ND		10		ug/L			06/26/19 03:08	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:08	1

Client Sample ID: AMW-2 **Lab Sample ID: 680-170409-44**
Date Collected: 06/13/19 11:30 **Matrix: Water**
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:08	1
Tetrachloroethene	ND		2.0		ug/L			06/26/19 03:08	1
Toluene	ND		2.0		ug/L			06/26/19 03:08	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 03:08	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 03:08	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 03:08	1
Trichloroethene	ND		2.0		ug/L			06/26/19 03:08	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 03:08	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 03:08	1
Vinyl acetate	ND		100		ug/L			06/26/19 03:08	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 03:08	1
Xylenes	ND		5.0		ug/L			06/26/19 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/26/19 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*06/26/19 03:08*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/26/19 03:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/26/19 03:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Acenaphthylene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Acetophenone	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Acetylaminofluorene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
4-Aminobiphenyl	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Anthracene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
1,4-Benzenediamine	ND		8300		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzo[a]anthracene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzo[a]pyrene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzo[b]fluoranthene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzo[g,h,i]perylene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzo[k]fluoranthene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Benzyl alcohol	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
Bis(2-chloroethoxy)methane	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Bis(2-chloroethyl)ether	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Bis(2-ethylhexyl) phthalate	ND		25		ug/L		06/20/19 14:48	06/29/19 00:36	1
4-Bromophenyl phenyl ether	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Butyl benzyl phthalate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Chloronaphthalene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Chlorophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
4-Chlorophenyl phenyl ether	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Chrysene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Diallate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Dibenz(a,h)anthracene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Dibenzofuran	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
3,3'-Dichlorobenzidine	ND	*	250		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4-Dichlorophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,6-Dichlorophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Diethyl phthalate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-2
Lab Sample ID: 680-170409-44
Date Collected: 06/13/19 11:30
Matrix: Water
Date Received: 06/15/19 07:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethoate	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
7,12-Dimethylbenz(a)anthracene	ND	*	210		ug/L		06/20/19 14:48	06/29/19 00:36	1
3,3'-Dimethylbenzidine	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4-Dimethylphenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Dimethyl phthalate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Di-n-butyl phthalate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
4,6-Dinitro-o-cresol	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4-Dinitrophenol	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4-Dinitrotoluene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,6-Dinitrotoluene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Di-n-octyl phthalate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Di-n-propylnitrosamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Disulfoton	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Ethyl methanesulfonate	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Famphur	ND	*	42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Fluoranthene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Fluorene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Hexachlorobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Hexachlorobutadiene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Hexachlorocyclopentadiene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Hexachloroethane	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Hexachloropropene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Indeno[1,2,3-cd]pyrene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Isophorone	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Isosafrole	ND	*	210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Kepone	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
m-Dinitrobenzene	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Methapyrilene	ND		8300		ug/L		06/20/19 14:48	06/29/19 00:36	1
3-Methylcholanthrene	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Methyl methanesulfonate	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Methylnaphthalene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Methyl parathion	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
m & p - Cresol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
1,4-Naphthoquinone	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
1-Naphthylamine	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Naphthylamine	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Nitroaniline	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
3-Nitroaniline	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Nitroaniline, p-	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Nitrobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
5-Nitro-o-toluidine	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-Nitrophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
4-Nitrophenol	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosodiethylamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosodimethylamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosodi-n-butylamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosodiphenylamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosomethylethylamine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
N-Nitrosopiperidine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1

Client Sample ID: AMW-2
Lab Sample ID: 680-170409-44
Date Collected: 06/13/19 11:30
Matrix: Water
Date Received: 06/15/19 07:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosopyrrolidine	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
o-Cresol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
o,o',o''-Triethylphosphorothioate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
o-Toluidine	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,2'-oxybis[1-chloropropane]	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Parathion	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
p-Chloroaniline	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
p-Chloro-m-cresol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
p-Dimethylamino azobenzene	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Pentachlorobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Pentachloronitrobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Pentachlorophenol	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Phenacetin	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
Phenanthrene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Phenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Phorate	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Pronamide	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Pyrene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
Safrole	ND		210		ug/L		06/20/19 14:48	06/29/19 00:36	1
2-sec-Butyl-4,6-dinitrophenol	ND		29		ug/L		06/20/19 14:48	06/29/19 00:36	1
1,2,4,5-Tetrachlorobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,3,4,6-Tetrachlorophenol	ND		83		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4,5-Trichlorophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
2,4,6-Trichlorophenol	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1
1,3,5-Trinitrobenzene	ND		42		ug/L		06/20/19 14:48	06/29/19 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*46 - 124*	*06/20/19 14:48*	*06/29/19 00:36*	*1*
2-Fluorophenol	*66*		*13 - 113*	*06/20/19 14:48*	*06/29/19 00:36*	*1*
Nitrobenzene-d5	*82*		*36 - 126*	*06/20/19 14:48*	*06/29/19 00:36*	*1*
Phenol-d5	*78*		*17 - 127*	*06/20/19 14:48*	*06/29/19 00:36*	*1*
Terphenyl-d14	*101*		*44 - 149*	*06/20/19 14:48*	*06/29/19 00:36*	*1*
2,4,6-Tribromophenol	*84*		*26 - 150*	*06/20/19 14:48*	*06/29/19 00:36*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.19		ug/L		06/20/19 15:50	06/21/19 03:15	1
1,2-Dibromoethane	ND		0.048		ug/L		06/20/19 15:50	06/21/19 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*121*		*60 - 144*	*06/20/19 15:50*	*06/21/19 03:15*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.034		ug/L		07/10/19 14:27	07/15/19 19:21	1
4,4'-DDE	ND		0.034		ug/L		07/10/19 14:27	07/15/19 19:21	1
BHC-alpha	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
BHC-beta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
Chlordane	ND		0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
BHC-delta	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1

Client Sample ID: AMW-2
Date Collected: 06/13/19 11:30
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-44
Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Endosulfan II	ND		0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Endosulfan sulfate	ND		0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Endrin aldehyde	ND		0.034		ug/L		07/10/19 14:27	07/15/19 19:21	1
Chlorobenzilate	ND		1.7		ug/L		07/10/19 14:27	07/15/19 19:21	1
Heptachlor epoxide	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
Isodrin	ND		0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Methoxychlor	ND	*	0.085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1016	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1221	ND		0.34		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1232	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1242	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1248	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1254	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aroclor 1260	ND		0.17		ug/L		07/10/19 14:27	07/15/19 19:21	1
Toxaphene	ND		0.51		ug/L		07/10/19 14:27	07/15/19 19:21	1
4,4'-DDT	ND		0.034		ug/L		07/10/19 14:27	07/15/19 19:21	1
Aldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
Dieldrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
Endrin	ND		0.017		ug/L		07/10/19 14:27	07/15/19 19:21	1
BHC-gamma	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 19:21	1
Heptachlor	ND		0.0085		ug/L		07/10/19 14:27	07/15/19 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*10 - 130*	*07/10/19 14:27*	*07/15/19 19:21*	*1*
Tetrachloro-m-xylene	*69*		*39 - 130*	*07/10/19 14:27*	*07/15/19 19:21*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		6.0		ug/L		06/19/19 22:28	06/24/19 18:14	1
2,4-D	ND		6.0		ug/L		06/19/19 22:28	06/24/19 18:14	1
2-sec-Butyl-4,6-dinitrophenol	ND	*	1.4		ug/L		06/19/19 22:28	06/24/19 18:14	1
Pentachlorophenol	ND		1.2		ug/L		06/19/19 22:28	06/24/19 18:14	1
2,4,5-TP	ND		12		ug/L		06/19/19 22:28	06/24/19 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*120*		*54 - 150*	*06/19/19 22:28*	*06/24/19 18:14*	*1*
2,4-Dichlorophenylacetic acid	*114*		*54 - 150*	*06/19/19 22:28*	*06/24/19 18:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:28	1
Sulfide	**1.2**		0.81		mg/L			06/19/19 15:38	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-1
Lab Sample ID: 680-170409-45

Date Collected: 06/13/19 12:20
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 21:18	1
Acrylonitrile	ND		50		ug/L			06/22/19 21:18	1
Benzene	ND		2.0		ug/L			06/22/19 21:18	1
Bromochloromethane	ND		10		ug/L			06/22/19 21:18	1
Bromodichloromethane	ND		10		ug/L			06/22/19 21:18	1
Bromoform	ND		10		ug/L			06/22/19 21:18	1
Bromomethane	ND		10		ug/L			06/22/19 21:18	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 21:18	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 21:18	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 21:18	1
Chlorobenzene	ND		10		ug/L			06/22/19 21:18	1
Chloroethane	ND		2.0		ug/L			06/22/19 21:18	1
Chloroform	ND		2.0		ug/L			06/22/19 21:18	1
Chloromethane	ND		10		ug/L			06/22/19 21:18	1
Dibromochloromethane	ND		10		ug/L			06/22/19 21:18	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 21:18	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 21:18	1
Dibromomethane	ND		10		ug/L			06/22/19 21:18	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 21:18	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 21:18	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 21:18	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 21:18	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 21:18	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 21:18	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 21:18	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 21:18	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 21:18	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 21:18	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 21:18	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 21:18	1
2-Hexanone	ND		50		ug/L			06/22/19 21:18	1
Iodomethane	ND		100		ug/L			06/22/19 21:18	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 21:18	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 21:18	1
Styrene	ND		10		ug/L			06/22/19 21:18	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 21:18	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 21:18	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 21:18	1
Toluene	ND		2.0		ug/L			06/22/19 21:18	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 21:18	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 21:18	1
Trichloroethene	ND		2.0		ug/L			06/22/19 21:18	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 21:18	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 21:18	1
Vinyl acetate	ND		100		ug/L			06/22/19 21:18	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 21:18	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/22/19 21:18*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-1
Lab Sample ID: 680-170409-45
Date Collected: 06/13/19 12:20
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		06/22/19 21:18	1
Dibromofluoromethane (Surr)	94		80 - 122		06/22/19 21:18	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/19 21:18	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-5
Date Collected: 06/13/19 12:45
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-46
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 03:31	1
Acetonitrile	ND		200		ug/L			06/26/19 03:31	1
Acrolein	ND		50		ug/L			06/26/19 03:31	1
Acrylonitrile	ND		50		ug/L			06/26/19 03:31	1
Benzene	ND		2.0		ug/L			06/26/19 03:31	1
Bromochloromethane	ND		10		ug/L			06/26/19 03:31	1
Bromodichloromethane	ND		10		ug/L			06/26/19 03:31	1
Bromoform	ND		10		ug/L			06/26/19 03:31	1
Bromomethane	ND		10		ug/L			06/26/19 03:31	1
2-Butanone	ND		100		ug/L			06/26/19 03:31	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 03:31	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 03:31	1
Chlorobenzene	ND		10		ug/L			06/26/19 03:31	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 03:31	1
Chloroethane	ND		2.0		ug/L			06/26/19 03:31	1
Chloroform	ND		2.0		ug/L			06/26/19 03:31	1
Chloromethane	ND		10		ug/L			06/26/19 03:31	1
Allyl chloride	ND		100		ug/L			06/26/19 03:31	1
Dibromochloromethane	ND		10		ug/L			06/26/19 03:31	1
Dibromomethane	ND		10		ug/L			06/26/19 03:31	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 03:31	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 03:31	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 03:31	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 03:31	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 03:31	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 03:31	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 03:31	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 03:31	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 03:31	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 03:31	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 03:31	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 03:31	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 03:31	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 03:31	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:31	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:31	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 03:31	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 03:31	1
2-Hexanone	ND		50		ug/L			06/26/19 03:31	1
Iodomethane	ND		100		ug/L			06/26/19 03:31	1
Isobutanol	ND		200		ug/L			06/26/19 03:31	1
Methacrylonitrile	ND		100		ug/L			06/26/19 03:31	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 03:31	1
Methyl methacrylate	ND		10		ug/L			06/26/19 03:31	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 03:31	1
Naphthalene	ND		10		ug/L			06/26/19 03:31	1
Propionitrile	ND		75		ug/L			06/26/19 03:31	1
Styrene	ND		10		ug/L			06/26/19 03:31	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:31	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-5
Lab Sample ID: 680-170409-46
Date Collected: 06/13/19 12:45
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:31	1
Tetrachloroethene	ND		2.0		ug/L			06/26/19 03:31	1
Toluene	ND		2.0		ug/L			06/26/19 03:31	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 03:31	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 03:31	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 03:31	1
Trichloroethene	ND		2.0		ug/L			06/26/19 03:31	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 03:31	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 03:31	1
Vinyl acetate	ND		100		ug/L			06/26/19 03:31	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 03:31	1
Xylenes	ND		5.0		ug/L			06/26/19 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/26/19 03:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/26/19 03:31*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*06/26/19 03:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/26/19 03:31*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-4
Lab Sample ID: 680-170409-47
Date Collected: 06/13/19 13:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 03:54	1
Acetonitrile	ND		200		ug/L			06/26/19 03:54	1
Acrolein	ND		50		ug/L			06/26/19 03:54	1
Acrylonitrile	ND		50		ug/L			06/26/19 03:54	1
Benzene	ND		2.0		ug/L			06/26/19 03:54	1
Bromochloromethane	ND		10		ug/L			06/26/19 03:54	1
Bromodichloromethane	ND		10		ug/L			06/26/19 03:54	1
Bromoform	ND		10		ug/L			06/26/19 03:54	1
Bromomethane	ND		10		ug/L			06/26/19 03:54	1
2-Butanone	ND		100		ug/L			06/26/19 03:54	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 03:54	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 03:54	1
Chlorobenzene	ND		10		ug/L			06/26/19 03:54	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 03:54	1
Chloroethane	ND		2.0		ug/L			06/26/19 03:54	1
Chloroform	ND		2.0		ug/L			06/26/19 03:54	1
Chloromethane	ND		10		ug/L			06/26/19 03:54	1
Allyl chloride	ND		100		ug/L			06/26/19 03:54	1
Dibromochloromethane	ND		10		ug/L			06/26/19 03:54	1
Dibromomethane	ND		10		ug/L			06/26/19 03:54	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 03:54	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 03:54	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 03:54	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 03:54	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 03:54	1
1,1-Dichloroethane	**2.8**		2.0		ug/L			06/26/19 03:54	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 03:54	1
cis-1,2-Dichloroethene	**19**		2.0		ug/L			06/26/19 03:54	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 03:54	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 03:54	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 03:54	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 03:54	1
2,2-Dichloropropane	ND	*	2.0		ug/L			06/26/19 03:54	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 03:54	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:54	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 03:54	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 03:54	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 03:54	1
2-Hexanone	ND		50		ug/L			06/26/19 03:54	1
Iodomethane	ND		100		ug/L			06/26/19 03:54	1
Isobutanol	ND		200		ug/L			06/26/19 03:54	1
Methacrylonitrile	ND		100		ug/L			06/26/19 03:54	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 03:54	1
Methyl methacrylate	ND		10		ug/L			06/26/19 03:54	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 03:54	1
Naphthalene	ND		10		ug/L			06/26/19 03:54	1
Propionitrile	ND		75		ug/L			06/26/19 03:54	1
Styrene	ND		10		ug/L			06/26/19 03:54	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:54	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-4
Lab Sample ID: 680-170409-47
Date Collected: 06/13/19 13:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 03:54	1
Tetrachloroethene	**6.2**		2.0		ug/L			06/26/19 03:54	1
Toluene	ND		2.0		ug/L			06/26/19 03:54	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 03:54	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 03:54	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 03:54	1
Trichloroethene	**3.9**		2.0		ug/L			06/26/19 03:54	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 03:54	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 03:54	1
Vinyl acetate	ND		100		ug/L			06/26/19 03:54	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 03:54	1
Xylenes	ND		5.0		ug/L			06/26/19 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/26/19 03:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/26/19 03:54*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*06/26/19 03:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/26/19 03:54*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: Field Blank 1

Date Collected: 06/13/19 13:10
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-48

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 21:41	1
Acrylonitrile	ND		50		ug/L			06/22/19 21:41	1
Benzene	ND		2.0		ug/L			06/22/19 21:41	1
Bromochloromethane	ND		10		ug/L			06/22/19 21:41	1
Bromodichloromethane	ND		10		ug/L			06/22/19 21:41	1
Bromoform	ND		10		ug/L			06/22/19 21:41	1
Bromomethane	ND		10		ug/L			06/22/19 21:41	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 21:41	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 21:41	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 21:41	1
Chlorobenzene	ND		10		ug/L			06/22/19 21:41	1
Chloroethane	ND		2.0		ug/L			06/22/19 21:41	1
Chloroform	ND		2.0		ug/L			06/22/19 21:41	1
Chloromethane	ND		10		ug/L			06/22/19 21:41	1
Dibromochloromethane	ND		10		ug/L			06/22/19 21:41	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 21:41	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 21:41	1
Dibromomethane	ND		10		ug/L			06/22/19 21:41	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 21:41	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 21:41	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 21:41	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 21:41	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 21:41	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 21:41	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 21:41	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 21:41	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 21:41	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 21:41	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 21:41	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 21:41	1
2-Hexanone	ND		50		ug/L			06/22/19 21:41	1
Iodomethane	ND		100		ug/L			06/22/19 21:41	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 21:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 21:41	1
Styrene	ND		10		ug/L			06/22/19 21:41	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 21:41	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 21:41	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 21:41	1
Toluene	ND		2.0		ug/L			06/22/19 21:41	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 21:41	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 21:41	1
Trichloroethene	ND		2.0		ug/L			06/22/19 21:41	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 21:41	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 21:41	1
Vinyl acetate	ND		100		ug/L			06/22/19 21:41	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 21:41	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 21:41*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: Field Blank 1
Lab Sample ID: 680-170409-48
Date Collected: 06/13/19 13:10
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*06/22/19 21:41*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/22/19 21:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/19 21:41*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:07	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 19:07	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWA-3A
Lab Sample ID: 680-170409-49

Date Collected: 06/13/19 14:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 22:04	1
Acrylonitrile	ND		50		ug/L			06/22/19 22:04	1
Benzene	ND		2.0		ug/L			06/22/19 22:04	1
Bromochloromethane	ND		10		ug/L			06/22/19 22:04	1
Bromodichloromethane	ND		10		ug/L			06/22/19 22:04	1
Bromoform	ND		10		ug/L			06/22/19 22:04	1
Bromomethane	ND		10		ug/L			06/22/19 22:04	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 22:04	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 22:04	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 22:04	1
Chlorobenzene	ND		10		ug/L			06/22/19 22:04	1
Chloroethane	ND		2.0		ug/L			06/22/19 22:04	1
Chloroform	ND		2.0		ug/L			06/22/19 22:04	1
Chloromethane	ND		10		ug/L			06/22/19 22:04	1
Dibromochloromethane	ND		10		ug/L			06/22/19 22:04	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 22:04	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 22:04	1
Dibromomethane	ND		10		ug/L			06/22/19 22:04	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 22:04	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 22:04	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 22:04	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 22:04	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 22:04	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 22:04	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 22:04	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 22:04	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 22:04	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 22:04	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 22:04	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 22:04	1
2-Hexanone	ND		50		ug/L			06/22/19 22:04	1
Iodomethane	ND		100		ug/L			06/22/19 22:04	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 22:04	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 22:04	1
Styrene	ND		10		ug/L			06/22/19 22:04	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 22:04	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 22:04	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 22:04	1
Toluene	ND		2.0		ug/L			06/22/19 22:04	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 22:04	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 22:04	1
Trichloroethene	ND		2.0		ug/L			06/22/19 22:04	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 22:04	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 22:04	1
Vinyl acetate	ND		100		ug/L			06/22/19 22:04	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 22:04	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/22/19 22:04*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWA-3A
Lab Sample ID: 680-170409-49
Date Collected: 06/13/19 14:05
Matrix: Water
Date Received: 06/15/19 07:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*06/22/19 22:04*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*06/22/19 22:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/19 22:04*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:22	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:22	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-172164-1
Date Collected: 07/24/19 17:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Acenaphthylene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Acetophenone	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Acetylaminofluorene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
4-Aminobiphenyl	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Anthracene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
1,4-Benzenediamine	ND		8200		ug/L		07/30/19 16:14	08/06/19 16:44	1
Benzo[a]anthracene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Benzo[a]pyrene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Benzo[b]fluoranthene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Benzo[g,h,i]perylene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Benzo[k]fluoranthene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Benzyl alcohol	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
Bis(2-chloroethoxy)methane	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Bis(2-chloroethyl)ether	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Bis(2-ethylhexyl) phthalate	**49**		25		ug/L		07/30/19 16:14	08/03/19 16:43	1
4-Bromophenyl phenyl ether	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Butyl benzyl phthalate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Chloronaphthalene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Chlorophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
4-Chlorophenyl phenyl ether	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Chrysene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Diallate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Dibenz(a,h)anthracene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Dibenzofuran	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
3,3'-Dichlorobenzidine	ND	*	250		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4-Dichlorophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,6-Dichlorophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Diethyl phthalate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Dimethoate	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
3,3'-Dimethylbenzidine	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4-Dimethylphenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Dimethyl phthalate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Di-n-butyl phthalate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
4,6-Dinitro-o-cresol	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4-Dinitrophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4-Dinitrotoluene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,6-Dinitrotoluene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Di-n-octyl phthalate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Di-n-propylnitrosamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Disulfoton	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Ethyl methanesulfonate	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Famphur	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Fluoranthene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Fluorene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Hexachlorobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Hexachlorobutadiene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Hexachlorocyclopentadiene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-172164-1
Date Collected: 07/24/19 17:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Hexachloropropene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Indeno[1,2,3-cd]pyrene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Isophorone	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Isosafrole	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Kepone	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
m-Dinitrobenzene	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Methapyrilene	ND		8200		ug/L		07/30/19 16:14	08/03/19 16:43	1
3-Methylcholanthrene	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Methyl methanesulfonate	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Methylnaphthalene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Methyl parathion	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
m & p - Cresol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
1,4-Naphthoquinone	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
1-Naphthylamine	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Naphthylamine	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Nitroaniline	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
3-Nitroaniline	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Nitroaniline, p-	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Nitrobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
5-Nitro-o-toluidine	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-Nitrophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
4-Nitrophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosodiethylamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosodimethylamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosodi-n-butylamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosodiphenylamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosomethylethylamine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosopiperidine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
N-Nitrosopyrrolidine	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
o-Cresol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
o,o',o''-Triethylphosphorothioate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
o-Toluidine	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,2'-oxybis[1-chloropropane]	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Parathion	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
p-Chloroaniline	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
p-Chloro-m-cresol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
p-Dimethylamino azobenzene	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Pentachlorobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Pentachloronitrobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Pentachlorophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Phenacetin	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
Phenanthrene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Phenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Phorate	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Pronamide	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Pyrene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
Safrole	ND		200		ug/L		07/30/19 16:14	08/03/19 16:43	1
2-sec-Butyl-4,6-dinitrophenol	ND		29		ug/L		07/30/19 16:14	08/03/19 16:43	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-172164-1
Date Collected: 07/24/19 17:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,3,4,6-Tetrachlorophenol	ND		82		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4,5-Trichlorophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
2,4,6-Trichlorophenol	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1
1,3,5-Trinitrobenzene	ND		41		ug/L		07/30/19 16:14	08/03/19 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*46 - 124*	*07/30/19 16:14*	*08/03/19 16:43*	*1*
2-Fluorophenol	*62*		*13 - 113*	*07/30/19 16:14*	*08/03/19 16:43*	*1*
Nitrobenzene-d5	*87*		*36 - 126*	*07/30/19 16:14*	*08/03/19 16:43*	*1*
Phenol-d5	*85*		*17 - 127*	*07/30/19 16:14*	*08/03/19 16:43*	*1*
Terphenyl-d14	*116*		*44 - 149*	*07/30/19 16:14*	*08/03/19 16:43*	*1*
2,4,6-Tribromophenol	*92*		*26 - 150*	*07/30/19 16:14*	*08/03/19 16:43*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-8R
Date Collected: 07/24/19 17:50
Date Received: 07/26/19 06:55

Lab Sample ID: 680-172164-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Acenaphthylene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Acetophenone	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Acetylaminofluorene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
4-Aminobiphenyl	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Anthracene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
1,4-Benzenediamine	ND		7800		ug/L		07/30/19 16:14	08/06/19 17:09	1
Benzo[a]anthracene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Benzo[a]pyrene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Benzo[b]fluoranthene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Benzo[g,h,i]perylene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Benzo[k]fluoranthene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Benzyl alcohol	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
Bis(2-chloroethoxy)methane	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Bis(2-chloroethyl)ether	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Bis(2-ethylhexyl) phthalate	ND		23		ug/L		07/30/19 16:14	08/03/19 17:05	1
4-Bromophenyl phenyl ether	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Butyl benzyl phthalate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Chloronaphthalene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Chlorophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
4-Chlorophenyl phenyl ether	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Chrysene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Diallate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Dibenz(a,h)anthracene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Dibenzofuran	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
3,3'-Dichlorobenzidine	ND	*	230		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4-Dichlorophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,6-Dichlorophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Diethyl phthalate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Dimethoate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
7,12-Dimethylbenz(a)anthracene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
3,3'-Dimethylbenzidine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4-Dimethylphenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Dimethyl phthalate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Di-n-butyl phthalate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
4,6-Dinitro-o-cresol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4-Dinitrophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4-Dinitrotoluene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,6-Dinitrotoluene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Di-n-octyl phthalate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Di-n-propylnitrosamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Disulfoton	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Ethyl methanesulfonate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Famphur	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Fluoranthene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Fluorene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Hexachlorobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Hexachlorobutadiene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Hexachlorocyclopentadiene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Client Sample ID: GWC-8R
Date Collected: 07/24/19 17:50
Date Received: 07/26/19 06:55

Lab Sample ID: 680-172164-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Hexachloropropene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Indeno[1,2,3-cd]pyrene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Isophorone	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Isosafrole	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Kepone	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
m-Dinitrobenzene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Methapyrilene	ND		7800		ug/L		07/30/19 16:14	08/03/19 17:05	1
3-Methylcholanthrene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Methyl methanesulfonate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Methylnaphthalene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Methyl parathion	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
m & p - Cresol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
1,4-Naphthoquinone	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
1-Naphthylamine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Naphthylamine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Nitroaniline	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
3-Nitroaniline	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Nitroaniline, p-	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Nitrobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
5-Nitro-o-toluidine	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-Nitrophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
4-Nitrophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosodiethylamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosodimethylamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosodi-n-butylamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosodiphenylamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosomethylethylamine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosopiperidine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
N-Nitrosopyrrolidine	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
o-Cresol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
o,o',o''-Triethylphosphorothioate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
o-Toluidine	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,2'-oxybis[1-chloropropane]	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Parathion	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
p-Chloroaniline	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
p-Chloro-m-cresol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
p-Dimethylamino azobenzene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Pentachlorobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Pentachloronitrobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Pentachlorophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Phenacetin	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
Phenanthrene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Phenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Phorate	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Pronamide	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Pyrene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
Safrole	ND		190		ug/L		07/30/19 16:14	08/03/19 17:05	1
2-sec-Butyl-4,6-dinitrophenol	ND		27		ug/L		07/30/19 16:14	08/03/19 17:05	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8R
Lab Sample ID: 680-172164-2
Date Collected: 07/24/19 17:50
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,3,4,6-Tetrachlorophenol	ND		78		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4,5-Trichlorophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
2,4,6-Trichlorophenol	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1
1,3,5-Trinitrobenzene	ND		39		ug/L		07/30/19 16:14	08/03/19 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*46 - 124*	*07/30/19 16:14*	*08/03/19 17:05*	*1*
2-Fluorophenol	*80*		*13 - 113*	*07/30/19 16:14*	*08/03/19 17:05*	*1*
Nitrobenzene-d5	*90*		*36 - 126*	*07/30/19 16:14*	*08/03/19 17:05*	*1*
Phenol-d5	*90*		*17 - 127*	*07/30/19 16:14*	*08/03/19 17:05*	*1*
Terphenyl-d14	*115*		*44 - 149*	*07/30/19 16:14*	*08/03/19 17:05*	*1*
2,4,6-Tribromophenol	*81*		*26 - 150*	*07/30/19 16:14*	*08/03/19 17:05*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14R
Lab Sample ID: 680-172164-3
Date Collected: 07/24/19 15:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Acenaphthylene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Acetophenone	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Acetylaminofluorene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
4-Aminobiphenyl	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Anthracene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
1,4-Benzenediamine	ND		7700		ug/L		07/30/19 16:14	08/06/19 17:35	1
Benzo[a]anthracene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Benzo[a]pyrene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Benzo[b]fluoranthene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Benzo[g,h,i]perylene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Benzo[k]fluoranthene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Benzyl alcohol	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
Bis(2-chloroethoxy)methane	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Bis(2-chloroethyl)ether	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Bis(2-ethylhexyl) phthalate	ND		23		ug/L		07/30/19 16:14	08/03/19 17:26	1
4-Bromophenyl phenyl ether	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Butyl benzyl phthalate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Chloronaphthalene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Chlorophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
4-Chlorophenyl phenyl ether	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Chrysene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Diallate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Dibenz(a,h)anthracene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Dibenzofuran	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
3,3'-Dichlorobenzidine	ND	*	230		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4-Dichlorophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,6-Dichlorophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Diethyl phthalate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Dimethoate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
7,12-Dimethylbenz(a)anthracene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
3,3'-Dimethylbenzidine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4-Dimethylphenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Dimethyl phthalate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Di-n-butyl phthalate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
4,6-Dinitro-o-cresol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4-Dinitrophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4-Dinitrotoluene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,6-Dinitrotoluene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Di-n-octyl phthalate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Di-n-propylnitrosamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Disulfoton	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Ethyl methanesulfonate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Famphur	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Fluoranthene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Fluorene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Hexachlorobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Hexachlorobutadiene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Hexachlorocyclopentadiene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14R
Lab Sample ID: 680-172164-3
Date Collected: 07/24/19 15:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Hexachloropropene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Indeno[1,2,3-cd]pyrene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Isophorone	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Isosafrole	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Kepone	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
m-Dinitrobenzene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Methapyrilene	ND		7700		ug/L		07/30/19 16:14	08/03/19 17:26	1
3-Methylcholanthrene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Methyl methanesulfonate	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Methylnaphthalene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Methyl parathion	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
m & p - Cresol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
1,4-Naphthoquinone	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
1-Naphthylamine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Naphthylamine	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Nitroaniline	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
3-Nitroaniline	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Nitroaniline, p-	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Nitrobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
5-Nitro-o-toluidine	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-Nitrophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
4-Nitrophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosodiethylamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosodimethylamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosodi-n-butylamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosodiphenylamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosomethylethylamine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosopiperidine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
N-Nitrosopyrrolidine	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
o-Cresol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
o,o',o''-Triethylphosphorothioate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
o-Toluidine	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,2'-oxybis[1-chloropropane]	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Parathion	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
p-Chloroaniline	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
p-Chloro-m-cresol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
p-Dimethylamino azobenzene	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Pentachlorobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Pentachloronitrobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Pentachlorophenol	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Phenacetin	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
Phenanthrene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Phenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Phorate	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Pronamide	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Pyrene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
Safrole	ND		190		ug/L		07/30/19 16:14	08/03/19 17:26	1
2-sec-Butyl-4,6-dinitrophenol	ND		27		ug/L		07/30/19 16:14	08/03/19 17:26	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14R
Lab Sample ID: 680-172164-3
Date Collected: 07/24/19 15:30
Matrix: Water
Date Received: 07/26/19 06:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,3,4,6-Tetrachlorophenol	ND		77		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4,5-Trichlorophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
2,4,6-Trichlorophenol	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1
1,3,5-Trinitrobenzene	ND		38		ug/L		07/30/19 16:14	08/03/19 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*46 - 124*	*07/30/19 16:14*	*08/03/19 17:26*	*1*
2-Fluorophenol	*69*		*13 - 113*	*07/30/19 16:14*	*08/03/19 17:26*	*1*
Nitrobenzene-d5	*96*		*36 - 126*	*07/30/19 16:14*	*08/03/19 17:26*	*1*
Phenol-d5	*91*		*17 - 127*	*07/30/19 16:14*	*08/03/19 17:26*	*1*
Terphenyl-d14	*129*		*44 - 149*	*07/30/19 16:14*	*08/03/19 17:26*	*1*
2,4,6-Tribromophenol	*77*		*26 - 150*	*07/30/19 16:14*	*08/03/19 17:26*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-172164-4
Date Collected: 07/24/19 15:00
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:37	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-172164-7
Date Collected: 07/24/19 13:00
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:37	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-172164-8
Date Collected: 07/24/19 12:30
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:38	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-14A
Lab Sample ID: 680-172164-9
Date Collected: 07/24/19 15:20
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:38	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-172164-10
Date Collected: 07/24/19 15:40
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:38	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-172164-11
Date Collected: 07/24/19 16:25
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:39	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-172164-12
Date Collected: 07/24/19 13:35
Matrix: Water
Date Received: 07/26/19 06:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:39	1

Client Sample Results

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1
Date Collected: 07/24/19 13:55
Date Received: 07/26/19 06:55

Lab Sample ID: 680-172164-13
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:39	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

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

Lab Sample ID: MB 680-574919/11
Matrix: Water
Analysis Batch: 574919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 00:31	1
Acetonitrile	ND		200		ug/L			06/20/19 00:31	1
Acrolein	ND		50		ug/L			06/20/19 00:31	1
Acrylonitrile	ND		50		ug/L			06/20/19 00:31	1
Benzene	ND		2.0		ug/L			06/20/19 00:31	1
Bromochloromethane	ND		10		ug/L			06/20/19 00:31	1
Bromodichloromethane	ND		10		ug/L			06/20/19 00:31	1
Bromoform	ND		10		ug/L			06/20/19 00:31	1
Bromomethane	ND		10		ug/L			06/20/19 00:31	1
2-Butanone	ND		100		ug/L			06/20/19 00:31	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 00:31	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 00:31	1
Chlorobenzene	ND		10		ug/L			06/20/19 00:31	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 00:31	1
Chloroethane	ND		2.0		ug/L			06/20/19 00:31	1
Chloroform	ND		2.0		ug/L			06/20/19 00:31	1
Chloromethane	ND		10		ug/L			06/20/19 00:31	1
Allyl chloride	ND		100		ug/L			06/20/19 00:31	1
Dibromochloromethane	ND		10		ug/L			06/20/19 00:31	1
Dibromomethane	ND		10		ug/L			06/20/19 00:31	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 00:31	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 00:31	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 00:31	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 00:31	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 00:31	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 00:31	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 00:31	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 00:31	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 00:31	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 00:31	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 00:31	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 00:31	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 00:31	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 00:31	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 00:31	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 00:31	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 00:31	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 00:31	1
2-Hexanone	ND		50		ug/L			06/20/19 00:31	1
Iodomethane	ND		100		ug/L			06/20/19 00:31	1
Isobutanol	ND		200		ug/L			06/20/19 00:31	1
Methacrylonitrile	ND		100		ug/L			06/20/19 00:31	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 00:31	1
Methyl methacrylate	ND		10		ug/L			06/20/19 00:31	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 00:31	1
Naphthalene	ND		10		ug/L			06/20/19 00:31	1
Propionitrile	ND		75		ug/L			06/20/19 00:31	1
Styrene	ND		10		ug/L			06/20/19 00:31	1

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

Lab Sample ID: MB 680-574919/11
Matrix: Water
Analysis Batch: 574919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 00:31	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 00:31	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 00:31	1
Toluene	ND		2.0		ug/L			06/20/19 00:31	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 00:31	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 00:31	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 00:31	1
Trichloroethene	ND		2.0		ug/L			06/20/19 00:31	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 00:31	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 00:31	1
Vinyl acetate	ND		100		ug/L			06/20/19 00:31	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 00:31	1
Xylenes	ND		5.0		ug/L			06/20/19 00:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/20/19 00:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*06/20/19 00:31*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 122*		*06/20/19 00:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/20/19 00:31*	*1*

Lab Sample ID: LCS 680-574919/5
Matrix: Water
Analysis Batch: 574919

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	252		ug/L		101	70 - 135
Acrolein	1000	1150		ug/L		115	45 - 164
Acrylonitrile	500	504		ug/L		101	80 - 123
Benzene	50.0	50.1		ug/L		100	80 - 120
Bromochloromethane	50.0	49.7		ug/L		99	80 - 120
Bromodichloromethane	50.0	51.9		ug/L		104	80 - 120
Bromoform	50.0	55.1		ug/L		110	74 - 126
Bromomethane	50.0	55.6		ug/L		111	62 - 130
2-Butanone	250	275		ug/L		110	80 - 131
Carbon disulfide	50.0	52.1		ug/L		104	80 - 120
Carbon tetrachloride	50.0	52.3		ug/L		105	76 - 123
Chlorobenzene	50.0	51.2		ug/L		102	80 - 120
Chloroethane	50.0	51.5		ug/L		103	66 - 135
Chloroform	50.0	51.1		ug/L		102	80 - 120
Chloromethane	50.0	52.3		ug/L		105	69 - 131
Allyl chloride	50.0	54.5	J	ug/L		109	70 - 129
Dibromochloromethane	50.0	53.5		ug/L		107	80 - 121
Dibromomethane	50.0	50.3		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120
trans-1,4-Dichloro-2-butene	50.0	53.3	J	ug/L		107	68 - 125
Dichlorodifluoromethane	50.0	58.1		ug/L		116	47 - 155

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

Lab Sample ID: LCS 680-574919/5
Matrix: Water
Analysis Batch: 574919

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	49.4		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	55.7		ug/L		111	76 - 120
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	50.4		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	42.6		ug/L		85	76 - 126
1,1-Dichloropropene	50.0	51.0		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	47.5		ug/L		95	80 - 120
Ethylbenzene	50.0	52.5		ug/L		105	80 - 120
Ethyl methacrylate	50.0	53.5		ug/L		107	80 - 125
2-Hexanone	250	274		ug/L		109	74 - 127
Iodomethane	50.0	54.4	J	ug/L		109	52 - 142
Isobutanol	1250	1360		ug/L		109	64 - 142
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	269		ug/L		108	76 - 124
Naphthalene	50.0	51.3		ug/L		103	59 - 140
Styrene	50.0	52.4		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	50.0	53.1		ug/L		106	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 120
Tetrachloroethene	50.0	53.1		ug/L		106	80 - 121
Toluene	50.0	52.3		ug/L		105	80 - 113
1,2,4-Trichlorobenzene	50.0	50.4		ug/L		101	68 - 128
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	52.5		ug/L		105	80 - 120
Trichloroethene	50.0	53.1		ug/L		106	80 - 120
Trichlorofluoromethane	50.0	51.3		ug/L		103	60 - 141
1,2,3-Trichloropropane	50.0	53.6		ug/L		107	80 - 123
Vinyl acetate	100	105		ug/L		105	67 - 135
Vinyl chloride	50.0	54.2		ug/L		108	71 - 128
Xylenes	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 680-574919/6
Matrix: Water
Analysis Batch: 574919

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	259		ug/L		104	70 - 135	3	30
Acrolein	1000	1140		ug/L		114	45 - 164	1	30
Acrylonitrile	500	515		ug/L		103	80 - 123	2	20

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

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

Lab Sample ID: LCSD 680-574919/6
Matrix: Water
Analysis Batch: 574919

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.5		ug/L		103	80 - 120	3	20
Bromochloromethane	50.0	51.3		ug/L		103	80 - 120	3	20
Bromodichloromethane	50.0	53.2		ug/L		106	80 - 120	2	20
Bromoform	50.0	55.9		ug/L		112	74 - 126	1	20
Bromomethane	50.0	56.3		ug/L		113	62 - 130	1	20
2-Butanone	250	283		ug/L		113	80 - 131	3	20
Carbon disulfide	50.0	53.3		ug/L		107	80 - 120	2	20
Carbon tetrachloride	50.0	53.8		ug/L		108	76 - 123	3	20
Chlorobenzene	50.0	52.6		ug/L		105	80 - 120	3	20
Chloroethane	50.0	53.3		ug/L		107	66 - 135	3	20
Chloroform	50.0	51.8		ug/L		104	80 - 120	1	20
Chloromethane	50.0	53.9		ug/L		108	69 - 131	3	30
Allyl chloride	50.0	54.9	J	ug/L		110	70 - 129	1	20
Dibromochloromethane	50.0	54.5		ug/L		109	80 - 121	2	20
Dibromomethane	50.0	52.1		ug/L		104	80 - 120	4	20
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120	1	20
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 120	4	20
1,4-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120	1	20
trans-1,4-Dichloro-2-butene	50.0	54.1	J	ug/L		108	68 - 125	1	30
Dichlorodifluoromethane	50.0	62.6		ug/L		125	47 - 155	7	40
1,1-Dichloroethane	50.0	52.7		ug/L		105	80 - 120	4	20
1,2-Dichloroethane	50.0	51.5		ug/L		103	80 - 120	4	50
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 120	4	20
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	80 - 120	2	20
1,1-Dichloroethene	50.0	58.3		ug/L		117	76 - 120	5	20
1,2-Dichloropropane	50.0	54.0		ug/L		108	80 - 120	4	20
1,3-Dichloropropane	50.0	51.6		ug/L		103	80 - 120	2	20
2,2-Dichloropropane	50.0	44.0		ug/L		88	76 - 126	3	20
1,1-Dichloropropene	50.0	54.3		ug/L		109	80 - 120	6	20
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	80 - 120	2	30
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120	1	20
Ethyl methacrylate	50.0	53.4		ug/L		107	80 - 125	0	20
2-Hexanone	250	276		ug/L		110	74 - 127	1	20
Iodomethane	50.0	55.3	J	ug/L		111	52 - 142	2	30
Isobutanol	1250	1430		ug/L		114	64 - 142	4	40
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120	0	20
4-Methyl-2-pentanone	250	270		ug/L		108	76 - 124	0	20
Naphthalene	50.0	52.0		ug/L		104	59 - 140	1	20
Styrene	50.0	53.0		ug/L		106	80 - 120	1	20
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/L		102	80 - 120	2	20
Tetrachloroethene	50.0	56.5		ug/L		113	80 - 121	6	20
Toluene	50.0	52.6		ug/L		105	80 - 113	1	20
1,2,4-Trichlorobenzene	50.0	51.8		ug/L		104	68 - 128	3	20
1,1,1-Trichloroethane	50.0	54.6		ug/L		109	80 - 120	3	20
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	80 - 120	1	20
Trichloroethene	50.0	54.6		ug/L		109	80 - 120	3	20
Trichlorofluoromethane	50.0	52.7		ug/L		105	60 - 141	3	20

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

Lab Sample ID: LCSD 680-574919/6
Matrix: Water
Analysis Batch: 574919

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			50.0	53.9		ug/L		108	80 - 123	1	30
Vinyl acetate			100	104		ug/L		104	67 - 135	1	20
Vinyl chloride			50.0	55.4		ug/L		111	71 - 128	2	20
Xylenes			100	104		ug/L		104	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-574996/9
Matrix: Water
Analysis Batch: 574996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 11:31	1
Acrylonitrile	ND		50		ug/L			06/20/19 11:31	1
Benzene	ND		2.0		ug/L			06/20/19 11:31	1
Bromochloromethane	ND		10		ug/L			06/20/19 11:31	1
Bromodichloromethane	ND		10		ug/L			06/20/19 11:31	1
Bromoform	ND		10		ug/L			06/20/19 11:31	1
Bromomethane	ND		10		ug/L			06/20/19 11:31	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 11:31	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 11:31	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 11:31	1
Chlorobenzene	ND		10		ug/L			06/20/19 11:31	1
Chloroethane	ND		2.0		ug/L			06/20/19 11:31	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 11:31	1
Chloroform	ND		2.0		ug/L			06/20/19 11:31	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 11:31	1
Chloromethane	ND		10		ug/L			06/20/19 11:31	1
Dibromochloromethane	ND		10		ug/L			06/20/19 11:31	1
Dibromomethane	ND		10		ug/L			06/20/19 11:31	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 11:31	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 11:31	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 11:31	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 11:31	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 11:31	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 11:31	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 11:31	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 11:31	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 11:31	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 11:31	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 11:31	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 11:31	1
2-Hexanone	ND		50		ug/L			06/20/19 11:31	1
Iodomethane	ND		100		ug/L			06/20/19 11:31	1

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

Lab Sample ID: MB 680-574996/9
Matrix: Water
Analysis Batch: 574996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			06/20/19 11:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 11:31	1
Styrene	ND		10		ug/L			06/20/19 11:31	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 11:31	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 11:31	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 11:31	1
Toluene	ND		2.0		ug/L			06/20/19 11:31	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 11:31	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 11:31	1
Trichloroethene	ND		2.0		ug/L			06/20/19 11:31	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 11:31	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 11:31	1
Vinyl acetate	ND		100		ug/L			06/20/19 11:31	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 11:31	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 11:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*06/20/19 11:31*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*06/20/19 11:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/20/19 11:31*	*1*

Lab Sample ID: LCS 680-574996/3
Matrix: Water
Analysis Batch: 574996

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	249		ug/L		100	70 - 135
Acrylonitrile	500	482		ug/L		96	80 - 123
Benzene	50.0	49.1		ug/L		98	80 - 120
Bromochloromethane	50.0	46.7		ug/L		93	80 - 120
Bromodichloromethane	50.0	51.4		ug/L		103	80 - 120
Bromoform	50.0	50.5		ug/L		101	74 - 126
Bromomethane	50.0	55.4		ug/L		111	62 - 130
2-Butanone (MEK)	250	237		ug/L		95	80 - 131
Carbon disulfide	50.0	49.4		ug/L		99	80 - 120
Carbon tetrachloride	50.0	49.9		ug/L		100	76 - 123
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120
Chloroethane	50.0	52.8		ug/L		106	66 - 135
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	71 - 134
Chloroform	50.0	50.0		ug/L		100	80 - 120
1,2-Dibromoethane	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	53.4		ug/L		107	69 - 131
Dibromochloromethane	50.0	50.6		ug/L		101	80 - 121
Dibromomethane	50.0	51.1		ug/L		102	80 - 120
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	50.0	48.1	J	ug/L		96	68 - 125

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

Lab Sample ID: LCS 680-574996/3
Matrix: Water
Analysis Batch: 574996

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	48.5		ug/L		97	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	53.5		ug/L		107	76 - 120
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	80 - 120
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120
2-Hexanone	250	237		ug/L		95	74 - 127
Iodomethane	50.0	52.8	J	ug/L		106	52 - 142
Methylene Chloride	50.0	48.1		ug/L		96	80 - 120
4-Methyl-2-pentanone (MIBK)	250	233		ug/L		93	76 - 124
Styrene	50.0	49.9		ug/L		100	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/L		98	80 - 121
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	80 - 120
Tetrachloroethene	50.0	51.4		ug/L		103	80 - 121
Toluene	50.0	49.6		ug/L		99	80 - 113
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	80 - 120
Trichloroethene	50.0	50.8		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	55.9		ug/L		112	60 - 141
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	80 - 123
Vinyl acetate	100	111		ug/L		111	67 - 135
Vinyl chloride	50.0	56.8		ug/L		114	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 680-574996/4
Matrix: Water
Analysis Batch: 574996

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	239		ug/L		96	70 - 135	4	30
Acrylonitrile	500	463		ug/L		93	80 - 123	4	20
Benzene	50.0	48.8		ug/L		98	80 - 120	1	20
Bromochloromethane	50.0	45.0		ug/L		90	80 - 120	4	20
Bromodichloromethane	50.0	49.4		ug/L		99	80 - 120	4	20
Bromoform	50.0	48.9		ug/L		98	74 - 126	3	20
Bromomethane	50.0	56.3		ug/L		113	62 - 130	2	20
2-Butanone (MEK)	250	228		ug/L		91	80 - 131	4	20
Carbon disulfide	50.0	50.2		ug/L		100	80 - 120	2	20
Carbon tetrachloride	50.0	50.9		ug/L		102	76 - 123	2	20

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

Lab Sample ID: LCSD 680-574996/4
Matrix: Water
Analysis Batch: 574996

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.3		ug/L		99	80 - 120	0	20
Chloroethane			50.0	52.9		ug/L		106	66 - 135	0	20
1,2-Dibromo-3-Chloropropane			50.0	48.8		ug/L		98	71 - 134	5	20
Chloroform			50.0	49.4		ug/L		99	80 - 120	1	20
1,2-Dibromoethane			50.0	47.7		ug/L		95	80 - 120	3	20
Chloromethane			50.0	54.5		ug/L		109	69 - 131	2	30
Dibromochloromethane			50.0	49.4		ug/L		99	80 - 121	2	20
Dibromomethane			50.0	50.1		ug/L		100	80 - 120	2	20
1,2-Dichlorobenzene			50.0	48.2		ug/L		96	80 - 120	2	20
1,4-Dichlorobenzene			50.0	49.6		ug/L		99	80 - 120	1	20
trans-1,4-Dichloro-2-butene			50.0	46.5	J	ug/L		93	68 - 125	3	30
1,1-Dichloroethane			50.0	49.7		ug/L		99	80 - 120	0	20
1,2-Dichloroethane			50.0	47.0		ug/L		94	80 - 120	3	50
cis-1,2-Dichloroethene			50.0	51.0		ug/L		102	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	51.7		ug/L		103	80 - 120	0	20
1,1-Dichloroethene			50.0	54.6		ug/L		109	76 - 120	2	20
1,2-Dichloropropane			50.0	49.2		ug/L		98	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	50.1		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	45.3		ug/L		91	80 - 120	4	30
Ethylbenzene			50.0	50.0		ug/L		100	80 - 120	1	20
2-Hexanone			250	230		ug/L		92	74 - 127	3	20
Iodomethane			50.0	52.5	J	ug/L		105	52 - 142	1	30
Methylene Chloride			50.0	47.9		ug/L		96	80 - 120	0	20
4-Methyl-2-pentanone (MIBK)			250	226		ug/L		90	76 - 124	3	20
Styrene			50.0	50.2		ug/L		100	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	48.7		ug/L		97	80 - 121	1	20
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	80 - 120	1	20
Tetrachloroethene			50.0	52.5		ug/L		105	80 - 121	2	20
Toluene			50.0	49.3		ug/L		99	80 - 113	1	20
1,1,1-Trichloroethane			50.0	51.0		ug/L		102	80 - 120	0	20
1,1,2-Trichloroethane			50.0	47.8		ug/L		96	80 - 120	3	20
Trichloroethene			50.0	51.4		ug/L		103	80 - 120	1	20
Trichlorofluoromethane			50.0	57.6		ug/L		115	60 - 141	3	20
1,2,3-Trichloropropane			50.0	46.0		ug/L		92	80 - 123	0	30
Vinyl acetate			100	109		ug/L		109	67 - 135	2	20
Vinyl chloride			50.0	57.1		ug/L		114	71 - 128	1	20
Xylenes, Total			100	101		ug/L		101	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 680-575003/10
Matrix: Water
Analysis Batch: 575003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 12:22	1
Acetonitrile	ND		200		ug/L			06/20/19 12:22	1
Acrolein	ND		50		ug/L			06/20/19 12:22	1
Acrylonitrile	ND		50		ug/L			06/20/19 12:22	1
Benzene	ND		2.0		ug/L			06/20/19 12:22	1
Bromochloromethane	ND		10		ug/L			06/20/19 12:22	1
Bromodichloromethane	ND		10		ug/L			06/20/19 12:22	1
Bromoform	ND		10		ug/L			06/20/19 12:22	1
Bromomethane	ND		10		ug/L			06/20/19 12:22	1
2-Butanone	ND		100		ug/L			06/20/19 12:22	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 12:22	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 12:22	1
Chlorobenzene	ND		10		ug/L			06/20/19 12:22	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/20/19 12:22	1
Chloroethane	ND		2.0		ug/L			06/20/19 12:22	1
Chloroform	ND		2.0		ug/L			06/20/19 12:22	1
Chloromethane	ND		10		ug/L			06/20/19 12:22	1
Allyl chloride	ND		100		ug/L			06/20/19 12:22	1
Dibromochloromethane	ND		10		ug/L			06/20/19 12:22	1
Dibromomethane	ND		10		ug/L			06/20/19 12:22	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 12:22	1
1,3-Dichlorobenzene	ND		10		ug/L			06/20/19 12:22	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 12:22	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 12:22	1
Dichlorodifluoromethane	ND		10		ug/L			06/20/19 12:22	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 12:22	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 12:22	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 12:22	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 12:22	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 12:22	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 12:22	1
1,3-Dichloropropane	ND		2.0		ug/L			06/20/19 12:22	1
2,2-Dichloropropane	ND		2.0		ug/L			06/20/19 12:22	1
1,1-Dichloropropene	ND		2.0		ug/L			06/20/19 12:22	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 12:22	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 12:22	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 12:22	1
Ethyl methacrylate	ND		10		ug/L			06/20/19 12:22	1
2-Hexanone	ND		50		ug/L			06/20/19 12:22	1
Iodomethane	ND		100		ug/L			06/20/19 12:22	1
Isobutanol	ND		200		ug/L			06/20/19 12:22	1
Methacrylonitrile	ND		100		ug/L			06/20/19 12:22	1
Methylene Chloride	ND		5.0		ug/L			06/20/19 12:22	1
Methyl methacrylate	ND		10		ug/L			06/20/19 12:22	1
4-Methyl-2-pentanone	ND		50		ug/L			06/20/19 12:22	1
Naphthalene	ND		10		ug/L			06/20/19 12:22	1
Propionitrile	ND		75		ug/L			06/20/19 12:22	1
Styrene	ND		10		ug/L			06/20/19 12:22	1

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

Lab Sample ID: MB 680-575003/10
Matrix: Water
Analysis Batch: 575003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 12:22	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 12:22	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 12:22	1
Toluene	ND		2.0		ug/L			06/20/19 12:22	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/20/19 12:22	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 12:22	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 12:22	1
Trichloroethene	ND		2.0		ug/L			06/20/19 12:22	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 12:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/20/19 12:22	1
Vinyl acetate	ND		100		ug/L			06/20/19 12:22	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 12:22	1
Xylenes	ND		5.0		ug/L			06/20/19 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/20/19 12:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*06/20/19 12:22*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*06/20/19 12:22*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/20/19 12:22*	*1*

Lab Sample ID: LCS 680-575003/4
Matrix: Water
Analysis Batch: 575003

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	243		ug/L		97	70 - 135
Acrolein	1000	1150		ug/L		115	45 - 164
Acrylonitrile	500	481		ug/L		96	80 - 123
Benzene	50.0	48.8		ug/L		98	80 - 120
Bromochloromethane	50.0	46.7		ug/L		93	80 - 120
Bromodichloromethane	50.0	49.9		ug/L		100	80 - 120
Bromoform	50.0	52.7		ug/L		105	74 - 126
Bromomethane	50.0	53.5		ug/L		107	62 - 130
2-Butanone	250	265		ug/L		106	80 - 131
Carbon disulfide	50.0	51.7		ug/L		103	80 - 120
Carbon tetrachloride	50.0	51.8		ug/L		104	76 - 123
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120
Chloroethane	50.0	53.0		ug/L		106	66 - 135
Chloroform	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	53.0		ug/L		106	69 - 131
Allyl chloride	50.0	55.6	J	ug/L		111	70 - 129
Dibromochloromethane	50.0	50.8		ug/L		102	80 - 121
Dibromomethane	50.0	48.0		ug/L		96	80 - 120
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120
1,3-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
trans-1,4-Dichloro-2-butene	50.0	54.0	J	ug/L		108	68 - 125
Dichlorodifluoromethane	50.0	68.3		ug/L		137	47 - 155

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

Lab Sample ID: LCS 680-575003/4
Matrix: Water
Analysis Batch: 575003

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.9		ug/L		96	80 - 120
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	54.4		ug/L		109	76 - 120
1,2-Dichloropropane	50.0	50.6		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	48.7		ug/L		97	80 - 120
2,2-Dichloropropane	50.0	54.9		ug/L		110	76 - 126
1,1-Dichloropropene	50.0	52.0		ug/L		104	80 - 120
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	47.7		ug/L		95	80 - 120
Ethylbenzene	50.0	52.8		ug/L		106	80 - 120
Ethyl methacrylate	50.0	49.7		ug/L		99	80 - 125
2-Hexanone	250	256		ug/L		102	74 - 127
Iodomethane	50.0	52.1	J	ug/L		104	52 - 142
Isobutanol	1250	1290		ug/L		103	64 - 142
Methylene Chloride	50.0	46.0		ug/L		92	80 - 120
4-Methyl-2-pentanone	250	253		ug/L		101	76 - 124
Naphthalene	50.0	49.8		ug/L		100	59 - 140
Styrene	50.0	51.7		ug/L		103	80 - 120
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 120
Tetrachloroethene	50.0	54.6		ug/L		109	80 - 121
Toluene	50.0	49.6		ug/L		99	80 - 113
1,2,4-Trichlorobenzene	50.0	52.1		ug/L		104	68 - 128
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	80 - 120
Trichloroethene	50.0	49.5		ug/L		99	80 - 120
Trichlorofluoromethane	50.0	52.3		ug/L		105	60 - 141
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	80 - 123
Vinyl acetate	100	120		ug/L		120	67 - 135
Vinyl chloride	50.0	56.7		ug/L		113	71 - 128
Xylenes	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*
Dibromofluoromethane (Surr)	*96*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 680-575003/5
Matrix: Water
Analysis Batch: 575003

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	232		ug/L		93	70 - 135	5	30
Acrolein	1000	1100		ug/L		110	45 - 164	4	30
Acrylonitrile	500	451		ug/L		90	80 - 123	6	20

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

Lab Sample ID: LCSD 680-575003/5
Matrix: Water
Analysis Batch: 575003

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	48.1		ug/L		96	80 - 120	1	20
Bromochloromethane	50.0	46.2		ug/L		92	80 - 120	1	20
Bromodichloromethane	50.0	48.3		ug/L		97	80 - 120	3	20
Bromoform	50.0	50.2		ug/L		100	74 - 126	5	20
Bromomethane	50.0	55.3		ug/L		111	62 - 130	3	20
2-Butanone	250	252		ug/L		101	80 - 131	5	20
Carbon disulfide	50.0	51.5		ug/L		103	80 - 120	0	20
Carbon tetrachloride	50.0	51.0		ug/L		102	76 - 123	2	20
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120	3	20
Chloroethane	50.0	51.9		ug/L		104	66 - 135	2	20
Chloroform	50.0	48.1		ug/L		96	80 - 120	3	20
Chloromethane	50.0	52.6		ug/L		105	69 - 131	1	30
Allyl chloride	50.0	54.5	J	ug/L		109	70 - 129	2	20
Dibromochloromethane	50.0	48.9		ug/L		98	80 - 121	4	20
Dibromomethane	50.0	45.8		ug/L		92	80 - 120	5	20
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120	3	20
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	2	20
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	80 - 120	1	20
trans-1,4-Dichloro-2-butene	50.0	51.6	J	ug/L		103	68 - 125	5	30
Dichlorodifluoromethane	50.0	63.6		ug/L		127	47 - 155	7	40
1,1-Dichloroethane	50.0	48.0		ug/L		96	80 - 120	4	20
1,2-Dichloroethane	50.0	46.1		ug/L		92	80 - 120	4	50
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 120	2	20
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	0	20
1,1-Dichloroethene	50.0	54.6		ug/L		109	76 - 120	0	20
1,2-Dichloropropane	50.0	49.5		ug/L		99	80 - 120	2	20
1,3-Dichloropropane	50.0	46.3		ug/L		93	80 - 120	5	20
2,2-Dichloropropane	50.0	53.2		ug/L		106	76 - 126	3	20
1,1-Dichloropropene	50.0	51.6		ug/L		103	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	44.8		ug/L		90	80 - 120	6	30
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120	2	20
Ethyl methacrylate	50.0	47.7		ug/L		95	80 - 125	4	20
2-Hexanone	250	245		ug/L		98	74 - 127	4	20
Iodomethane	50.0	51.5	J	ug/L		103	52 - 142	1	30
Isobutanol	1250	1220		ug/L		97	64 - 142	6	40
Methylene Chloride	50.0	45.7		ug/L		91	80 - 120	1	20
4-Methyl-2-pentanone	250	240		ug/L		96	76 - 124	6	20
Naphthalene	50.0	49.9		ug/L		100	59 - 140	0	20
Styrene	50.0	50.8		ug/L		102	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	80 - 120	3	20
Tetrachloroethene	50.0	54.0		ug/L		108	80 - 121	1	20
Toluene	50.0	49.4		ug/L		99	80 - 113	0	20
1,2,4-Trichlorobenzene	50.0	50.1		ug/L		100	68 - 128	4	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	80 - 120	4	20
Trichloroethene	50.0	50.4		ug/L		101	80 - 120	2	20
Trichlorofluoromethane	50.0	51.1		ug/L		102	60 - 141	2	20

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

Lab Sample ID: LCSD 680-575003/5
Matrix: Water
Analysis Batch: 575003

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			50.0	50.5		ug/L		101	80 - 123	6	30
Vinyl acetate			100	115		ug/L		115	67 - 135	4	20
Vinyl chloride			50.0	55.7		ug/L		111	71 - 128	2	20
Xylenes			100	101		ug/L		101	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
Dibromofluoromethane (Surr)	*94*		*80 - 122*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 680-575077/10
Matrix: Water
Analysis Batch: 575077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/20/19 23:50	1
Acrylonitrile	ND		50		ug/L			06/20/19 23:50	1
Benzene	ND		2.0		ug/L			06/20/19 23:50	1
Bromochloromethane	ND		10		ug/L			06/20/19 23:50	1
Bromodichloromethane	ND		10		ug/L			06/20/19 23:50	1
Bromoform	ND		10		ug/L			06/20/19 23:50	1
Bromomethane	ND		10		ug/L			06/20/19 23:50	1
2-Butanone (MEK)	ND		100		ug/L			06/20/19 23:50	1
Carbon disulfide	ND		5.0		ug/L			06/20/19 23:50	1
Carbon tetrachloride	ND		2.0		ug/L			06/20/19 23:50	1
Chlorobenzene	ND		10		ug/L			06/20/19 23:50	1
Chloroethane	ND		2.0		ug/L			06/20/19 23:50	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/20/19 23:50	1
Chloroform	ND		2.0		ug/L			06/20/19 23:50	1
1,2-Dibromoethane	ND		1.0		ug/L			06/20/19 23:50	1
Chloromethane	ND		10		ug/L			06/20/19 23:50	1
Dibromochloromethane	ND		10		ug/L			06/20/19 23:50	1
Dibromomethane	ND		10		ug/L			06/20/19 23:50	1
1,2-Dichlorobenzene	ND		10		ug/L			06/20/19 23:50	1
1,4-Dichlorobenzene	ND		10		ug/L			06/20/19 23:50	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/20/19 23:50	1
1,1-Dichloroethane	ND		2.0		ug/L			06/20/19 23:50	1
1,2-Dichloroethane	ND		2.0		ug/L			06/20/19 23:50	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 23:50	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/20/19 23:50	1
1,1-Dichloroethene	ND		2.0		ug/L			06/20/19 23:50	1
1,2-Dichloropropane	ND		2.0		ug/L			06/20/19 23:50	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 23:50	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/20/19 23:50	1
Ethylbenzene	ND		2.0		ug/L			06/20/19 23:50	1
2-Hexanone	ND		50		ug/L			06/20/19 23:50	1
Iodomethane	ND		100		ug/L			06/20/19 23:50	1

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

Lab Sample ID: MB 680-575077/10
Matrix: Water
Analysis Batch: 575077

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			06/20/19 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/20/19 23:50	1
Styrene	ND		10		ug/L			06/20/19 23:50	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 23:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/20/19 23:50	1
Tetrachloroethene	ND		2.0		ug/L			06/20/19 23:50	1
Toluene	ND		2.0		ug/L			06/20/19 23:50	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/20/19 23:50	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/20/19 23:50	1
Trichloroethene	ND		2.0		ug/L			06/20/19 23:50	1
Trichlorofluoromethane	ND		10		ug/L			06/20/19 23:50	1
1,2,3-Trichloropropane	ND		10		ug/L			06/20/19 23:50	1
Vinyl acetate	ND		100		ug/L			06/20/19 23:50	1
Vinyl chloride	ND		2.0		ug/L			06/20/19 23:50	1
Xylenes, Total	ND		5.0		ug/L			06/20/19 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/20/19 23:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*06/20/19 23:50*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*06/20/19 23:50*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/20/19 23:50*	*1*

Lab Sample ID: LCS 680-575077/4
Matrix: Water
Analysis Batch: 575077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	283		ug/L		113	70 - 135
Acrylonitrile	500	526		ug/L		105	80 - 123
Benzene	50.0	50.2		ug/L		100	80 - 120
Bromochloromethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	52.7		ug/L		105	80 - 120
Bromoform	50.0	53.0		ug/L		106	74 - 126
Bromomethane	50.0	55.4		ug/L		111	62 - 130
2-Butanone (MEK)	250	258		ug/L		103	80 - 131
Carbon disulfide	50.0	49.7		ug/L		99	80 - 120
Carbon tetrachloride	50.0	51.1		ug/L		102	76 - 123
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120
Chloroethane	50.0	51.5		ug/L		103	66 - 135
1,2-Dibromo-3-Chloropropane	50.0	53.9		ug/L		108	71 - 134
Chloroform	50.0	51.1		ug/L		102	80 - 120
1,2-Dibromoethane	50.0	52.3		ug/L		105	80 - 120
Chloromethane	50.0	50.7		ug/L		101	69 - 131
Dibromochloromethane	50.0	52.9		ug/L		106	80 - 121
Dibromomethane	50.0	53.6		ug/L		107	80 - 120
1,2-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	50.0	46.5	J	ug/L		93	68 - 125

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

Lab Sample ID: LCS 680-575077/4
Matrix: Water
Analysis Batch: 575077

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	49.6		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	76 - 120
1,2-Dichloropropane	50.0	51.4		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	50.5		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
2-Hexanone	250	259		ug/L		104	74 - 127
Iodomethane	50.0	51.5	J	ug/L		103	52 - 142
Methylene Chloride	50.0	51.0		ug/L		102	80 - 120
4-Methyl-2-pentanone (MIBK)	250	252		ug/L		101	76 - 124
Styrene	50.0	51.1		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	50.0	50.1		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	80 - 120
Tetrachloroethene	50.0	50.7		ug/L		101	80 - 121
Toluene	50.0	50.3		ug/L		101	80 - 113
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	80 - 120
Trichloroethene	50.0	52.5		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	55.8		ug/L		112	60 - 141
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	80 - 123
Vinyl acetate	100	95.8	J	ug/L		96	67 - 135
Vinyl chloride	50.0	56.0		ug/L		112	71 - 128
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 680-575077/5
Matrix: Water
Analysis Batch: 575077

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	263		ug/L		105	70 - 135	7	30
Acrylonitrile	500	496		ug/L		99	80 - 123	6	20
Benzene	50.0	49.8		ug/L		100	80 - 120	1	20
Bromochloromethane	50.0	47.4		ug/L		95	80 - 120	3	20
Bromodichloromethane	50.0	51.8		ug/L		104	80 - 120	2	20
Bromoform	50.0	51.3		ug/L		103	74 - 126	3	20
Bromomethane	50.0	55.2		ug/L		110	62 - 130	0	20
2-Butanone (MEK)	250	245		ug/L		98	80 - 131	5	20
Carbon disulfide	50.0	50.0		ug/L		100	80 - 120	1	20
Carbon tetrachloride	50.0	50.9		ug/L		102	76 - 123	0	20

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

Lab Sample ID: LCSD 680-575077/5
Matrix: Water
Analysis Batch: 575077

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.1		ug/L		98	80 - 120	3	20
Chloroethane			50.0	52.5		ug/L		105	66 - 135	2	20
1,2-Dibromo-3-Chloropropane			50.0	52.0		ug/L		104	71 - 134	4	20
Chloroform			50.0	50.9		ug/L		102	80 - 120	1	20
1,2-Dibromoethane			50.0	49.7		ug/L		99	80 - 120	5	20
Chloromethane			50.0	51.0		ug/L		102	69 - 131	1	30
Dibromochloromethane			50.0	51.9		ug/L		104	80 - 121	2	20
Dibromomethane			50.0	51.3		ug/L		103	80 - 120	4	20
1,2-Dichlorobenzene			50.0	49.1		ug/L		98	80 - 120	1	20
1,4-Dichlorobenzene			50.0	49.8		ug/L		100	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	45.7	J	ug/L		91	68 - 125	2	30
1,1-Dichloroethane			50.0	50.4		ug/L		101	80 - 120	0	20
1,2-Dichloroethane			50.0	48.5		ug/L		97	80 - 120	2	50
cis-1,2-Dichloroethene			50.0	52.2		ug/L		104	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	52.1		ug/L		104	80 - 120	0	20
1,1-Dichloroethene			50.0	53.5		ug/L		107	76 - 120	1	20
1,2-Dichloropropane			50.0	50.2		ug/L		100	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	49.4		ug/L		99	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	44.8		ug/L		90	80 - 120	4	30
Ethylbenzene			50.0	49.5		ug/L		99	80 - 120	1	20
2-Hexanone			250	245		ug/L		98	74 - 127	5	20
Iodomethane			50.0	50.9	J	ug/L		102	52 - 142	1	30
Methylene Chloride			50.0	48.5		ug/L		97	80 - 120	5	20
4-Methyl-2-pentanone (MIBK)			250	239		ug/L		96	76 - 124	5	20
Styrene			50.0	50.6		ug/L		101	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	49.1		ug/L		98	80 - 121	2	20
1,1,2,2-Tetrachloroethane			50.0	46.4		ug/L		93	80 - 120	4	20
Tetrachloroethene			50.0	51.9		ug/L		104	80 - 121	2	20
Toluene			50.0	49.8		ug/L		100	80 - 113	1	20
1,1,1-Trichloroethane			50.0	51.5		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane			50.0	49.4		ug/L		99	80 - 120	2	20
Trichloroethene			50.0	53.3		ug/L		107	80 - 120	1	20
Trichlorofluoromethane			50.0	56.2		ug/L		112	60 - 141	1	20
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	80 - 123	4	30
Vinyl acetate			100	91.0	J	ug/L		91	67 - 135	5	20
Vinyl chloride			50.0	56.2		ug/L		112	71 - 128	0	20
Xylenes, Total			100	100		ug/L		100	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 680-575341/10
Matrix: Water
Analysis Batch: 575341

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 14:20	1
Acrylonitrile	ND		50		ug/L			06/22/19 14:20	1
Benzene	ND		2.0		ug/L			06/22/19 14:20	1
Bromochloromethane	ND		10		ug/L			06/22/19 14:20	1
Bromodichloromethane	ND		10		ug/L			06/22/19 14:20	1
Bromoform	ND		10		ug/L			06/22/19 14:20	1
Bromomethane	ND		10		ug/L			06/22/19 14:20	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 14:20	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 14:20	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 14:20	1
Chlorobenzene	ND		10		ug/L			06/22/19 14:20	1
Chloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 14:20	1
Chloroform	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 14:20	1
Chloromethane	ND		10		ug/L			06/22/19 14:20	1
Dibromochloromethane	ND		10		ug/L			06/22/19 14:20	1
Dibromomethane	ND		10		ug/L			06/22/19 14:20	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 14:20	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 14:20	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 14:20	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 14:20	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:20	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:20	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 14:20	1
2-Hexanone	ND		50		ug/L			06/22/19 14:20	1
Iodomethane	ND		100		ug/L			06/22/19 14:20	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 14:20	1
Styrene	ND		10		ug/L			06/22/19 14:20	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:20	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 14:20	1
Toluene	ND		2.0		ug/L			06/22/19 14:20	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
Trichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 14:20	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 14:20	1
Vinyl acetate	ND		100		ug/L			06/22/19 14:20	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 14:20	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 14:20	1

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

Lab Sample ID: MB 680-575341/10
Matrix: Water
Analysis Batch: 575341

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/22/19 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*06/22/19 14:20*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*06/22/19 14:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/19 14:20*	*1*

Lab Sample ID: LCS 680-575341/4
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	262		ug/L		105	70 - 135
Acrylonitrile	500	470		ug/L		94	80 - 123
Benzene	50.0	47.7		ug/L		95	80 - 120
Bromochloromethane	50.0	48.8		ug/L		98	80 - 120
Bromodichloromethane	50.0	47.0		ug/L		94	80 - 120
Bromoform	50.0	51.0		ug/L		102	74 - 126
Bromomethane	50.0	52.8		ug/L		106	62 - 130
2-Butanone (MEK)	250	263		ug/L		105	80 - 131
Carbon disulfide	50.0	50.5		ug/L		101	80 - 120
Carbon tetrachloride	50.0	47.5		ug/L		95	76 - 123
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Chloroethane	50.0	48.6		ug/L		97	66 - 135
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	71 - 134
Chloroform	50.0	47.0		ug/L		94	80 - 120
1,2-Dibromoethane	50.0	48.6		ug/L		97	80 - 120
Chloromethane	50.0	51.7		ug/L		103	69 - 131
Dibromochloromethane	50.0	49.9		ug/L		100	80 - 121
Dibromomethane	50.0	47.8		ug/L		96	80 - 120
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.0	J	ug/L		104	68 - 125
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	46.1		ug/L		92	80 - 120
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	80 - 120
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	50.3		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	48.8		ug/L		98	80 - 120
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
2-Hexanone	250	234		ug/L		94	74 - 127
Iodomethane	50.0	52.3	J	ug/L		105	52 - 142
Methylene Chloride	50.0	46.8		ug/L		94	80 - 120
4-Methyl-2-pentanone (MIBK)	250	237		ug/L		95	76 - 124
Styrene	50.0	49.1		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120
Tetrachloroethene	50.0	52.0		ug/L		104	80 - 121

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

Lab Sample ID: LCS 680-575341/4
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	48.3		ug/L		97	80 - 113
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	80 - 120
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	80 - 120
Trichloroethene	50.0	48.2		ug/L		96	80 - 120
Trichlorofluoromethane	50.0	46.5		ug/L		93	60 - 141
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	80 - 123
Vinyl acetate	100	107		ug/L		107	67 - 135
Vinyl chloride	50.0	51.1		ug/L		102	71 - 128
Xylenes, Total	100	97.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*
Dibromofluoromethane (Surr)	*90*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 680-575341/5
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	290		ug/L		116	70 - 135	10	30
Acrylonitrile	500	515		ug/L		103	80 - 123	9	20
Benzene	50.0	51.5		ug/L		103	80 - 120	8	20
Bromochloromethane	50.0	54.9		ug/L		110	80 - 120	12	20
Bromodichloromethane	50.0	52.6		ug/L		105	80 - 120	11	20
Bromoform	50.0	53.3		ug/L		107	74 - 126	4	20
Bromomethane	50.0	54.8		ug/L		110	62 - 130	4	20
2-Butanone (MEK)	250	290		ug/L		116	80 - 131	10	20
Carbon disulfide	50.0	51.5		ug/L		103	80 - 120	2	20
Carbon tetrachloride	50.0	48.6		ug/L		97	76 - 123	2	20
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120	3	20
Chloroethane	50.0	50.7		ug/L		101	66 - 135	4	20
1,2-Dibromo-3-Chloropropane	50.0	51.7		ug/L		103	71 - 134	1	20
Chloroform	50.0	50.8		ug/L		102	80 - 120	8	20
1,2-Dibromoethane	50.0	54.1		ug/L		108	80 - 120	11	20
Chloromethane	50.0	54.4		ug/L		109	69 - 131	5	30
Dibromochloromethane	50.0	53.8		ug/L		108	80 - 121	7	20
Dibromomethane	50.0	52.6		ug/L		105	80 - 120	10	20
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120	3	20
trans-1,4-Dichloro-2-butene	50.0	53.5	J	ug/L		107	68 - 125	3	30
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	7	20
1,2-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	10	50
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	80 - 120	10	20
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120	5	20
1,1-Dichloroethene	50.0	50.9		ug/L		102	76 - 120	1	20
1,2-Dichloropropane	50.0	54.5		ug/L		109	80 - 120	11	20

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

Lab Sample ID: LCSD 680-575341/5
Matrix: Water
Analysis Batch: 575341

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	80 - 120	11	20
trans-1,3-Dichloropropene			50.0	54.0		ug/L		108	80 - 120	9	30
Ethylbenzene			50.0	50.6		ug/L		101	80 - 120	1	20
2-Hexanone			250	261		ug/L		104	74 - 127	11	20
Iodomethane			50.0	56.6	J	ug/L		113	52 - 142	8	30
Methylene Chloride			50.0	51.6		ug/L		103	80 - 120	10	20
4-Methyl-2-pentanone (MIBK)			250	259		ug/L		103	76 - 124	9	20
Styrene			50.0	51.4		ug/L		103	80 - 120	5	20
1,1,1,2-Tetrachloroethane			50.0	52.1		ug/L		104	80 - 121	2	20
1,1,2,2-Tetrachloroethane			50.0	51.5		ug/L		103	80 - 120	2	20
Tetrachloroethene			50.0	52.1		ug/L		104	80 - 121	0	20
Toluene			50.0	51.7		ug/L		103	80 - 113	7	20
1,1,1-Trichloroethane			50.0	49.1		ug/L		98	80 - 120	1	20
1,1,2-Trichloroethane			50.0	54.9		ug/L		110	80 - 120	10	20
Trichloroethene			50.0	51.5		ug/L		103	80 - 120	7	20
Trichlorofluoromethane			50.0	46.5		ug/L		93	60 - 141	0	20
1,2,3-Trichloropropane			50.0	52.3		ug/L		105	80 - 123	2	30
Vinyl acetate			100	116		ug/L		116	67 - 135	8	20
Vinyl chloride			50.0	52.1		ug/L		104	71 - 128	2	20
Xylenes, Total			100	100		ug/L		100	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 680-575377/9
Matrix: Water
Analysis Batch: 575377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 11:25	1
Acrylonitrile	ND		50		ug/L			06/24/19 11:25	1
Benzene	ND		2.0		ug/L			06/24/19 11:25	1
Bromochloromethane	ND		10		ug/L			06/24/19 11:25	1
Bromodichloromethane	ND		10		ug/L			06/24/19 11:25	1
Bromoform	ND		10		ug/L			06/24/19 11:25	1
Bromomethane	ND		10		ug/L			06/24/19 11:25	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 11:25	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 11:25	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 11:25	1
Chlorobenzene	ND		10		ug/L			06/24/19 11:25	1
Chloroethane	ND		2.0		ug/L			06/24/19 11:25	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 11:25	1
Chloroform	ND		2.0		ug/L			06/24/19 11:25	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 11:25	1
Chloromethane	ND		10		ug/L			06/24/19 11:25	1

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

Lab Sample ID: MB 680-575377/9
Matrix: Water
Analysis Batch: 575377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		10		ug/L			06/24/19 11:25	1
Dibromomethane	ND		10		ug/L			06/24/19 11:25	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 11:25	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 11:25	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 11:25	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 11:25	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 11:25	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 11:25	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 11:25	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 11:25	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 11:25	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 11:25	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 11:25	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 11:25	1
2-Hexanone	ND		50		ug/L			06/24/19 11:25	1
Iodomethane	ND		100		ug/L			06/24/19 11:25	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 11:25	1
Styrene	ND		10		ug/L			06/24/19 11:25	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 11:25	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 11:25	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 11:25	1
Toluene	ND		2.0		ug/L			06/24/19 11:25	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 11:25	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 11:25	1
Trichloroethene	ND		2.0		ug/L			06/24/19 11:25	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 11:25	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 11:25	1
Vinyl acetate	ND		100		ug/L			06/24/19 11:25	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 11:25	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/24/19 11:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*06/24/19 11:25*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*06/24/19 11:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/24/19 11:25*	*1*

Lab Sample ID: LCS 680-575377/3
Matrix: Water
Analysis Batch: 575377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	246		ug/L		98	70 - 135
Acrylonitrile	500	487		ug/L		97	80 - 123
Benzene	50.0	50.4		ug/L		101	80 - 120
Bromochloromethane	50.0	46.1		ug/L		92	80 - 120
Bromodichloromethane	50.0	51.6		ug/L		103	80 - 120

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

Lab Sample ID: LCS 680-575377/3
Matrix: Water
Analysis Batch: 575377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	50.2		ug/L		100	74 - 126
Bromomethane	50.0	45.8		ug/L		92	62 - 130
2-Butanone (MEK)	250	235		ug/L		94	80 - 131
Carbon disulfide	50.0	52.5		ug/L		105	80 - 120
Carbon tetrachloride	50.0	50.8		ug/L		102	76 - 123
Chlorobenzene	50.0	51.2		ug/L		102	80 - 120
Chloroethane	50.0	50.1		ug/L		100	66 - 135
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	71 - 134
Chloroform	50.0	51.3		ug/L		103	80 - 120
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120
Chloromethane	50.0	52.1		ug/L		104	69 - 131
Dibromochloromethane	50.0	50.3		ug/L		101	80 - 121
Dibromomethane	50.0	52.3		ug/L		105	80 - 120
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120
trans-1,4-Dichloro-2-butene	50.0	46.1	J	ug/L		92	68 - 125
1,1-Dichloroethane	50.0	51.2		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	48.8		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	52.5		ug/L		105	80 - 120
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	56.3		ug/L		113	76 - 120
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	47.7		ug/L		95	80 - 120
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
2-Hexanone	250	237		ug/L		95	74 - 127
Iodomethane	50.0	47.9	J	ug/L		96	52 - 142
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120
4-Methyl-2-pentanone (MIBK)	250	232		ug/L		93	76 - 124
Styrene	50.0	52.4		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.7		ug/L		99	80 - 121
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	80 - 120
Tetrachloroethene	50.0	54.1		ug/L		108	80 - 121
Toluene	50.0	51.3		ug/L		103	80 - 113
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	80 - 120
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	80 - 120
Trichloroethene	50.0	52.9		ug/L		106	80 - 120
Trichlorofluoromethane	50.0	57.0		ug/L		114	60 - 141
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	80 - 123
Vinyl acetate	100	113		ug/L		113	67 - 135
Vinyl chloride	50.0	56.2		ug/L		112	71 - 128
Xylenes, Total	100	105		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

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

Lab Sample ID: LCSD 680-575377/4
Matrix: Water
Analysis Batch: 575377

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	239		ug/L		96	70 - 135	3	30
Acrylonitrile	500	470		ug/L		94	80 - 123	4	20
Benzene	50.0	50.4		ug/L		101	80 - 120	0	20
Bromochloromethane	50.0	45.3		ug/L		91	80 - 120	2	20
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120	2	20
Bromoform	50.0	48.2		ug/L		96	74 - 126	4	20
Bromomethane	50.0	47.9		ug/L		96	62 - 130	4	20
2-Butanone (MEK)	250	222		ug/L		89	80 - 131	5	20
Carbon disulfide	50.0	52.0		ug/L		104	80 - 120	1	20
Carbon tetrachloride	50.0	50.8		ug/L		102	76 - 123	0	20
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120	1	20
Chloroethane	50.0	51.3		ug/L		103	66 - 135	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	71 - 134	6	20
Chloroform	50.0	50.8		ug/L		102	80 - 120	1	20
1,2-Dibromoethane	50.0	49.4		ug/L		99	80 - 120	3	20
Chloromethane	50.0	51.6		ug/L		103	69 - 131	1	30
Dibromochloromethane	50.0	49.7		ug/L		99	80 - 121	1	20
Dibromomethane	50.0	50.8		ug/L		102	80 - 120	3	20
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	80 - 120	2	20
trans-1,4-Dichloro-2-butene	50.0	44.6	J	ug/L		89	68 - 125	3	30
1,1-Dichloroethane	50.0	50.5		ug/L		101	80 - 120	1	20
1,2-Dichloroethane	50.0	47.8		ug/L		96	80 - 120	2	50
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120	2	20
1,1-Dichloroethene	50.0	55.9		ug/L		112	76 - 120	1	20
1,2-Dichloropropane	50.0	50.9		ug/L		102	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	80 - 120	2	30
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120	1	20
2-Hexanone	250	226		ug/L		91	74 - 127	5	20
Iodomethane	50.0	47.3	J	ug/L		95	52 - 142	1	30
Methylene Chloride	50.0	50.7		ug/L		101	80 - 120	1	20
4-Methyl-2-pentanone (MIBK)	250	222		ug/L		89	76 - 124	4	20
Styrene	50.0	51.7		ug/L		103	80 - 120	1	20
1,1,1,2-Tetrachloroethane	50.0	49.4		ug/L		99	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	80 - 120	5	20
Tetrachloroethene	50.0	54.0		ug/L		108	80 - 121	0	20
Toluene	50.0	51.0		ug/L		102	80 - 113	1	20
1,1,1-Trichloroethane	50.0	52.2		ug/L		104	80 - 120	0	20
1,1,2-Trichloroethane	50.0	49.0		ug/L		98	80 - 120	4	20
Trichloroethene	50.0	52.7		ug/L		105	80 - 120	0	20
Trichlorofluoromethane	50.0	57.3		ug/L		115	60 - 141	0	20
1,2,3-Trichloropropane	50.0	45.7		ug/L		91	80 - 123	4	30
Vinyl acetate	100	106		ug/L		106	67 - 135	6	20
Vinyl chloride	50.0	55.8		ug/L		112	71 - 128	1	20
Xylenes, Total	100	103		ug/L		103	80 - 120	2	20

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

Lab Sample ID: LCSD 680-575377/4
Matrix: Water
Analysis Batch: 575377

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 680-575395/9
Matrix: Water
Analysis Batch: 575395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/24/19 11:44	1
Acrylonitrile	ND		50		ug/L			06/24/19 11:44	1
Benzene	ND		2.0		ug/L			06/24/19 11:44	1
Bromochloromethane	ND		10		ug/L			06/24/19 11:44	1
Bromodichloromethane	ND		10		ug/L			06/24/19 11:44	1
Bromoform	ND		10		ug/L			06/24/19 11:44	1
Bromomethane	ND		10		ug/L			06/24/19 11:44	1
2-Butanone (MEK)	ND		100		ug/L			06/24/19 11:44	1
Carbon disulfide	ND		5.0		ug/L			06/24/19 11:44	1
Carbon tetrachloride	ND		2.0		ug/L			06/24/19 11:44	1
Chlorobenzene	ND		10		ug/L			06/24/19 11:44	1
Chloroethane	ND		2.0		ug/L			06/24/19 11:44	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/24/19 11:44	1
Chloroform	ND		2.0		ug/L			06/24/19 11:44	1
1,2-Dibromoethane	ND		1.0		ug/L			06/24/19 11:44	1
Chloromethane	ND		10		ug/L			06/24/19 11:44	1
Dibromochloromethane	ND		10		ug/L			06/24/19 11:44	1
Dibromomethane	ND		10		ug/L			06/24/19 11:44	1
1,2-Dichlorobenzene	ND		10		ug/L			06/24/19 11:44	1
1,4-Dichlorobenzene	ND		10		ug/L			06/24/19 11:44	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/24/19 11:44	1
1,1-Dichloroethane	ND		2.0		ug/L			06/24/19 11:44	1
1,2-Dichloroethane	ND		2.0		ug/L			06/24/19 11:44	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 11:44	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/24/19 11:44	1
1,1-Dichloroethene	ND		2.0		ug/L			06/24/19 11:44	1
1,2-Dichloropropane	ND		2.0		ug/L			06/24/19 11:44	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 11:44	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/24/19 11:44	1
Ethylbenzene	ND		2.0		ug/L			06/24/19 11:44	1
2-Hexanone	ND		50		ug/L			06/24/19 11:44	1
Iodomethane	ND		100		ug/L			06/24/19 11:44	1
Methylene Chloride	ND		5.0		ug/L			06/24/19 11:44	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/24/19 11:44	1
Styrene	ND		10		ug/L			06/24/19 11:44	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 11:44	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/24/19 11:44	1
Tetrachloroethene	ND		2.0		ug/L			06/24/19 11:44	1

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

Lab Sample ID: MB 680-575395/9
Matrix: Water
Analysis Batch: 575395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0		ug/L			06/24/19 11:44	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/24/19 11:44	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/24/19 11:44	1
Trichloroethene	ND		2.0		ug/L			06/24/19 11:44	1
Trichlorofluoromethane	ND		10		ug/L			06/24/19 11:44	1
1,2,3-Trichloropropane	ND		10		ug/L			06/24/19 11:44	1
Vinyl acetate	ND		100		ug/L			06/24/19 11:44	1
Vinyl chloride	ND		2.0		ug/L			06/24/19 11:44	1
Xylenes, Total	ND		5.0		ug/L			06/24/19 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/24/19 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/24/19 11:44*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 122*		*06/24/19 11:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/24/19 11:44*	*1*

Lab Sample ID: LCS 680-575395/3
Matrix: Water
Analysis Batch: 575395

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	247		ug/L		99	70 - 135
Acrylonitrile	500	518		ug/L		104	80 - 123
Benzene	50.0	49.9		ug/L		100	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	80 - 120
Bromodichloromethane	50.0	52.1		ug/L		104	80 - 120
Bromoform	50.0	54.1		ug/L		108	74 - 126
Bromomethane	50.0	43.2		ug/L		86	62 - 130
2-Butanone (MEK)	250	254		ug/L		101	80 - 131
Carbon disulfide	50.0	51.6		ug/L		103	80 - 120
Carbon tetrachloride	50.0	50.4		ug/L		101	76 - 123
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chloroethane	50.0	68.7	*	ug/L		137	66 - 135
1,2-Dibromo-3-Chloropropane	50.0	54.9		ug/L		110	71 - 134
Chloroform	50.0	50.2		ug/L		100	80 - 120
1,2-Dibromoethane	50.0	52.2		ug/L		104	80 - 120
Chloromethane	50.0	55.4		ug/L		111	69 - 131
Dibromochloromethane	50.0	54.3		ug/L		109	80 - 121
Dibromomethane	50.0	51.8		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.6	J	ug/L		105	68 - 125
1,1-Dichloroethane	50.0	49.1		ug/L		98	80 - 120
1,2-Dichloroethane	50.0	49.2		ug/L		98	80 - 120
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	52.1		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 120

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

Lab Sample ID: LCS 680-575395/3
Matrix: Water
Analysis Batch: 575395

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 120
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120
2-Hexanone	250	253		ug/L		101	74 - 127
Iodomethane	50.0	52.4	J	ug/L		105	52 - 142
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120
4-Methyl-2-pentanone (MIBK)	250	242		ug/L		97	76 - 124
Styrene	50.0	52.1		ug/L		104	80 - 120
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	54.1		ug/L		108	80 - 120
Tetrachloroethene	50.0	52.7		ug/L		105	80 - 121
Toluene	50.0	51.7		ug/L		103	80 - 113
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	80 - 120
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	80 - 120
Trichloroethene	50.0	50.3		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	51.1		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	80 - 123
Vinyl acetate	100	117		ug/L		117	67 - 135
Vinyl chloride	50.0	56.3		ug/L		113	71 - 128
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*98*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 680-575395/4
Matrix: Water
Analysis Batch: 575395

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	241		ug/L		96	70 - 135	2	30
Acrylonitrile	500	497		ug/L		99	80 - 123	4	20
Benzene	50.0	49.7		ug/L		99	80 - 120	0	20
Bromochloromethane	50.0	48.2		ug/L		96	80 - 120	3	20
Bromodichloromethane	50.0	50.8		ug/L		102	80 - 120	2	20
Bromoform	50.0	50.8		ug/L		102	74 - 126	6	20
Bromomethane	50.0	43.9		ug/L		88	62 - 130	2	20
2-Butanone (MEK)	250	247		ug/L		99	80 - 131	3	20
Carbon disulfide	50.0	51.0		ug/L		102	80 - 120	1	20
Carbon tetrachloride	50.0	51.0		ug/L		102	76 - 123	1	20
Chlorobenzene	50.0	50.4		ug/L		101	80 - 120	0	20
Chloroethane	50.0	64.3		ug/L		129	66 - 135	7	20
1,2-Dibromo-3-Chloropropane	50.0	55.9		ug/L		112	71 - 134	2	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	0	20
1,2-Dibromoethane	50.0	49.7		ug/L		99	80 - 120	5	20
Chloromethane	50.0	57.2		ug/L		114	69 - 131	3	30

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

Lab Sample ID: LCSD 680-575395/4
Matrix: Water
Analysis Batch: 575395

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	50.0	52.0		ug/L		104	80 - 121	4	20
Dibromomethane	50.0	49.6		ug/L		99	80 - 120	4	20
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	1	20
trans-1,4-Dichloro-2-butene	50.0	49.9	J	ug/L		100	68 - 125	5	30
1,1-Dichloroethane	50.0	49.0		ug/L		98	80 - 120	0	20
1,2-Dichloroethane	50.0	47.7		ug/L		95	80 - 120	3	50
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	80 - 120	0	20
1,1-Dichloroethene	50.0	53.3		ug/L		107	76 - 120	2	20
1,2-Dichloropropane	50.0	50.5		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	48.8		ug/L		98	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	80 - 120	4	30
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	0	20
2-Hexanone	250	241		ug/L		96	74 - 127	5	20
Iodomethane	50.0	53.6	J	ug/L		107	52 - 142	2	30
Methylene Chloride	50.0	49.4		ug/L		99	80 - 120	3	20
4-Methyl-2-pentanone (MIBK)	250	237		ug/L		95	76 - 124	2	20
Styrene	50.0	51.2		ug/L		102	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/L		104	80 - 120	4	20
Tetrachloroethene	50.0	51.6		ug/L		103	80 - 121	2	20
Toluene	50.0	51.4		ug/L		103	80 - 113	1	20
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	80 - 120	2	20
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	80 - 120	4	20
Trichloroethene	50.0	51.1		ug/L		102	80 - 120	2	20
Trichlorofluoromethane	50.0	52.6		ug/L		105	60 - 141	3	20
1,2,3-Trichloropropane	50.0	51.0		ug/L		102	80 - 123	2	30
Vinyl acetate	100	112		ug/L		112	67 - 135	5	20
Vinyl chloride	50.0	58.5		ug/L		117	71 - 128	4	20
Xylenes, Total	100	99.2		ug/L		99	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 680-575556/10
Matrix: Water
Analysis Batch: 575556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/25/19 12:45	1
Acetonitrile	ND		200		ug/L			06/25/19 12:45	1
Acrolein	ND		50		ug/L			06/25/19 12:45	1
Acrylonitrile	ND		50		ug/L			06/25/19 12:45	1
Benzene	ND		2.0		ug/L			06/25/19 12:45	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

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

Lab Sample ID: MB 680-575556/10
Matrix: Water
Analysis Batch: 575556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		10		ug/L			06/25/19 12:45	1
Bromodichloromethane	ND		10		ug/L			06/25/19 12:45	1
Bromoform	ND		10		ug/L			06/25/19 12:45	1
Bromomethane	ND		10		ug/L			06/25/19 12:45	1
2-Butanone	ND		100		ug/L			06/25/19 12:45	1
Carbon disulfide	ND		5.0		ug/L			06/25/19 12:45	1
Carbon tetrachloride	ND		2.0		ug/L			06/25/19 12:45	1
Chlorobenzene	ND		10		ug/L			06/25/19 12:45	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/25/19 12:45	1
Chloroethane	ND		2.0		ug/L			06/25/19 12:45	1
Chloroform	ND		2.0		ug/L			06/25/19 12:45	1
Chloromethane	ND		10		ug/L			06/25/19 12:45	1
Allyl chloride	ND		100		ug/L			06/25/19 12:45	1
Dibromochloromethane	ND		10		ug/L			06/25/19 12:45	1
Dibromomethane	ND		10		ug/L			06/25/19 12:45	1
1,2-Dichlorobenzene	ND		10		ug/L			06/25/19 12:45	1
1,3-Dichlorobenzene	ND		10		ug/L			06/25/19 12:45	1
1,4-Dichlorobenzene	ND		10		ug/L			06/25/19 12:45	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/25/19 12:45	1
Dichlorodifluoromethane	ND		10		ug/L			06/25/19 12:45	1
1,1-Dichloroethane	ND		2.0		ug/L			06/25/19 12:45	1
1,2-Dichloroethane	ND		2.0		ug/L			06/25/19 12:45	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 12:45	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/25/19 12:45	1
1,1-Dichloroethene	ND		2.0		ug/L			06/25/19 12:45	1
1,2-Dichloropropane	ND		2.0		ug/L			06/25/19 12:45	1
1,3-Dichloropropane	ND		2.0		ug/L			06/25/19 12:45	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/19 12:45	1
1,1-Dichloropropene	ND		2.0		ug/L			06/25/19 12:45	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 12:45	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/25/19 12:45	1
Ethylbenzene	ND		2.0		ug/L			06/25/19 12:45	1
Ethyl methacrylate	ND		10		ug/L			06/25/19 12:45	1
2-Hexanone	ND		50		ug/L			06/25/19 12:45	1
Iodomethane	ND		100		ug/L			06/25/19 12:45	1
Isobutanol	ND		200		ug/L			06/25/19 12:45	1
Methacrylonitrile	ND		100		ug/L			06/25/19 12:45	1
Methylene Chloride	ND		5.0		ug/L			06/25/19 12:45	1
Methyl methacrylate	ND		10		ug/L			06/25/19 12:45	1
4-Methyl-2-pentanone	ND		50		ug/L			06/25/19 12:45	1
Naphthalene	ND		10		ug/L			06/25/19 12:45	1
Propionitrile	ND		75		ug/L			06/25/19 12:45	1
Styrene	ND		10		ug/L			06/25/19 12:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 12:45	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/19 12:45	1
Tetrachloroethene	ND		2.0		ug/L			06/25/19 12:45	1
Toluene	ND		2.0		ug/L			06/25/19 12:45	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/25/19 12:45	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/25/19 12:45	1

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

Lab Sample ID: MB 680-575556/10
Matrix: Water
Analysis Batch: 575556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.0		ug/L			06/25/19 12:45	1
Trichloroethene	ND		2.0		ug/L			06/25/19 12:45	1
Trichlorofluoromethane	ND		10		ug/L			06/25/19 12:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/19 12:45	1
Vinyl acetate	ND		100		ug/L			06/25/19 12:45	1
Vinyl chloride	ND		2.0		ug/L			06/25/19 12:45	1
Xylenes	ND		5.0		ug/L			06/25/19 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/25/19 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*06/25/19 12:45*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*06/25/19 12:45*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/25/19 12:45*	*1*

Lab Sample ID: LCS 680-575556/4
Matrix: Water
Analysis Batch: 575556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	249		ug/L		99	70 - 135
Acrolein	1000	1210		ug/L		121	45 - 164
Acrylonitrile	500	491		ug/L		98	80 - 123
Benzene	50.0	49.7		ug/L		99	80 - 120
Bromochloromethane	50.0	50.1		ug/L		100	80 - 120
Bromodichloromethane	50.0	50.5		ug/L		101	80 - 120
Bromoform	50.0	54.1		ug/L		108	74 - 126
Bromomethane	50.0	59.2		ug/L		118	62 - 130
2-Butanone	250	270		ug/L		108	80 - 131
Carbon disulfide	50.0	51.6		ug/L		103	80 - 120
Carbon tetrachloride	50.0	51.4		ug/L		103	76 - 123
Chlorobenzene	50.0	51.4		ug/L		103	80 - 120
Chloroethane	50.0	50.2		ug/L		100	66 - 135
Chloroform	50.0	49.7		ug/L		99	80 - 120
Chloromethane	50.0	51.2		ug/L		102	69 - 131
Allyl chloride	50.0	55.0	J	ug/L		110	70 - 129
Dibromochloromethane	50.0	52.7		ug/L		105	80 - 121
Dibromomethane	50.0	50.1		ug/L		100	80 - 120
1,2-Dichlorobenzene	50.0	49.2		ug/L		98	80 - 120
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	80 - 120
1,4-Dichlorobenzene	50.0	51.9		ug/L		104	80 - 120
trans-1,4-Dichloro-2-butene	50.0	55.2	J	ug/L		110	68 - 125
Dichlorodifluoromethane	50.0	56.2		ug/L		112	47 - 155
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.6		ug/L		95	80 - 120
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	55.8		ug/L		112	76 - 120
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 120

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

Lab Sample ID: LCS 680-575556/4
Matrix: Water
Analysis Batch: 575556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	50.0		ug/L		100	80 - 120
2,2-Dichloropropane	50.0	52.1		ug/L		104	76 - 126
1,1-Dichloropropene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	48.1		ug/L		96	80 - 120
Ethylbenzene	50.0	52.5		ug/L		105	80 - 120
Ethyl methacrylate	50.0	52.6		ug/L		105	80 - 125
2-Hexanone	250	264		ug/L		106	74 - 127
Iodomethane	50.0	54.6	J	ug/L		109	52 - 142
Isobutanol	1250	1360		ug/L		109	64 - 142
Methylene Chloride	50.0	48.2		ug/L		96	80 - 120
4-Methyl-2-pentanone	250	255		ug/L		102	76 - 124
Naphthalene	50.0	51.9		ug/L		104	59 - 140
Styrene	50.0	52.6		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/L		107	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	80 - 120
Tetrachloroethene	50.0	53.8		ug/L		108	80 - 121
Toluene	50.0	50.3		ug/L		101	80 - 113
1,2,4-Trichlorobenzene	50.0	52.1		ug/L		104	68 - 128
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	51.5		ug/L		103	80 - 120
Trichlorofluoromethane	50.0	49.3		ug/L		99	60 - 141
1,2,3-Trichloropropane	50.0	53.1		ug/L		106	80 - 123
Vinyl acetate	100	121		ug/L		121	67 - 135
Vinyl chloride	50.0	54.1		ug/L		108	71 - 128
Xylenes	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 680-575556/5
Matrix: Water
Analysis Batch: 575556

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	253		ug/L		101	70 - 135	2	30
Acrolein	1000	1170		ug/L		117	45 - 164	3	30
Acrylonitrile	500	481		ug/L		96	80 - 123	2	20
Benzene	50.0	49.7		ug/L		99	80 - 120	0	20
Bromochloromethane	50.0	47.6		ug/L		95	80 - 120	5	20
Bromodichloromethane	50.0	49.3		ug/L		99	80 - 120	2	20
Bromoform	50.0	52.5		ug/L		105	74 - 126	3	20
Bromomethane	50.0	53.1		ug/L		106	62 - 130	11	20
2-Butanone	250	263		ug/L		105	80 - 131	3	20

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

Lab Sample ID: LCSD 680-575556/5
Matrix: Water
Analysis Batch: 575556

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	52.6		ug/L		105	80 - 120	2	20
Carbon tetrachloride	50.0	50.8		ug/L		102	76 - 123	1	20
Chlorobenzene	50.0	51.1		ug/L		102	80 - 120	0	20
Chloroethane	50.0	50.6		ug/L		101	66 - 135	1	20
Chloroform	50.0	48.4		ug/L		97	80 - 120	3	20
Chloromethane	50.0	52.0		ug/L		104	69 - 131	1	30
Allyl chloride	50.0	55.3	J	ug/L		111	70 - 129	1	20
Dibromochloromethane	50.0	50.9		ug/L		102	80 - 121	4	20
Dibromomethane	50.0	48.1		ug/L		96	80 - 120	4	20
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120	1	20
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	80 - 120	1	20
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 120	4	20
trans-1,4-Dichloro-2-butene	50.0	52.6	J	ug/L		105	68 - 125	5	30
Dichlorodifluoromethane	50.0	59.8		ug/L		120	47 - 155	6	40
1,1-Dichloroethane	50.0	49.3		ug/L		99	80 - 120	2	20
1,2-Dichloroethane	50.0	45.8		ug/L		92	80 - 120	4	50
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	80 - 120	0	20
1,1-Dichloroethene	50.0	56.1		ug/L		112	76 - 120	0	20
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 120	0	20
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 120	4	20
2,2-Dichloropropane	50.0	51.0		ug/L		102	76 - 126	2	20
1,1-Dichloropropene	50.0	51.5		ug/L		103	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	49.9		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	45.8		ug/L		92	80 - 120	5	30
Ethylbenzene	50.0	52.8		ug/L		106	80 - 120	1	20
Ethyl methacrylate	50.0	51.2		ug/L		102	80 - 125	3	20
2-Hexanone	250	260		ug/L		104	74 - 127	2	20
Iodomethane	50.0	53.6	J	ug/L		107	52 - 142	2	30
Isobutanol	1250	1330		ug/L		106	64 - 142	3	40
Methylene Chloride	50.0	47.0		ug/L		94	80 - 120	2	20
4-Methyl-2-pentanone	250	254		ug/L		102	76 - 124	1	20
Naphthalene	50.0	51.2		ug/L		102	59 - 140	1	20
Styrene	50.0	51.3		ug/L		103	80 - 120	3	20
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/L		103	80 - 121	3	20
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	80 - 120	2	20
Tetrachloroethene	50.0	53.2		ug/L		106	80 - 121	1	20
Toluene	50.0	50.4		ug/L		101	80 - 113	0	20
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	68 - 128	1	20
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	80 - 120	1	20
Trichloroethene	50.0	50.1		ug/L		100	80 - 120	3	20
Trichlorofluoromethane	50.0	50.2		ug/L		100	60 - 141	2	20
1,2,3-Trichloropropane	50.0	50.8		ug/L		102	80 - 123	4	30
Vinyl acetate	100	116		ug/L		116	67 - 135	4	20
Vinyl chloride	50.0	55.1		ug/L		110	71 - 128	2	20
Xylenes	100	103		ug/L		103	80 - 120	1	20

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

Lab Sample ID: LCSD 680-575556/5
Matrix: Water
Analysis Batch: 575556

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
Dibromofluoromethane (Surr)	*95*		*80 - 122*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 680-575656/11
Matrix: Water
Analysis Batch: 575656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/26/19 01:58	1
Acetonitrile	ND		200		ug/L			06/26/19 01:58	1
Acrolein	ND		50		ug/L			06/26/19 01:58	1
Acrylonitrile	ND		50		ug/L			06/26/19 01:58	1
Benzene	ND		2.0		ug/L			06/26/19 01:58	1
Bromochloromethane	ND		10		ug/L			06/26/19 01:58	1
Bromodichloromethane	ND		10		ug/L			06/26/19 01:58	1
Bromoform	ND		10		ug/L			06/26/19 01:58	1
Bromomethane	ND		10		ug/L			06/26/19 01:58	1
2-Butanone	ND		100		ug/L			06/26/19 01:58	1
Carbon disulfide	ND		5.0		ug/L			06/26/19 01:58	1
Carbon tetrachloride	ND		2.0		ug/L			06/26/19 01:58	1
Chlorobenzene	ND		10		ug/L			06/26/19 01:58	1
2-Chloro-1,3-butadiene	ND		5.0		ug/L			06/26/19 01:58	1
Chloroethane	ND		2.0		ug/L			06/26/19 01:58	1
Chloroform	ND		2.0		ug/L			06/26/19 01:58	1
Chloromethane	ND		10		ug/L			06/26/19 01:58	1
Allyl chloride	ND		100		ug/L			06/26/19 01:58	1
Dibromochloromethane	ND		10		ug/L			06/26/19 01:58	1
Dibromomethane	ND		10		ug/L			06/26/19 01:58	1
1,2-Dichlorobenzene	ND		10		ug/L			06/26/19 01:58	1
1,3-Dichlorobenzene	ND		10		ug/L			06/26/19 01:58	1
1,4-Dichlorobenzene	ND		10		ug/L			06/26/19 01:58	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/26/19 01:58	1
Dichlorodifluoromethane	ND		10		ug/L			06/26/19 01:58	1
1,1-Dichloroethane	ND		2.0		ug/L			06/26/19 01:58	1
1,2-Dichloroethane	ND		2.0		ug/L			06/26/19 01:58	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 01:58	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/26/19 01:58	1
1,1-Dichloroethene	ND		2.0		ug/L			06/26/19 01:58	1
1,2-Dichloropropane	ND		2.0		ug/L			06/26/19 01:58	1
1,3-Dichloropropane	ND		2.0		ug/L			06/26/19 01:58	1
2,2-Dichloropropane	ND		2.0		ug/L			06/26/19 01:58	1
1,1-Dichloropropene	ND		2.0		ug/L			06/26/19 01:58	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 01:58	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/26/19 01:58	1
Ethylbenzene	ND		2.0		ug/L			06/26/19 01:58	1
Ethyl methacrylate	ND		10		ug/L			06/26/19 01:58	1

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

Lab Sample ID: MB 680-575656/11
Matrix: Water
Analysis Batch: 575656

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		50		ug/L			06/26/19 01:58	1
Iodomethane	ND		100		ug/L			06/26/19 01:58	1
Isobutanol	ND		200		ug/L			06/26/19 01:58	1
Methacrylonitrile	ND		100		ug/L			06/26/19 01:58	1
Methylene Chloride	ND		5.0		ug/L			06/26/19 01:58	1
Methyl methacrylate	ND		10		ug/L			06/26/19 01:58	1
4-Methyl-2-pentanone	ND		50		ug/L			06/26/19 01:58	1
Naphthalene	ND		10		ug/L			06/26/19 01:58	1
Propionitrile	ND		75		ug/L			06/26/19 01:58	1
Styrene	ND		10		ug/L			06/26/19 01:58	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 01:58	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/26/19 01:58	1
Tetrachloroethene	ND		2.0		ug/L			06/26/19 01:58	1
Toluene	ND		2.0		ug/L			06/26/19 01:58	1
1,2,4-Trichlorobenzene	ND		10		ug/L			06/26/19 01:58	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/26/19 01:58	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/26/19 01:58	1
Trichloroethene	ND		2.0		ug/L			06/26/19 01:58	1
Trichlorofluoromethane	ND		10		ug/L			06/26/19 01:58	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/26/19 01:58	1
Vinyl acetate	ND		100		ug/L			06/26/19 01:58	1
Vinyl chloride	ND		2.0		ug/L			06/26/19 01:58	1
Xylenes	ND		5.0		ug/L			06/26/19 01:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/26/19 01:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*73 - 131*		*06/26/19 01:58*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 122*		*06/26/19 01:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/26/19 01:58*	*1*

Lab Sample ID: LCS 680-575656/1004
Matrix: Water
Analysis Batch: 575656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	246		ug/L		98	70 - 135
Acrolein	1000	1160		ug/L		116	45 - 164
Acrylonitrile	500	481		ug/L		96	80 - 123
Benzene	50.0	49.0		ug/L		98	80 - 120
Bromochloromethane	50.0	48.7		ug/L		97	80 - 120
Bromodichloromethane	50.0	50.0		ug/L		100	80 - 120
Bromoform	50.0	53.1		ug/L		106	74 - 126
Bromomethane	50.0	52.2		ug/L		104	62 - 130
2-Butanone	250	267		ug/L		107	80 - 131
Carbon disulfide	50.0	50.7		ug/L		101	80 - 120
Carbon tetrachloride	50.0	50.0		ug/L		100	76 - 123
Chlorobenzene	50.0	51.6		ug/L		103	80 - 120
Chloroethane	50.0	51.8		ug/L		104	66 - 135

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

Lab Sample ID: LCS 680-575656/1004
Matrix: Water
Analysis Batch: 575656

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	50.0	50.2		ug/L		100	80 - 120
Chloromethane	50.0	53.7		ug/L		107	69 - 131
Allyl chloride	50.0	53.0	J	ug/L		106	70 - 129
Dibromochloromethane	50.0	51.6		ug/L		103	80 - 121
Dibromomethane	50.0	48.6		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	50.0	50.5	J	ug/L		101	68 - 125
Dichlorodifluoromethane	50.0	62.1		ug/L		124	47 - 155
1,1-Dichloroethane	50.0	49.5		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	46.6		ug/L		93	80 - 120
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	55.2		ug/L		110	76 - 120
1,2-Dichloropropane	50.0	51.1		ug/L		102	80 - 120
1,3-Dichloropropane	50.0	48.8		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	37.8		ug/L		76	76 - 126
1,1-Dichloropropene	50.0	49.6		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	80 - 120
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	80 - 120
Ethylbenzene	50.0	52.2		ug/L		104	80 - 120
Ethyl methacrylate	50.0	50.6		ug/L		101	80 - 125
2-Hexanone	250	262		ug/L		105	74 - 127
Iodomethane	50.0	53.2	J	ug/L		106	52 - 142
Isobutanol	1250	1290		ug/L		104	64 - 142
Methylene Chloride	50.0	47.1		ug/L		94	80 - 120
4-Methyl-2-pentanone	250	258		ug/L		103	76 - 124
Naphthalene	50.0	48.7		ug/L		97	59 - 140
Styrene	50.0	52.3		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	80 - 120
Tetrachloroethene	50.0	53.8		ug/L		108	80 - 121
Toluene	50.0	50.6		ug/L		101	80 - 113
1,2,4-Trichlorobenzene	50.0	48.8		ug/L		98	68 - 128
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 120
Trichloroethene	50.0	51.9		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	49.8		ug/L		100	60 - 141
1,2,3-Trichloropropane	50.0	52.8		ug/L		106	80 - 123
Vinyl acetate	100	90.5	J	ug/L		90	67 - 135
Vinyl chloride	50.0	55.3		ug/L		111	71 - 128
Xylenes	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*

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

Lab Sample ID: LCS 680-575656/1004
Matrix: Water
Analysis Batch: 575656

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: LCSD 680-575656/6
Matrix: Water
Analysis Batch: 575656

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	247		ug/L		99	70 - 135	0	30
Acrolein			1000	1140		ug/L		114	45 - 164	1	30
Acrylonitrile			500	485		ug/L		97	80 - 123	1	20
Benzene			50.0	50.4		ug/L		101	80 - 120	3	20
Bromochloromethane			50.0	48.5		ug/L		97	80 - 120	0	20
Bromodichloromethane			50.0	49.9		ug/L		100	80 - 120	0	20
Bromoform			50.0	54.9		ug/L		110	74 - 126	3	20
Bromomethane			50.0	53.2		ug/L		106	62 - 130	2	20
2-Butanone			250	267		ug/L		107	80 - 131	0	20
Carbon disulfide			50.0	50.9		ug/L		102	80 - 120	0	20
Carbon tetrachloride			50.0	50.0		ug/L		100	76 - 123	0	20
Chlorobenzene			50.0	52.2		ug/L		104	80 - 120	1	20
Chloroethane			50.0	51.4		ug/L		103	66 - 135	1	20
Chloroform			50.0	49.6		ug/L		99	80 - 120	1	20
Chloromethane			50.0	53.7		ug/L		107	69 - 131	0	30
Allyl chloride			50.0	50.7	J	ug/L		101	70 - 129	4	20
Dibromochloromethane			50.0	52.3		ug/L		105	80 - 121	1	20
Dibromomethane			50.0	48.8		ug/L		98	80 - 120	0	20
1,2-Dichlorobenzene			50.0	50.0		ug/L		100	80 - 120	4	20
1,3-Dichlorobenzene			50.0	49.6		ug/L		99	80 - 120	3	20
1,4-Dichlorobenzene			50.0	50.7		ug/L		101	80 - 120	4	20
trans-1,4-Dichloro-2-butene			50.0	49.3	J	ug/L		99	68 - 125	2	30
Dichlorodifluoromethane			50.0	56.2		ug/L		112	47 - 155	10	40
1,1-Dichloroethane			50.0	50.0		ug/L		100	80 - 120	1	20
1,2-Dichloroethane			50.0	47.6		ug/L		95	80 - 120	2	50
cis-1,2-Dichloroethene			50.0	48.8		ug/L		98	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	52.3		ug/L		105	80 - 120	1	20
1,1-Dichloroethene			50.0	54.7		ug/L		109	76 - 120	1	20
1,2-Dichloropropane			50.0	51.2		ug/L		102	80 - 120	0	20
1,3-Dichloropropane			50.0	50.0		ug/L		100	80 - 120	2	20
2,2-Dichloropropane			50.0	36.1	*	ug/L		72	76 - 126	4	20
1,1-Dichloropropene			50.0	50.7		ug/L		101	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	48.2		ug/L		96	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	44.8		ug/L		90	80 - 120	1	30
Ethylbenzene			50.0	52.7		ug/L		105	80 - 120	1	20
Ethyl methacrylate			50.0	50.8		ug/L		102	80 - 125	0	20
2-Hexanone			250	263		ug/L		105	74 - 127	0	20
Iodomethane			50.0	55.1	J	ug/L		110	52 - 142	3	30
Isobutanol			1250	1320		ug/L		106	64 - 142	2	40
Methylene Chloride			50.0	46.9		ug/L		94	80 - 120	0	20
4-Methyl-2-pentanone			250	259		ug/L		103	76 - 124	0	20

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

Lab Sample ID: LCSD 680-575656/6
Matrix: Water
Analysis Batch: 575656

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			50.0	51.6		ug/L		103	59 - 140	6	20
Styrene			50.0	52.8		ug/L		106	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	51.9		ug/L		104	80 - 121	0	20
1,1,2,2-Tetrachloroethane			50.0	51.4		ug/L		103	80 - 120	4	20
Tetrachloroethene			50.0	52.0		ug/L		104	80 - 121	3	20
Toluene			50.0	51.4		ug/L		103	80 - 113	1	20
1,2,4-Trichlorobenzene			50.0	51.1		ug/L		102	68 - 128	4	20
1,1,1-Trichloroethane			50.0	51.7		ug/L		103	80 - 120	2	20
1,1,2-Trichloroethane			50.0	50.7		ug/L		101	80 - 120	3	20
Trichloroethene			50.0	52.1		ug/L		104	80 - 120	0	20
Trichlorofluoromethane			50.0	48.5		ug/L		97	60 - 141	3	20
1,2,3-Trichloropropane			50.0	52.4		ug/L		105	80 - 123	1	30
Vinyl acetate			100	89.3	J	ug/L		89	67 - 135	1	20
Vinyl chloride			50.0	56.1		ug/L		112	71 - 128	1	20
Xylenes			100	104		ug/L		104	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*73 - 131*
Dibromofluoromethane (Surr)	*95*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-444688/1-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Acenaphthylene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Acetophenone	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Acetylaminofluorene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
4-Aminobiphenyl	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Anthracene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
1,4-Benzenediamine	ND		8000		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzo[a]anthracene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzo[a]pyrene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzo[b]fluoranthene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzo[g,h,i]perylene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzo[k]fluoranthene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Benzyl alcohol	ND		80		ug/L		06/17/19 09:48	06/20/19 15:32	1
Bis(2-chloroethoxy)methane	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Bis(2-chloroethyl)ether	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		06/17/19 09:48	06/20/19 15:32	1
4-Bromophenyl phenyl ether	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Butyl benzyl phthalate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Chloronaphthalene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Chlorophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-444688/1-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Chrysene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Diallate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Dibenz(a,h)anthracene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Dibenzofuran	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
3,3'-Dichlorobenzidine	ND		240		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4-Dichlorophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,6-Dichlorophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Diethyl phthalate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Dimethoate	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
3,3'-Dimethylbenzidine	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4-Dimethylphenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Dimethyl phthalate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Di-n-butyl phthalate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
4,6-Dinitro-o-cresol	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4-Dinitrophenol	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4-Dinitrotoluene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,6-Dinitrotoluene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Di-n-octyl phthalate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Di-n-propylnitrosamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Disulfoton	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Ethyl methanesulfonate	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Famphur	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Fluoranthene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Fluorene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Hexachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Hexachlorobutadiene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Hexachlorocyclopentadiene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Hexachloroethane	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Hexachloropropene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Isophorone	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Isosafrole	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
m-Dinitrobenzene	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Methapyrilene	ND		8000		ug/L		06/17/19 09:48	06/20/19 15:32	1
3-Methylcholanthrene	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Methyl methanesulfonate	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Methylnaphthalene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Methyl parathion	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
m & p - Cresol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
1,4-Naphthoquinone	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
1-Naphthylamine	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Naphthylamine	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-Nitroaniline	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
3-Nitroaniline	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Nitroaniline, p-	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Nitrobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
5-Nitro-o-toluidine	ND		80		ug/L		06/17/19 09:48	06/20/19 15:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-444688/1-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
4-Nitrophenol	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosodiethylamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosodimethylamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosodi-n-butylamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosodiphenylamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosomethylethylamine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosopiperidine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
N-Nitrosopyrrolidine	ND		80		ug/L		06/17/19 09:48	06/20/19 15:32	1
o-Cresol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
o,o',o''-Triethylphosphorothioate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
o-Toluidine	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,2'-oxybis[1-chloropropane]	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Parathion	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
p-Chloroaniline	ND		80		ug/L		06/17/19 09:48	06/20/19 15:32	1
p-Chloro-m-cresol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
p-Dimethylamino azobenzene	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Pentachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Pentachloronitrobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Pentachlorophenol	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Phenacetin	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
Phenanthrene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Phenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Phorate	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Pronamide	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Pyrene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
Safrole	ND		200		ug/L		06/17/19 09:48	06/20/19 15:32	1
2-sec-Butyl-4,6-dinitrophenol	ND		28		ug/L		06/17/19 09:48	06/20/19 15:32	1
1,2,4,5-Tetrachlorobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,3,4,6-Tetrachlorophenol	ND		80		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4,5-Trichlorophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
2,4,6-Trichlorophenol	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1
1,3,5-Trinitrobenzene	ND		40		ug/L		06/17/19 09:48	06/20/19 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*46 - 124*	*06/17/19 09:48*	*06/20/19 15:32*	*1*
2-Fluorophenol	*23*		*13 - 113*	*06/17/19 09:48*	*06/20/19 15:32*	*1*
Nitrobenzene-d5	*60*		*36 - 126*	*06/17/19 09:48*	*06/20/19 15:32*	*1*
Phenol-d5	*49*		*17 - 127*	*06/17/19 09:48*	*06/20/19 15:32*	*1*
Terphenyl-d14	*69*		*44 - 149*	*06/17/19 09:48*	*06/20/19 15:32*	*1*
2,4,6-Tribromophenol	*63*		*26 - 150*	*06/17/19 09:48*	*06/20/19 15:32*	*1*

Lab Sample ID: MB 400-444688/1-A
Matrix: Water
Analysis Batch: 446427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kepone	ND		80		ug/L		06/17/19 09:48	07/01/19 16:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444688/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 445160
Prep Batch: 444688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	103		ug/L		86	54 - 125
Acenaphthylene	120	110		ug/L		91	44 - 130
Acetophenone	120	97.4		ug/L		81	46 - 120
2-Acetylaminofluorene	120	131		ug/L		109	52 - 150
4-Aminobiphenyl	120	140		ug/L		117	16 - 124
Anthracene	120	108		ug/L		90	61 - 120
1,4-Benzenediamine	120	69.4	J	ug/L		58	10 - 120
Benzo[a]anthracene	120	111		ug/L		93	59 - 120
Benzo[a]pyrene	120	114		ug/L		95	52 - 126
Benzo[b]fluoranthene	120	111		ug/L		93	33 - 149
Benzo[g,h,i]perylene	120	155		ug/L		129	38 - 150
Benzo[k]fluoranthene	120	109		ug/L		91	51 - 130
Benzyl alcohol	120	116		ug/L		97	28 - 120
Bis(2-chloroethoxy)methane	120	102		ug/L		85	47 - 120
Bis(2-chloroethyl)ether	120	95.6		ug/L		80	44 - 120
Bis(2-ethylhexyl) phthalate	120	116		ug/L		97	52 - 147
4-Bromophenyl phenyl ether	120	115		ug/L		96	54 - 122
Butyl benzyl phthalate	120	118		ug/L		98	54 - 133
2-Chloronaphthalene	120	104		ug/L		87	52 - 121
2-Chlorophenol	120	84.3		ug/L		70	40 - 120
4-Chlorophenyl phenyl ether	120	113		ug/L		94	56 - 125
Chrysene	120	116		ug/L		96	61 - 121
Diallate	120	91.3		ug/L		76	30 - 141
Dibenz(a,h)anthracene	120	138		ug/L		115	40 - 150
Dibenzofuran	120	110		ug/L		91	56 - 122
3,3'-Dichlorobenzidine	240	507	E *	ug/L		211	36 - 132
2,4-Dichlorophenol	120	108		ug/L		90	49 - 120
2,6-Dichlorophenol	120	105		ug/L		88	49 - 120
Diethyl phthalate	120	121		ug/L		101	50 - 137
Dimethoate	120	105	J	ug/L		87	10 - 150
7,12-Dimethylbenz(a)anthracene	120	300	*	ug/L		250	46 - 150
3,3'-Dimethylbenzidine	120	177	J	ug/L		148	10 - 150
2,4-Dimethylphenol	120	108		ug/L		90	48 - 120
Dimethyl phthalate	120	117		ug/L		98	57 - 124
Di-n-butyl phthalate	120	117		ug/L		97	58 - 126
4,6-Dinitro-o-cresol	240	263		ug/L		110	23 - 148
2,4-Dinitrophenol	240	229		ug/L		95	10 - 150
2,4-Dinitrotoluene	120	122		ug/L		102	54 - 142
2,6-Dinitrotoluene	120	121		ug/L		101	55 - 130
Di-n-octyl phthalate	120	133		ug/L		111	57 - 138
Di-n-propylnitrosamine	120	103		ug/L		86	45 - 120
Disulfoton	120	97.8		ug/L		82	32 - 138
Ethyl methanesulfonate	120	105	J	ug/L		88	40 - 123
Famphur	120	32.2	J	ug/L		27	10 - 150
Fluoranthene	120	112		ug/L		93	56 - 128
Fluorene	120	116		ug/L		97	54 - 124
Hexachlorobenzene	120	124		ug/L		103	52 - 129
Hexachlorobutadiene	120	72.3		ug/L		60	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444688/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 445160
Prep Batch: 444688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	120	54.1		ug/L		45	10 - 134
Hexachloroethane	120	71.9		ug/L		60	41 - 120
Hexachloropropene	120	52.7		ug/L		44	38 - 136
Indeno[1,2,3-cd]pyrene	120	134		ug/L		111	41 - 150
Isophorone	120	102		ug/L		85	48 - 120
Isosafrole	120	269	*	ug/L		224	31 - 136
m-Dinitrobenzene	120	125	J	ug/L		104	56 - 141
Methapyrilene	120	144	J	ug/L		120	10 - 142
3-Methylcholanthrene	120	93.0	J	ug/L		77	27 - 150
Methyl methanesulfonate	120	132	J	ug/L		110	36 - 121
2-Methylnaphthalene	120	91.1		ug/L		76	50 - 121
Methyl parathion	120	99.9		ug/L		83	18 - 150
m & p - Cresol	120	102		ug/L		85	45 - 120
1,4-Naphthoquinone	120	99.2	J	ug/L		83	35 - 137
1-Naphthylamine	120	98.9	J	ug/L		82	14 - 125
2-Naphthylamine	120	130	J	ug/L		109	10 - 150
2-Nitroaniline	120	113	J	ug/L		94	51 - 145
3-Nitroaniline	120	118	J	ug/L		99	37 - 127
Nitroaniline, p-	120	147	J	ug/L		123	36 - 137
Nitrobenzene	120	102		ug/L		85	45 - 120
5-Nitro-o-toluidine	120	110		ug/L		92	36 - 130
2-Nitrophenol	120	92.6		ug/L		77	40 - 124
4-Nitrophenol	240	242		ug/L		101	23 - 146
N-Nitrosodiethylamine	120	108		ug/L		90	40 - 125
N-Nitrosodimethylamine	120	106		ug/L		88	29 - 137
N-Nitrosodi-n-butylamine	120	100		ug/L		84	42 - 143
N-Nitrosodiphenylamine	119	115		ug/L		96	54 - 120
N-Nitrosomethylethylamine	120	102		ug/L		85	19 - 135
N-Nitrosopiperidine	120	105		ug/L		88	32 - 137
N-Nitrosopyrrolidine	120	102		ug/L		85	41 - 127
o-Cresol	120	107		ug/L		89	46 - 124
o,o',o''-Triethylphosphorothioate	120	105		ug/L		88	36 - 134
o-Toluidine	120	95.8		ug/L		80	36 - 120
2,2'-oxybis[1-chloropropane]	120	87.9		ug/L		73	33 - 121
Parathion	120	103		ug/L		86	41 - 150
p-Chloroaniline	120	74.6	J	ug/L		62	26 - 120
p-Chloro-m-cresol	120	113		ug/L		94	48 - 131
p-Dimethylamino azobenzene	120	96.6	J	ug/L		81	53 - 145
Pentachlorobenzene	120	93.2		ug/L		78	49 - 131
Pentachloronitrobenzene	120	120		ug/L		100	58 - 143
Pentachlorophenol	240	269		ug/L		112	31 - 130
Phenacetin	120	120	J	ug/L		100	44 - 150
Phenanthrene	120	109		ug/L		91	61 - 120
Phenol	120	92.0		ug/L		77	40 - 120
Phorate	120	87.6		ug/L		73	14 - 150
Pronamide	120	127		ug/L		106	48 - 123
Pyrene	120	112		ug/L		93	53 - 128
Safrole	120	97.6	J	ug/L		81	12 - 150
2-sec-Butyl-4,6-dinitrophenol	120	139		ug/L		116	40 - 148

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444688/2-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	120	93.8		ug/L		78	50 - 120
2,3,4,6-Tetrachlorophenol	120	130		ug/L		108	51 - 149
2,4,5-Trichlorophenol	120	116		ug/L		97	51 - 136
2,4,6-Trichlorophenol	120	119		ug/L		99	50 - 127
1,3,5-Trinitrobenzene	120	113		ug/L		94	10 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*46 - 124*
2-Fluorophenol	*34*		*13 - 113*
Nitrobenzene-d5	*86*		*36 - 126*
Phenol-d5	*73*		*17 - 127*
Terphenyl-d14	*104*		*44 - 149*
2,4,6-Tribromophenol	*94*		*26 - 150*

Lab Sample ID: LCS 400-444688/6-A
Matrix: Water
Analysis Batch: 446427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Kepone	200	128		ug/L		64	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*46 - 124*
2-Fluorophenol	*56*		*13 - 113*
Nitrobenzene-d5	*85*		*36 - 126*
Phenol-d5	*79*		*17 - 127*
Terphenyl-d14	*114*		*44 - 149*
2,4,6-Tribromophenol	*96*		*26 - 150*

Lab Sample ID: LCSD 400-444688/3-A
Matrix: Water
Analysis Batch: 445160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	120	120		ug/L		100	54 - 125	15	30
Acenaphthylene	120	125		ug/L		104	44 - 130	13	30
Acetophenone	120	101		ug/L		84	46 - 120	3	30
2-Acetylaminofluorene	120	131		ug/L		109	52 - 150	0	30
4-Aminobiphenyl	120	155	*	ug/L		130	16 - 124	10	30
Anthracene	120	123		ug/L		102	61 - 120	13	30
1,4-Benzenediamine	120	78.1	J	ug/L		65	10 - 120	12	30
Benzo[a]anthracene	120	120		ug/L		100	59 - 120	8	30
Benzo[a]pyrene	120	122		ug/L		102	52 - 126	8	30
Benzo[b]fluoranthene	120	119		ug/L		99	33 - 149	7	30
Benzo[g,h,i]perylene	120	168		ug/L		140	38 - 150	9	30
Benzo[k]fluoranthene	120	116		ug/L		97	51 - 130	6	30
Benzyl alcohol	120	125		ug/L		104	28 - 120	7	30
Bis(2-chloroethoxy)methane	120	104		ug/L		87	47 - 120	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-444688/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 445160
Prep Batch: 444688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	120	101		ug/L		84	44 - 120	5	30
Bis(2-ethylhexyl) phthalate	120	134		ug/L		112	52 - 147	15	30
4-Bromophenyl phenyl ether	120	133		ug/L		111	54 - 122	14	30
Butyl benzyl phthalate	120	126		ug/L		105	54 - 133	6	30
2-Chloronaphthalene	120	119		ug/L		99	52 - 121	14	30
2-Chlorophenol	120	106		ug/L		88	40 - 120	23	30
4-Chlorophenyl phenyl ether	120	129		ug/L		108	56 - 125	14	30
Chrysene	120	124		ug/L		103	61 - 121	7	30
Diallate	120	103		ug/L		86	30 - 141	12	30
Dibenz(a,h)anthracene	120	153		ug/L		127	40 - 150	10	30
Dibenzofuran	120	123		ug/L		102	56 - 122	11	30
3,3'-Dichlorobenzidine	240	532	* E	ug/L		222	36 - 132	5	30
2,4-Dichlorophenol	120	121		ug/L		101	49 - 120	11	30
2,6-Dichlorophenol	120	121		ug/L		101	49 - 120	14	30
Diethyl phthalate	120	129		ug/L		108	50 - 137	6	30
Dimethoate	120	109	J	ug/L		91	10 - 150	4	30
7,12-Dimethylbenz(a)anthracene	120	334	*	ug/L		278	46 - 150	11	30
3,3'-Dimethylbenzidine	120	173	J	ug/L		144	10 - 150	2	30
2,4-Dimethylphenol	120	115		ug/L		96	48 - 120	6	30
Dimethyl phthalate	120	131		ug/L		109	57 - 124	11	30
Di-n-butyl phthalate	120	123		ug/L		102	58 - 126	5	30
4,6-Dinitro-o-cresol	240	307		ug/L		128	23 - 148	15	30
2,4-Dinitrophenol	240	378	*	ug/L		158	10 - 150	49	30
2,4-Dinitrotoluene	120	134		ug/L		112	54 - 142	10	30
2,6-Dinitrotoluene	120	134		ug/L		112	55 - 130	10	30
Di-n-octyl phthalate	120	151		ug/L		126	57 - 138	12	30
Di-n-propylnitrosamine	120	108		ug/L		90	45 - 120	5	30
Disulfoton	120	110		ug/L		92	32 - 138	12	30
Ethyl methanesulfonate	120	110	J	ug/L		91	40 - 123	4	30
Famphur	120	36.8	J	ug/L		31	10 - 150	13	30
Fluoranthene	120	115		ug/L		96	56 - 128	3	30
Fluorene	120	131		ug/L		109	54 - 124	12	30
Hexachlorobenzene	120	140		ug/L		117	52 - 129	12	30
Hexachlorobutadiene	120	75.5		ug/L		63	45 - 120	4	30
Hexachlorocyclopentadiene	120	65.5		ug/L		55	10 - 134	19	30
Hexachloroethane	120	67.4		ug/L		56	41 - 120	7	30
Hexachloropropene	120	69.4		ug/L		58	38 - 136	27	30
Indeno[1,2,3-cd]pyrene	120	148		ug/L		123	41 - 150	10	30
Isophorone	120	107		ug/L		89	48 - 120	5	30
Isosafrole	120	302	*	ug/L		251	31 - 136	11	30
m-Dinitrobenzene	120	143	J	ug/L		119	56 - 141	13	30
Methapyrilene	120	147	J	ug/L		122	10 - 142	2	30
3-Methylcholanthrene	120	104	J	ug/L		87	27 - 150	11	30
Methyl methanesulfonate	120	141	J	ug/L		118	36 - 121	7	30
2-Methylnaphthalene	120	105		ug/L		87	50 - 121	14	30
Methyl parathion	120	104		ug/L		87	18 - 150	4	30
m & p - Cresol	120	113		ug/L		94	45 - 120	10	30
1,4-Naphthoquinone	120	104	J	ug/L		87	35 - 137	5	30
1-Naphthylamine	120	99.8	J	ug/L		83	14 - 125	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-444688/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 445160
Prep Batch: 444688

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Naphthylamine			120	143	J	ug/L		119	10 - 150	9	30
2-Nitroaniline			120	121	J	ug/L		101	51 - 145	7	30
3-Nitroaniline			120	134	J	ug/L		112	37 - 127	12	30
Nitroaniline, p-			120	158	J	ug/L		131	36 - 137	7	30
Nitrobenzene			120	107		ug/L		90	45 - 120	5	30
5-Nitro-o-toluidine			120	122		ug/L		101	36 - 130	10	30
2-Nitrophenol			120	105		ug/L		87	40 - 124	12	30
4-Nitrophenol			240	274		ug/L		114	23 - 146	12	30
N-Nitrosodiethylamine			120	113		ug/L		94	40 - 125	5	30
N-Nitrosodimethylamine			120	113		ug/L		94	29 - 137	6	30
N-Nitrosodi-n-butylamine			120	112		ug/L		93	42 - 143	11	30
N-Nitrosodiphenylamine			119	126		ug/L		105	54 - 120	9	30
N-Nitrosomethylethylamine			120	101		ug/L		84	19 - 135	1	30
N-Nitrosopiperidine			120	109		ug/L		91	32 - 137	4	30
N-Nitrosopyrrolidine			120	106		ug/L		88	41 - 127	3	30
o-Cresol			120	115		ug/L		96	46 - 124	8	30
o,o',o''-Triethylphosphorothioate			120	116		ug/L		96	36 - 134	9	30
o-Toluidine			120	103		ug/L		86	36 - 120	7	30
2,2'-oxybis[1-chloropropane]			120	87.9		ug/L		73	33 - 121	0	30
Parathion			120	109		ug/L		91	41 - 150	5	30
p-Chloroaniline			120	83.0		ug/L		69	26 - 120	11	30
p-Chloro-m-cresol			120	127		ug/L		106	48 - 131	12	30
p-Dimethylamino azobenzene			120	112	J	ug/L		94	53 - 145	15	30
Pentachlorobenzene			120	116		ug/L		97	49 - 131	22	30
Pentachloronitrobenzene			120	143		ug/L		119	58 - 143	17	30
Pentachlorophenol			240	305		ug/L		127	31 - 130	13	30
Phenacetin			120	125	J	ug/L		104	44 - 150	3	30
Phenanthrene			120	120		ug/L		100	61 - 120	10	30
Phenol			120	108		ug/L		90	40 - 120	16	30
Phorate			120	98.3		ug/L		82	14 - 150	12	30
Pronamide			120	131		ug/L		109	48 - 123	3	30
Pyrene			120	128		ug/L		107	53 - 128	13	30
Safrole			120	113	J	ug/L		94	12 - 150	15	30
2-sec-Butyl-4,6-dinitrophenol			120	150		ug/L		125	40 - 148	8	30
1,2,4,5-Tetrachlorobenzene			120	112		ug/L		94	50 - 120	18	30
2,3,4,6-Tetrachlorophenol			120	146		ug/L		122	51 - 149	12	30
2,4,5-Trichlorophenol			120	130		ug/L		108	51 - 136	11	30
2,4,6-Trichlorophenol			120	132		ug/L		110	50 - 127	11	30
1,3,5-Trinitrobenzene			120	113		ug/L		94	10 - 150	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*46 - 124*
2-Fluorophenol	*60*		*13 - 113*
Nitrobenzene-d5	*91*		*36 - 126*
Phenol-d5	*86*		*17 - 127*
Terphenyl-d14	*115*		*44 - 149*
2,4,6-Tribromophenol	*109*		*26 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-444688/7-A
Matrix: Water
Analysis Batch: 446427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444688

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Kepone			200	108		ug/L		54	20 - 150	17	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*46 - 124*
2-Fluorophenol	*75*		*13 - 113*
Nitrobenzene-d5	*76*		*36 - 126*
Phenol-d5	*80*		*17 - 127*
Terphenyl-d14	*100*		*44 - 149*
2,4,6-Tribromophenol	*88*		*26 - 150*

Lab Sample ID: MB 400-444898/1-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Acenaphthylene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Acetophenone	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Acetylaminofluorene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
4-Aminobiphenyl	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Anthracene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
1,4-Benzenediamine	ND		8000		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzo[a]anthracene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzo[a]pyrene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzo[b]fluoranthene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzo[g,h,i]perylene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzo[k]fluoranthene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Benzyl alcohol	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
Bis(2-chloroethoxy)methane	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Bis(2-chloroethyl)ether	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		06/18/19 15:26	06/25/19 22:11	1
4-Bromophenyl phenyl ether	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Butyl benzyl phthalate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Chloronaphthalene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Chlorophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
4-Chlorophenyl phenyl ether	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Chrysene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Diallate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Dibenz(a,h)anthracene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Dibenzofuran	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
3,3'-Dichlorobenzidine	ND		240		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4-Dichlorophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,6-Dichlorophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Diethyl phthalate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Dimethoate	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
3,3'-Dimethylbenzidine	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4-Dimethylphenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-444898/1-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Di-n-butyl phthalate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
4,6-Dinitro-o-cresol	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4-Dinitrophenol	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4-Dinitrotoluene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,6-Dinitrotoluene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Di-n-octyl phthalate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Di-n-propylnitrosamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Disulfoton	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Ethyl methanesulfonate	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Famphur	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Fluoranthene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Fluorene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Hexachlorobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Hexachlorobutadiene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Hexachlorocyclopentadiene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Hexachloroethane	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Hexachloropropene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Isophorone	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Isosafrole	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Kepone	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
m-Dinitrobenzene	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Methapyrilene	ND		8000		ug/L		06/18/19 15:26	06/25/19 22:11	1
3-Methylcholanthrene	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Methyl methanesulfonate	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Methylnaphthalene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Methyl parathion	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
m & p - Cresol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
1,4-Naphthoquinone	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
1-Naphthylamine	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Naphthylamine	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Nitroaniline	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
3-Nitroaniline	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Nitroaniline, p-	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Nitrobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
5-Nitro-o-toluidine	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-Nitrophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
4-Nitrophenol	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosodiethylamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosodimethylamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosodi-n-butylamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosodiphenylamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosomethylethylamine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosopiperidine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
N-Nitrosopyrrolidine	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
o-Cresol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
o,o',o''-Triethylphosphorothioate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
o-Toluidine	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-444898/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 445656 **Prep Batch: 444898**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Parathion	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
p-Chloroaniline	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
p-Chloro-m-cresol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
p-Dimethylamino azobenzene	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Pentachlorobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Pentachloronitrobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Pentachlorophenol	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Phenacetin	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
Phenanthrene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Phenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Phorate	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Pronamide	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Pyrene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
Safrole	ND		200		ug/L		06/18/19 15:26	06/25/19 22:11	1
2-sec-Butyl-4,6-dinitrophenol	ND		28		ug/L		06/18/19 15:26	06/25/19 22:11	1
1,2,4,5-Tetrachlorobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,3,4,6-Tetrachlorophenol	ND		80		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4,5-Trichlorophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
2,4,6-Trichlorophenol	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1
1,3,5-Trinitrobenzene	ND		40		ug/L		06/18/19 15:26	06/25/19 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*46 - 124*	*06/18/19 15:26*	*06/25/19 22:11*	*1*
2-Fluorophenol	*55*		*13 - 113*	*06/18/19 15:26*	*06/25/19 22:11*	*1*
Nitrobenzene-d5	*71*		*36 - 126*	*06/18/19 15:26*	*06/25/19 22:11*	*1*
Phenol-d5	*70*		*17 - 127*	*06/18/19 15:26*	*06/25/19 22:11*	*1*
Terphenyl-d14	*80*		*44 - 149*	*06/18/19 15:26*	*06/25/19 22:11*	*1*
2,4,6-Tribromophenol	*56*		*26 - 150*	*06/18/19 15:26*	*06/25/19 22:11*	*1*

Lab Sample ID: LCS 400-444898/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 445656 **Prep Batch: 444898**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	112		ug/L		93	54 - 125
Acenaphthylene	120	116		ug/L		97	44 - 130
Acetophenone	120	96.7		ug/L		81	46 - 120
2-Acetylaminofluorene	120	120		ug/L		100	52 - 150
4-Aminobiphenyl	120	141		ug/L		118	16 - 124
Anthracene	120	122		ug/L		102	61 - 120
1,4-Benzenediamine	120	132	J	ug/L		110	10 - 120
Benzo[a]anthracene	120	116		ug/L		97	59 - 120
Benzo[a]pyrene	120	112		ug/L		93	52 - 126
Benzo[b]fluoranthene	120	118		ug/L		98	33 - 149
Benzo[g,h,i]perylene	120	163		ug/L		136	38 - 150
Benzo[k]fluoranthene	120	112		ug/L		93	51 - 130
Benzyl alcohol	120	111		ug/L		92	28 - 120

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444898/2-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	120	98.9		ug/L		82	47 - 120
Bis(2-chloroethyl)ether	120	93.7		ug/L		78	44 - 120
Bis(2-ethylhexyl) phthalate	120	128		ug/L		107	52 - 147
4-Bromophenyl phenyl ether	120	124		ug/L		104	54 - 122
Butyl benzyl phthalate	120	120		ug/L		100	54 - 133
2-Chloronaphthalene	120	108		ug/L		90	52 - 121
2-Chlorophenol	120	106		ug/L		88	40 - 120
4-Chlorophenyl phenyl ether	120	126		ug/L		105	56 - 125
Chrysene	120	122		ug/L		102	61 - 121
Diallate	120	106		ug/L		88	30 - 141
Dibenz(a,h)anthracene	120	146		ug/L		122	40 - 150
Dibenzofuran	120	121		ug/L		101	56 - 122
3,3'-Dichlorobenzidine	160	315	*	ug/L		197	36 - 132
2,4-Dichlorophenol	120	118		ug/L		99	49 - 120
2,6-Dichlorophenol	120	113		ug/L		94	49 - 120
Diethyl phthalate	120	125		ug/L		104	50 - 137
Dimethoate	120	117	J	ug/L		98	10 - 150
7,12-Dimethylbenz(a)anthracene	120	353	*	ug/L		294	46 - 150
3,3'-Dimethylbenzidine	120	174	J	ug/L		145	10 - 150
2,4-Dimethylphenol	120	112		ug/L		93	48 - 120
Dimethyl phthalate	120	125		ug/L		104	57 - 124
Di-n-butyl phthalate	120	128		ug/L		106	58 - 126
4,6-Dinitro-o-cresol	240	288		ug/L		120	23 - 148
2,4-Dinitrophenol	240	350		ug/L		146	10 - 150
2,4-Dinitrotoluene	120	131		ug/L		109	54 - 142
2,6-Dinitrotoluene	120	131		ug/L		109	55 - 130
Di-n-octyl phthalate	120	144		ug/L		120	57 - 138
Di-n-propylnitrosamine	120	99.9		ug/L		83	45 - 120
Disulfoton	120	108		ug/L		90	32 - 138
Ethyl methanesulfonate	120	87.9	J	ug/L		73	40 - 123
Famphur	120	17.3	J	ug/L		14	10 - 150
Fluoranthene	120	122		ug/L		102	56 - 128
Fluorene	120	127		ug/L		106	54 - 124
Hexachlorobenzene	120	135		ug/L		113	52 - 129
Hexachlorobutadiene	120	76.1		ug/L		63	45 - 120
Hexachlorocyclopentadiene	120	56.0		ug/L		47	10 - 134
Hexachloroethane	120	75.9		ug/L		63	41 - 120
Hexachloropropene	120	61.9		ug/L		52	38 - 136
Indeno[1,2,3-cd]pyrene	120	145		ug/L		121	41 - 150
Isophorone	120	101		ug/L		84	48 - 120
Isosafrole	120	302	*	ug/L		251	31 - 136
m-Dinitrobenzene	120	136	J	ug/L		113	56 - 141
Methapyrilene	120	121	J	ug/L		101	10 - 142
3-Methylcholanthrene	120	110	J	ug/L		92	27 - 150
Methyl methanesulfonate	120	105	J	ug/L		88	36 - 121
2-Methylnaphthalene	120	96.7		ug/L		81	50 - 121
Methyl parathion	120	120		ug/L		100	18 - 150
m & p - Cresol	120	104		ug/L		86	45 - 120
1,4-Naphthoquinone	120	109	J	ug/L		91	35 - 137

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170257-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444898/2-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Naphthylamine	120	108	J	ug/L		90	14 - 125
2-Naphthylamine	120	161	J	ug/L		135	10 - 150
2-Nitroaniline	120	118	J	ug/L		98	51 - 145
3-Nitroaniline	120	129	J	ug/L		107	37 - 127
Nitroaniline, p-	120	150	J	ug/L		125	36 - 137
Nitrobenzene	120	102		ug/L		85	45 - 120
5-Nitro-o-toluidine	120	119		ug/L		99	36 - 130
2-Nitrophenol	120	101		ug/L		84	40 - 124
4-Nitrophenol	240	267		ug/L		111	23 - 146
N-Nitrosodiethylamine	120	109		ug/L		90	40 - 125
N-Nitrosodimethylamine	120	109		ug/L		91	29 - 137
N-Nitrosodi-n-butylamine	120	114		ug/L		95	42 - 143
N-Nitrosodiphenylamine	119	116		ug/L		97	54 - 120
N-Nitrosomethylethylamine	120	96.8		ug/L		81	19 - 135
N-Nitrosopiperidine	120	104		ug/L		87	32 - 137
N-Nitrosopyrrolidine	120	105		ug/L		87	41 - 127
o-Cresol	120	109		ug/L		91	46 - 124
o,o',o''-Triethylphosphorothioate	120	115		ug/L		96	36 - 134
o-Toluidine	120	101		ug/L		84	36 - 120
2,2'-oxybis[1-chloropropane]	120	80.2		ug/L		67	33 - 121
Parathion	120	122		ug/L		102	41 - 150
p-Chloroaniline	120	97.2		ug/L		81	26 - 120
p-Chloro-m-cresol	120	125		ug/L		105	48 - 131
p-Dimethylamino azobenzene	120	124	J	ug/L		103	53 - 145
Pentachlorobenzene	120	110		ug/L		92	49 - 131
Pentachloronitrobenzene	120	148		ug/L		123	58 - 143
Pentachlorophenol	240	275		ug/L		115	31 - 130
Phenacetin	120	116	J	ug/L		97	44 - 150
Phenanthrene	120	119		ug/L		99	61 - 120
Phenol	120	100		ug/L		84	40 - 120
Phorate	120	93.8		ug/L		78	14 - 150
Pronamide	120	130		ug/L		108	48 - 123
Pyrene	120	120		ug/L		100	53 - 128
Safrole	120	112	J	ug/L		93	12 - 150
2-sec-Butyl-4,6-dinitrophenol	120	148		ug/L		124	40 - 148
1,2,4,5-Tetrachlorobenzene	120	96.8		ug/L		81	50 - 120
2,3,4,6-Tetrachlorophenol	120	144		ug/L		120	51 - 149
2,4,5-Trichlorophenol	120	126		ug/L		105	51 - 136
2,4,6-Trichlorophenol	120	126		ug/L		105	50 - 127
1,3,5-Trinitrobenzene	120	108		ug/L		90	10 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*46 - 124*
2-Fluorophenol	*72*		*13 - 113*
Nitrobenzene-d5	*90*		*36 - 126*
Phenol-d5	*85*		*17 - 127*
Terphenyl-d14	*111*		*44 - 149*
2,4,6-Tribromophenol	*106*		*26 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-444898/4-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444898

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Kepone			200	41.3	J	ug/L		21	20 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*46 - 124*
2-Fluorophenol	*62*		*13 - 113*
Nitrobenzene-d5	*83*		*36 - 126*
Phenol-d5	*79*		*17 - 127*
Terphenyl-d14	*103*		*44 - 149*
2,4,6-Tribromophenol	*80*		*26 - 150*

Lab Sample ID: LCSD 400-444898/3-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444898

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			120	114		ug/L		95	54 - 125	2	30
Acenaphthylene			120	119		ug/L		99	44 - 130	2	30
Acetophenone			120	99.8		ug/L		83	46 - 120	3	30
2-Acetylaminofluorene			120	121		ug/L		101	52 - 150	1	30
4-Aminobiphenyl			120	145		ug/L		121	16 - 124	3	30
Anthracene			120	122		ug/L		102	61 - 120	0	30
1,4-Benzenediamine			120	125	J	ug/L		104	10 - 120	5	30
Benzo[a]anthracene			120	115		ug/L		96	59 - 120	1	30
Benzo[a]pyrene			120	112		ug/L		93	52 - 126	1	30
Benzo[b]fluoranthene			120	117		ug/L		97	33 - 149	1	30
Benzo[g,h,i]perylene			120	150		ug/L		125	38 - 150	8	30
Benzo[k]fluoranthene			120	114		ug/L		95	51 - 130	2	30
Benzyl alcohol			120	114		ug/L		95	28 - 120	3	30
Bis(2-chloroethoxy)methane			120	100		ug/L		84	47 - 120	2	30
Bis(2-chloroethyl)ether			120	95.5		ug/L		80	44 - 120	2	30
Bis(2-ethylhexyl) phthalate			120	125		ug/L		104	52 - 147	3	30
4-Bromophenyl phenyl ether			120	126		ug/L		105	54 - 122	1	30
Butyl benzyl phthalate			120	118		ug/L		98	54 - 133	2	30
2-Chloronaphthalene			120	115		ug/L		96	52 - 121	6	30
2-Chlorophenol			120	105		ug/L		87	40 - 120	1	30
4-Chlorophenyl phenyl ether			120	126		ug/L		105	56 - 125	0	30
Chrysene			120	120		ug/L		100	61 - 121	2	30
Diallate			120	104		ug/L		86	30 - 141	2	30
Dibenz(a,h)anthracene			120	138		ug/L		115	40 - 150	6	30
Dibenzofuran			120	123		ug/L		102	56 - 122	1	30
3,3'-Dichlorobenzidine			160	314	*	ug/L		196	36 - 132	0	30
2,4-Dichlorophenol			120	119		ug/L		99	49 - 120	0	30
2,6-Dichlorophenol			120	116		ug/L		97	49 - 120	3	30
Diethyl phthalate			120	124		ug/L		103	50 - 137	1	30
Dimethoate			120	113	J	ug/L		94	10 - 150	4	30
7,12-Dimethylbenz(a)anthracene			120	341	*	ug/L		284	46 - 150	4	30
3,3'-Dimethylbenzidine			120	186	J *	ug/L		155	10 - 150	7	30
2,4-Dimethylphenol			120	113		ug/L		94	48 - 120	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-444898/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 445656
Prep Batch: 444898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate	120	125		ug/L		104	57 - 124	0	30
Di-n-butyl phthalate	120	125		ug/L		104	58 - 126	2	30
4,6-Dinitro-o-cresol	240	285		ug/L		119	23 - 148	1	30
2,4-Dinitrophenol	240	343		ug/L		143	10 - 150	2	30
2,4-Dinitrotoluene	120	133		ug/L		111	54 - 142	1	30
2,6-Dinitrotoluene	120	131		ug/L		109	55 - 130	0	30
Di-n-octyl phthalate	120	141		ug/L		118	57 - 138	2	30
Di-n-propylnitrosamine	120	102		ug/L		85	45 - 120	2	30
Disulfoton	120	111		ug/L		93	32 - 138	3	30
Ethyl methanesulfonate	120	89.0	J	ug/L		74	40 - 123	1	30
Famphur	120	12.4	J *	ug/L		10	10 - 150	33	30
Fluoranthene	120	122		ug/L		102	56 - 128	0	30
Fluorene	120	127		ug/L		106	54 - 124	1	30
Hexachlorobenzene	120	132		ug/L		110	52 - 129	2	30
Hexachlorobutadiene	120	75.1		ug/L		63	45 - 120	1	30
Hexachlorocyclopentadiene	120	62.8		ug/L		52	10 - 134	11	30
Hexachloroethane	120	75.4		ug/L		63	41 - 120	1	30
Hexachloropropene	120	59.5		ug/L		50	38 - 136	4	30
Indeno[1,2,3-cd]pyrene	120	137		ug/L		114	41 - 150	5	30
Isophorone	120	103		ug/L		86	48 - 120	2	30
Isosafrole	120	309	*	ug/L		257	31 - 136	2	30
m-Dinitrobenzene	120	138	J	ug/L		115	56 - 141	1	30
Methapyrilene	120	119	J	ug/L		99	10 - 142	2	30
3-Methylcholanthrene	120	104	J	ug/L		87	27 - 150	5	30
Methyl methanesulfonate	120	106	J	ug/L		88	36 - 121	1	30
2-Methylnaphthalene	120	103		ug/L		86	50 - 121	7	30
Methyl parathion	120	114		ug/L		95	18 - 150	5	30
m & p - Cresol	120	104		ug/L		87	45 - 120	0	30
1,4-Naphthoquinone	120	112	J	ug/L		93	35 - 137	2	30
1-Naphthylamine	120	111	J	ug/L		93	14 - 125	3	30
2-Naphthylamine	120	162	J	ug/L		135	10 - 150	1	30
2-Nitroaniline	120	118	J	ug/L		98	51 - 145	0	30
3-Nitroaniline	120	129	J	ug/L		108	37 - 127	0	30
Nitroaniline, p-	120	148	J	ug/L		123	36 - 137	2	30
Nitrobenzene	120	103		ug/L		86	45 - 120	2	30
5-Nitro-o-toluidine	120	120		ug/L		100	36 - 130	1	30
2-Nitrophenol	120	101		ug/L		84	40 - 124	0	30
4-Nitrophenol	240	258		ug/L		108	23 - 146	3	30
N-Nitrosodiethylamine	120	109		ug/L		91	40 - 125	0	30
N-Nitrosodimethylamine	120	100		ug/L		83	29 - 137	9	30
N-Nitrosodi-n-butylamine	120	114		ug/L		95	42 - 143	0	30
N-Nitrosodiphenylamine	119	118		ug/L		99	54 - 120	2	30
N-Nitrosomethylethylamine	120	98.9		ug/L		82	19 - 135	2	30
N-Nitrosopiperidine	120	105		ug/L		88	32 - 137	1	30
N-Nitrosopyrrolidine	120	107		ug/L		89	41 - 127	2	30
o-Cresol	120	107		ug/L		89	46 - 124	2	30
o,o',o''-Triethylphosphorothioate	120	115		ug/L		96	36 - 134	0	30
o-Toluidine	120	102		ug/L		85	36 - 120	1	30
2,2'-oxybis[1-chloropropane]	120	81.3		ug/L		68	33 - 121	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-444898/3-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444898

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Parathion			120	118		ug/L		98	41 - 150	3	30
p-Chloroaniline			120	101		ug/L		84	26 - 120	3	30
p-Chloro-m-cresol			120	129		ug/L		107	48 - 131	3	30
p-Dimethylamino azobenzene			120	118	J	ug/L		98	53 - 145	5	30
Pentachlorobenzene			120	113		ug/L		95	49 - 131	3	30
Pentachloronitrobenzene			120	139		ug/L		116	58 - 143	6	30
Pentachlorophenol			240	275		ug/L		115	31 - 130	0	30
Phenacetin			120	117	J	ug/L		98	44 - 150	1	30
Phenanthrene			120	119		ug/L		99	61 - 120	0	30
Phenol			120	99.9		ug/L		83	40 - 120	1	30
Phorate			120	92.8		ug/L		77	14 - 150	1	30
Pronamide			120	131		ug/L		109	48 - 123	1	30
Pyrene			120	115		ug/L		96	53 - 128	4	30
Safrole			120	116	J	ug/L		97	12 - 150	4	30
2-sec-Butyl-4,6-dinitrophenol			120	148		ug/L		123	40 - 148	0	30
1,2,4,5-Tetrachlorobenzene			120	104		ug/L		87	50 - 120	7	30
2,3,4,6-Tetrachlorophenol			120	143		ug/L		119	51 - 149	0	30
2,4,5-Trichlorophenol			120	126		ug/L		105	51 - 136	0	30
2,4,6-Trichlorophenol			120	126		ug/L		105	50 - 127	0	30
1,3,5-Trinitrobenzene			120	103		ug/L		86	10 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*46 - 124*
2-Fluorophenol	*67*		*13 - 113*
Nitrobenzene-d5	*92*		*36 - 126*
Phenol-d5	*84*		*17 - 127*
Terphenyl-d14	*108*		*44 - 149*
2,4,6-Tribromophenol	*106*		*26 - 150*

Lab Sample ID: LCSD 400-444898/5-A
Matrix: Water
Analysis Batch: 445656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444898

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Kepone			200	66.6	J *	ug/L		33	20 - 150	47	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*46 - 124*
2-Fluorophenol	*54*		*13 - 113*
Nitrobenzene-d5	*89*		*36 - 126*
Phenol-d5	*79*		*17 - 127*
Terphenyl-d14	*116*		*44 - 149*
2,4,6-Tribromophenol	*83*		*26 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-445193/1-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Acenaphthylene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Acetophenone	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Acetylaminofluorene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
4-Aminobiphenyl	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Anthracene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
1,4-Benzenediamine	ND		8000		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzo[a]anthracene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzo[a]pyrene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzo[b]fluoranthene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzo[g,h,i]perylene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzo[k]fluoranthene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Benzyl alcohol	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
Bis(2-chloroethoxy)methane	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Bis(2-chloroethyl)ether	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		06/20/19 14:48	06/28/19 22:28	1
4-Bromophenyl phenyl ether	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Butyl benzyl phthalate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Chloronaphthalene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Chlorophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
4-Chlorophenyl phenyl ether	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Chrysene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Diallate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Dibenz(a,h)anthracene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Dibenzofuran	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
3,3'-Dichlorobenzidine	ND		240		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4-Dichlorophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,6-Dichlorophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Diethyl phthalate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Dimethoate	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
3,3'-Dimethylbenzidine	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4-Dimethylphenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Dimethyl phthalate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Di-n-butyl phthalate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
4,6-Dinitro-o-cresol	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4-Dinitrophenol	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4-Dinitrotoluene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,6-Dinitrotoluene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Di-n-octyl phthalate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Di-n-propylnitrosamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Disulfoton	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Ethyl methanesulfonate	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Famphur	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Fluoranthene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Fluorene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Hexachlorobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Hexachlorobutadiene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-445193/1-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Hexachloroethane	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Hexachloropropene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Isophorone	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Isosafrole	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Kepone	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
m-Dinitrobenzene	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Methapyrilene	ND		8000		ug/L		06/20/19 14:48	06/28/19 22:28	1
3-Methylcholanthrene	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Methyl methanesulfonate	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Methylnaphthalene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Methyl parathion	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
m & p - Cresol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
1,4-Naphthoquinone	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
1-Naphthylamine	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Naphthylamine	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Nitroaniline	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
3-Nitroaniline	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Nitroaniline, p-	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Nitrobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
5-Nitro-o-toluidine	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
2-Nitrophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
4-Nitrophenol	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosodiethylamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosodimethylamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosodi-n-butylamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosodiphenylamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosomethylethylamine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosopiperidine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
N-Nitrosopyrrolidine	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
o-Cresol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
o,o',o''-Triethylphosphorothioate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
o-Toluidine	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,2'-oxybis[1-chloropropane]	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Parathion	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
p-Chloroaniline	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
p-Chloro-m-cresol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
p-Dimethylamino azobenzene	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Pentachlorobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Pentachloronitrobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Pentachlorophenol	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Phenacetin	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1
Phenanthrene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Phenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Phorate	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Pronamide	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Pyrene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
Safrole	ND		200		ug/L		06/20/19 14:48	06/28/19 22:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-445193/1-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-sec-Butyl-4,6-dinitrophenol	ND		28		ug/L		06/20/19 14:48	06/28/19 22:28	1
1,2,4,5-Tetrachlorobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,3,4,6-Tetrachlorophenol	ND		80		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4,5-Trichlorophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
2,4,6-Trichlorophenol	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1
1,3,5-Trinitrobenzene	ND		40		ug/L		06/20/19 14:48	06/28/19 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*46 - 124*	*06/20/19 14:48*	*06/28/19 22:28*	*1*
2-Fluorophenol	*45*		*13 - 113*	*06/20/19 14:48*	*06/28/19 22:28*	*1*
Nitrobenzene-d5	*78*		*36 - 126*	*06/20/19 14:48*	*06/28/19 22:28*	*1*
Phenol-d5	*67*		*17 - 127*	*06/20/19 14:48*	*06/28/19 22:28*	*1*
Terphenyl-d14	*90*		*44 - 149*	*06/20/19 14:48*	*06/28/19 22:28*	*1*
2,4,6-Tribromophenol	*71*		*26 - 150*	*06/20/19 14:48*	*06/28/19 22:28*	*1*

Lab Sample ID: LCS 400-445193/2-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	106		ug/L		88	54 - 125
Acenaphthylene	120	108		ug/L		90	44 - 130
Acetophenone	120	91.0		ug/L		76	46 - 120
2-Acetylaminofluorene	120	111		ug/L		93	52 - 150
4-Aminobiphenyl	120	132		ug/L		110	16 - 124
Anthracene	120	113		ug/L		94	61 - 120
1,4-Benzenediamine	120	141	J	ug/L		118	10 - 120
Benzo[a]anthracene	120	109		ug/L		91	59 - 120
Benzo[a]pyrene	120	106		ug/L		88	52 - 126
Benzo[b]fluoranthene	120	108		ug/L		90	33 - 149
Benzo[g,h,i]perylene	120	148		ug/L		123	38 - 150
Benzo[k]fluoranthene	120	107		ug/L		89	51 - 130
Benzyl alcohol	120	103		ug/L		86	28 - 120
Bis(2-chloroethoxy)methane	120	90.4		ug/L		75	47 - 120
Bis(2-chloroethyl)ether	120	92.7		ug/L		77	44 - 120
Bis(2-ethylhexyl) phthalate	120	122		ug/L		102	52 - 147
4-Bromophenyl phenyl ether	120	117		ug/L		98	54 - 122
Butyl benzyl phthalate	120	111		ug/L		92	54 - 133
2-Chloronaphthalene	120	109		ug/L		91	52 - 121
2-Chlorophenol	120	97.7		ug/L		81	40 - 120
4-Chlorophenyl phenyl ether	120	119		ug/L		99	56 - 125
Chrysene	120	115		ug/L		95	61 - 121
Diallate	120	95.3		ug/L		79	30 - 141
Dibenz(a,h)anthracene	120	133		ug/L		111	40 - 150
Dibenzofuran	120	113		ug/L		94	56 - 122
3,3'-Dichlorobenzidine	160	301	*	ug/L		188	36 - 132
2,4-Dichlorophenol	120	107		ug/L		89	49 - 120
2,6-Dichlorophenol	120	105		ug/L		88	49 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-445193/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 446144
Prep Batch: 445193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	120	113		ug/L		95	50 - 137
Dimethoate	120	101	J	ug/L		84	10 - 150
7,12-Dimethylbenz(a)anthracene	120	317	*	ug/L		264	46 - 150
3,3'-Dimethylbenzidine	120	175	J	ug/L		146	10 - 150
2,4-Dimethylphenol	120	100		ug/L		83	48 - 120
Dimethyl phthalate	120	111		ug/L		92	57 - 124
Di-n-butyl phthalate	120	119		ug/L		99	58 - 126
4,6-Dinitro-o-cresol	240	248		ug/L		103	23 - 148
2,4-Dinitrophenol	240	277		ug/L		115	10 - 150
2,4-Dinitrotoluene	120	118		ug/L		98	54 - 142
2,6-Dinitrotoluene	120	116		ug/L		97	55 - 130
Di-n-octyl phthalate	120	137		ug/L		114	57 - 138
Di-n-propylnitrosamine	120	91.7		ug/L		76	45 - 120
Disulfoton	120	104		ug/L		87	32 - 138
Ethyl methanesulfonate	120	97.3	J	ug/L		81	40 - 123
Famphur	120	8.09	J *	ug/L		7	10 - 150
Fluoranthene	120	116		ug/L		96	56 - 128
Fluorene	120	118		ug/L		98	54 - 124
Hexachlorobenzene	120	128		ug/L		107	52 - 129
Hexachlorobutadiene	120	105		ug/L		87	45 - 120
Hexachlorocyclopentadiene	120	91.3		ug/L		76	10 - 134
Hexachloroethane	120	99.4		ug/L		83	41 - 120
Hexachloropropene	120	131		ug/L		109	38 - 136
Indeno[1,2,3-cd]pyrene	120	131		ug/L		110	41 - 150
Isophorone	120	95.3		ug/L		79	48 - 120
Isosafrole	120	278	*	ug/L		232	31 - 136
m-Dinitrobenzene	120	121	J	ug/L		101	56 - 141
Methapyrilene	120	126	J	ug/L		105	10 - 142
3-Methylcholanthrene	120	103	J	ug/L		85	27 - 150
Methyl methanesulfonate	120	120	J	ug/L		100	36 - 121
2-Methylnaphthalene	120	101		ug/L		85	50 - 121
Methyl parathion	120	108		ug/L		90	18 - 150
m & p - Cresol	120	97.1		ug/L		81	45 - 120
1,4-Naphthoquinone	120	105	J	ug/L		88	35 - 137
1-Naphthylamine	120	106	J	ug/L		89	14 - 125
2-Naphthylamine	120	137	J	ug/L		114	10 - 150
2-Nitroaniline	120	106	J	ug/L		88	51 - 145
3-Nitroaniline	120	116	J	ug/L		97	37 - 127
Nitroaniline, p-	120	143	J	ug/L		119	36 - 137
Nitrobenzene	120	94.0		ug/L		78	45 - 120
5-Nitro-o-toluidine	120	106		ug/L		89	36 - 130
2-Nitrophenol	120	94.0		ug/L		78	40 - 124
4-Nitrophenol	240	241		ug/L		101	23 - 146
N-Nitrosodiethylamine	120	95.8		ug/L		80	40 - 125
N-Nitrosodimethylamine	120	91.5		ug/L		76	29 - 137
N-Nitrosodi-n-butylamine	120	97.5		ug/L		81	42 - 143
N-Nitrosodiphenylamine	119	105		ug/L		88	54 - 120
N-Nitrosomethylethylamine	120	79.6		ug/L		66	19 - 135
N-Nitrosopiperidine	120	94.6		ug/L		79	32 - 137

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-445193/2-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosopyrrolidine	120	91.7		ug/L		76	41 - 127
o-Cresol	120	99.8		ug/L		83	46 - 124
o,o',o''-Triethylphosphorothioate	120	109		ug/L		91	36 - 134
o-Toluidine	120	88.3		ug/L		74	36 - 120
2,2'-oxybis[1-chloropropane]	120	76.6		ug/L		64	33 - 121
Parathion	120	114		ug/L		95	41 - 150
p-Chloroaniline	120	69.1	J	ug/L		58	26 - 120
p-Chloro-m-cresol	120	113		ug/L		94	48 - 131
p-Dimethylamino azobenzene	120	114	J	ug/L		95	53 - 145
Pentachlorobenzene	120	117		ug/L		97	49 - 131
Pentachloronitrobenzene	120	139		ug/L		116	58 - 143
Pentachlorophenol	240	254		ug/L		106	31 - 130
Phenacetin	120	106	J	ug/L		88	44 - 150
Phenanthrene	120	110		ug/L		91	61 - 120
Phenol	120	92.9		ug/L		77	40 - 120
Phorate	120	92.6		ug/L		77	14 - 150
Pronamide	120	116		ug/L		96	48 - 123
Pyrene	120	107		ug/L		89	53 - 128
Safrole	120	109	J	ug/L		91	12 - 150
2-sec-Butyl-4,6-dinitrophenol	120	134		ug/L		112	40 - 148
1,2,4,5-Tetrachlorobenzene	120	110		ug/L		92	50 - 120
2,3,4,6-Tetrachlorophenol	120	129		ug/L		108	51 - 149
2,4,5-Trichlorophenol	120	112		ug/L		94	51 - 136
2,4,6-Trichlorophenol	120	112		ug/L		93	50 - 127
1,3,5-Trinitrobenzene	120	111		ug/L		93	10 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*84*		*46 - 124*
2-Fluorophenol	*66*		*13 - 113*
Nitrobenzene-d5	*83*		*36 - 126*
Phenol-d5	*77*		*17 - 127*
Terphenyl-d14	*97*		*44 - 149*
2,4,6-Tribromophenol	*98*		*26 - 150*

Lab Sample ID: LCS 400-445193/6-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Kepone	200	131		ug/L		66	20 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*46 - 124*
2-Fluorophenol	*56*		*13 - 113*
Nitrobenzene-d5	*72*		*36 - 126*
Phenol-d5	*68*		*17 - 127*
Terphenyl-d14	*84*		*44 - 149*
2,4,6-Tribromophenol	*72*		*26 - 150*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 400-445193/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 446144
Prep Batch: 445193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			120	113		ug/L		95	54 - 125	7	30
Acenaphthylene			120	115		ug/L		96	44 - 130	6	30
Acetophenone			120	95.5		ug/L		80	46 - 120	5	30
2-Acetylaminofluorene			120	109		ug/L		91	52 - 150	1	30
4-Aminobiphenyl			120	137		ug/L		114	16 - 124	3	30
Anthracene			120	120		ug/L		100	61 - 120	6	30
1,4-Benzenediamine			120	135	J	ug/L		112	10 - 120	5	30
Benzo[a]anthracene			120	114		ug/L		95	59 - 120	5	30
Benzo[a]pyrene			120	112		ug/L		93	52 - 126	6	30
Benzo[b]fluoranthene			120	116		ug/L		97	33 - 149	7	30
Benzo[g,h,i]perylene			120	146		ug/L		122	38 - 150	1	30
Benzo[k]fluoranthene			120	114		ug/L		95	51 - 130	7	30
Benzyl alcohol			120	111		ug/L		93	28 - 120	7	30
Bis(2-chloroethoxy)methane			120	95.0		ug/L		79	47 - 120	5	30
Bis(2-chloroethyl)ether			120	96.7		ug/L		81	44 - 120	4	30
Bis(2-ethylhexyl) phthalate			120	124		ug/L		103	52 - 147	1	30
4-Bromophenyl phenyl ether			120	127		ug/L		106	54 - 122	7	30
Butyl benzyl phthalate			120	113		ug/L		95	54 - 133	3	30
2-Chloronaphthalene			120	115		ug/L		96	52 - 121	5	30
2-Chlorophenol			120	101		ug/L		84	40 - 120	3	30
4-Chlorophenyl phenyl ether			120	128		ug/L		107	56 - 125	8	30
Chrysene			120	120		ug/L		100	61 - 121	5	30
Diallate			120	99.4		ug/L		83	30 - 141	4	30
Dibenz(a,h)anthracene			120	133		ug/L		111	40 - 150	0	30
Dibenzofuran			120	121		ug/L		101	56 - 122	6	30
3,3'-Dichlorobenzidine			160	304	*	ug/L		190	36 - 132	1	30
2,4-Dichlorophenol			120	112		ug/L		94	49 - 120	5	30
2,6-Dichlorophenol			120	111		ug/L		93	49 - 120	5	30
Diethyl phthalate			120	120		ug/L		100	50 - 137	5	30
Dimethoate			120	99.4	J	ug/L		83	10 - 150	2	30
7,12-Dimethylbenz(a)anthracene			120	334	*	ug/L		279	46 - 150	5	30
3,3'-Dimethylbenzidine			120	172	J	ug/L		143	10 - 150	2	30
2,4-Dimethylphenol			120	107		ug/L		89	48 - 120	7	30
Dimethyl phthalate			120	119		ug/L		99	57 - 124	7	30
Di-n-butyl phthalate			120	125		ug/L		104	58 - 126	5	30
4,6-Dinitro-o-cresol			240	263		ug/L		110	23 - 148	6	30
2,4-Dinitrophenol			240	310		ug/L		129	10 - 150	11	30
2,4-Dinitrotoluene			120	126		ug/L		105	54 - 142	7	30
2,6-Dinitrotoluene			120	124		ug/L		104	55 - 130	7	30
Di-n-octyl phthalate			120	139		ug/L		116	57 - 138	2	30
Di-n-propylnitrosamine			120	98.0		ug/L		82	45 - 120	7	30
Disulfoton			120	108		ug/L		90	32 - 138	3	30
Ethyl methanesulfonate			120	101	J	ug/L		84	40 - 123	4	30
Famphur			120	6.08	J *	ug/L		5	10 - 150	28	30
Fluoranthene			120	124		ug/L		103	56 - 128	7	30
Fluorene			120	126		ug/L		105	54 - 124	6	30
Hexachlorobenzene			120	136		ug/L		114	52 - 129	6	30
Hexachlorobutadiene			120	112		ug/L		93	45 - 120	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-445193/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 446144
Prep Batch: 445193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	120	95.1		ug/L		79	10 - 134	4	30
Hexachloroethane	120	105		ug/L		88	41 - 120	6	30
Hexachloropropene	120	132		ug/L		110	38 - 136	1	30
Indeno[1,2,3-cd]pyrene	120	131		ug/L		109	41 - 150	0	30
Isophorone	120	98.9		ug/L		82	48 - 120	4	30
Isosafrole	120	290	*	ug/L		242	31 - 136	4	30
m-Dinitrobenzene	120	131	J	ug/L		109	56 - 141	8	30
Methapyrilene	120	125	J	ug/L		104	10 - 142	1	30
3-Methylcholanthrene	120	105	J	ug/L		87	27 - 150	2	30
Methyl methanesulfonate	120	126	J	ug/L		105	36 - 121	5	30
2-Methylnaphthalene	120	107		ug/L		90	50 - 121	6	30
Methyl parathion	120	109		ug/L		90	18 - 150	0	30
m & p - Cresol	120	103		ug/L		86	45 - 120	6	30
1,4-Naphthoquinone	120	110	J	ug/L		92	35 - 137	4	30
1-Naphthylamine	120	107	J	ug/L		89	14 - 125	1	30
2-Naphthylamine	120	140	J	ug/L		117	10 - 150	3	30
2-Nitroaniline	120	114	J	ug/L		95	51 - 145	7	30
3-Nitroaniline	120	123	J	ug/L		102	37 - 127	6	30
Nitroaniline, p-	120	148	J	ug/L		124	36 - 137	4	30
Nitrobenzene	120	97.6		ug/L		81	45 - 120	4	30
5-Nitro-o-toluidine	120	111		ug/L		93	36 - 130	4	30
2-Nitrophenol	120	97.7		ug/L		81	40 - 124	4	30
4-Nitrophenol	240	245		ug/L		102	23 - 146	1	30
N-Nitrosodiethylamine	120	101		ug/L		84	40 - 125	5	30
N-Nitrosodimethylamine	120	99.7		ug/L		83	29 - 137	9	30
N-Nitrosodi-n-butylamine	120	102		ug/L		85	42 - 143	4	30
N-Nitrosodiphenylamine	119	112		ug/L		94	54 - 120	7	30
N-Nitrosomethylethylamine	120	77.3		ug/L		64	19 - 135	3	30
N-Nitrosopiperidine	120	97.1		ug/L		81	32 - 137	3	30
N-Nitrosopyrrolidine	120	95.4		ug/L		80	41 - 127	4	30
o-Cresol	120	104		ug/L		87	46 - 124	4	30
o,o',o''-Triethylphosphorothioate	120	112		ug/L		93	36 - 134	3	30
o-Toluidine	120	91.6		ug/L		76	36 - 120	4	30
2,2'-oxybis[1-chloropropane]	120	80.0		ug/L		67	33 - 121	4	30
Parathion	120	115		ug/L		96	41 - 150	1	30
p-Chloroaniline	120	72.5	J	ug/L		60	26 - 120	5	30
p-Chloro-m-cresol	120	119		ug/L		100	48 - 131	6	30
p-Dimethylamino azobenzene	120	120	J	ug/L		100	53 - 145	5	30
Pentachlorobenzene	120	121		ug/L		101	49 - 131	4	30
Pentachloronitrobenzene	120	144		ug/L		120	58 - 143	3	30
Pentachlorophenol	240	275		ug/L		114	31 - 130	8	30
Phenacetin	120	110	J	ug/L		92	44 - 150	4	30
Phenanthrene	120	117		ug/L		97	61 - 120	6	30
Phenol	120	98.8		ug/L		82	40 - 120	6	30
Phorate	120	91.7		ug/L		76	14 - 150	1	30
Pronamide	120	120		ug/L		100	48 - 123	4	30
Pyrene	120	112		ug/L		94	53 - 128	5	30
Safrole	120	112	J	ug/L		94	12 - 150	3	30
2-sec-Butyl-4,6-dinitrophenol	120	140		ug/L		116	40 - 148	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-445193/3-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 445193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			120	119		ug/L		99	50 - 120	8	30
2,3,4,6-Tetrachlorophenol			120	138		ug/L		115	51 - 149	7	30
2,4,5-Trichlorophenol			120	122		ug/L		102	51 - 136	8	30
2,4,6-Trichlorophenol			120	122		ug/L		102	50 - 127	9	30
1,3,5-Trinitrobenzene			120	113		ug/L		94	10 - 150	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*46 - 124*
2-Fluorophenol	*62*		*13 - 113*
Nitrobenzene-d5	*86*		*36 - 126*
Phenol-d5	*78*		*17 - 127*
Terphenyl-d14	*98*		*44 - 149*
2,4,6-Tribromophenol	*103*		*26 - 150*

Lab Sample ID: LCSD 400-445193/7-A
Matrix: Water
Analysis Batch: 446144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 445193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Kepone			200	163		ug/L		82	20 - 150	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*46 - 124*
2-Fluorophenol	*61*		*13 - 113*
Nitrobenzene-d5	*78*		*36 - 126*
Phenol-d5	*74*		*17 - 127*
Terphenyl-d14	*99*		*44 - 149*
2,4,6-Tribromophenol	*80*		*26 - 150*

Lab Sample ID: MB 400-450094/1-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Acenaphthylene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Acetophenone	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Acetylaminofluorene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
4-Aminobiphenyl	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Anthracene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzo[a]anthracene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzo[a]pyrene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzo[b]fluoranthene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzo[g,h,i]perylene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzo[k]fluoranthene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Benzyl alcohol	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
Bis(2-chloroethoxy)methane	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Bis(2-chloroethyl)ether	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-450094/1-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		07/30/19 16:14	08/03/19 14:13	1
4-Bromophenyl phenyl ether	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Butyl benzyl phthalate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Chloronaphthalene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Chlorophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
4-Chlorophenyl phenyl ether	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Chrysene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Diallate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Dibenz(a,h)anthracene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Dibenzofuran	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
3,3'-Dichlorobenzidine	ND		240		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4-Dichlorophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,6-Dichlorophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Diethyl phthalate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Dimethoate	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
7,12-Dimethylbenz(a)anthracene	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
3,3'-Dimethylbenzidine	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4-Dimethylphenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Dimethyl phthalate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Di-n-butyl phthalate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
4,6-Dinitro-o-cresol	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4-Dinitrophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4-Dinitrotoluene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,6-Dinitrotoluene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Di-n-octyl phthalate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Di-n-propylnitrosamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Disulfoton	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Ethyl methanesulfonate	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Famphur	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Fluoranthene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Fluorene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Hexachlorobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Hexachlorobutadiene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Hexachlorocyclopentadiene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Hexachloroethane	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Hexachloropropene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Indeno[1,2,3-cd]pyrene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Isophorone	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Isosafrole	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Kepone	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
m-Dinitrobenzene	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Methapyrilene	ND		8000		ug/L		07/30/19 16:14	08/03/19 14:13	1
3-Methylcholanthrene	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Methyl methanesulfonate	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Methylnaphthalene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Methyl parathion	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
m & p - Cresol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
1,4-Naphthoquinone	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
1-Naphthylamine	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-450094/1-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Naphthylamine	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Nitroaniline	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
3-Nitroaniline	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Nitroaniline, p-	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Nitrobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
5-Nitro-o-toluidine	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-Nitrophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
4-Nitrophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosodiethylamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosodimethylamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosodi-n-butylamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosodiphenylamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosomethylethylamine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosopiperidine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
N-Nitrosopyrrolidine	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
o-Cresol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
o,o',o''-Triethylphosphorothioate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
o-Toluidine	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,2'-oxybis[1-chloropropane]	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Parathion	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
p-Chloroaniline	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
p-Chloro-m-cresol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
p-Dimethylamino azobenzene	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Pentachlorobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Pentachloronitrobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Pentachlorophenol	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Phenacetin	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
Phenanthrene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Phenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Phorate	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Pronamide	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Pyrene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
Safrole	ND		200		ug/L		07/30/19 16:14	08/03/19 14:13	1
2-sec-Butyl-4,6-dinitrophenol	ND		28		ug/L		07/30/19 16:14	08/03/19 14:13	1
1,2,4,5-Tetrachlorobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,3,4,6-Tetrachlorophenol	ND		80		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4,5-Trichlorophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
2,4,6-Trichlorophenol	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1
1,3,5-Trinitrobenzene	ND		40		ug/L		07/30/19 16:14	08/03/19 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*46 - 124*	*07/30/19 16:14*	*08/03/19 14:13*	*1*
2-Fluorophenol	*65*		*13 - 113*	*07/30/19 16:14*	*08/03/19 14:13*	*1*
Nitrobenzene-d5	*88*		*36 - 126*	*07/30/19 16:14*	*08/03/19 14:13*	*1*
Phenol-d5	*82*		*17 - 127*	*07/30/19 16:14*	*08/03/19 14:13*	*1*
Terphenyl-d14	*110*		*44 - 149*	*07/30/19 16:14*	*08/03/19 14:13*	*1*
2,4,6-Tribromophenol	*87*		*26 - 150*	*07/30/19 16:14*	*08/03/19 14:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-450094/1-A
Matrix: Water
Analysis Batch: 451113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Benzenediamine	ND		8000		ug/L		07/30/19 16:14	08/06/19 16:19	1

Lab Sample ID: LCS 400-450094/2-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	95.6		ug/L		80	54 - 125
Acenaphthylene	120	108		ug/L		90	44 - 130
Acetophenone	120	102		ug/L		85	46 - 120
2-Acetylaminofluorene	120	121		ug/L		101	52 - 150
4-Aminobiphenyl	120	111		ug/L		93	16 - 124
Anthracene	120	104		ug/L		87	61 - 120
1,4-Benzenediamine	120	46.3	J	ug/L		39	10 - 120
Benzo[a]anthracene	120	100		ug/L		84	59 - 120
Benzo[a]pyrene	120	95.7		ug/L		80	52 - 126
Benzo[b]fluoranthene	120	101		ug/L		84	33 - 149
Benzo[g,h,i]perylene	120	90.2		ug/L		75	38 - 150
Benzo[k]fluoranthene	120	108		ug/L		90	51 - 130
Benzyl alcohol	120	108		ug/L		90	28 - 120
Bis(2-chloroethoxy)methane	120	100		ug/L		83	47 - 120
Bis(2-chloroethyl)ether	120	97.2		ug/L		81	44 - 120
Bis(2-ethylhexyl) phthalate	120	129		ug/L		107	52 - 147
4-Bromophenyl phenyl ether	120	110		ug/L		91	54 - 122
Butyl benzyl phthalate	120	98.3		ug/L		82	54 - 133
2-Chloronaphthalene	120	102		ug/L		85	52 - 121
2-Chlorophenol	120	102		ug/L		85	40 - 120
4-Chlorophenyl phenyl ether	120	106		ug/L		88	56 - 125
Chrysene	120	105		ug/L		87	61 - 121
Diallate	120	86.6		ug/L		72	30 - 141
Dibenz(a,h)anthracene	120	102		ug/L		85	40 - 150
Dibenzofuran	120	103		ug/L		86	56 - 122
3,3'-Dichlorobenzidine	160	243	E *	ug/L		152	36 - 132
2,4-Dichlorophenol	120	115		ug/L		96	49 - 120
2,6-Dichlorophenol	120	113		ug/L		94	49 - 120
Diethyl phthalate	120	115		ug/L		96	50 - 137
Dimethoate	120	111	J	ug/L		93	10 - 150
7,12-Dimethylbenz(a)anthracene	120	73.8	J	ug/L		62	46 - 150
3,3'-Dimethylbenzidine	120	154	J	ug/L		128	10 - 150
2,4-Dimethylphenol	120	110		ug/L		92	48 - 120
Dimethyl phthalate	120	117		ug/L		98	57 - 124
Di-n-butyl phthalate	120	96.8		ug/L		81	58 - 126
4,6-Dinitro-o-cresol	240	223		ug/L		93	23 - 148
2,4-Dinitrophenol	240	234		ug/L		97	10 - 150
2,4-Dinitrotoluene	120	113		ug/L		95	54 - 142
2,6-Dinitrotoluene	120	112		ug/L		93	55 - 130
Di-n-octyl phthalate	120	104		ug/L		87	57 - 138
Di-n-propylnitrosamine	120	102		ug/L		85	45 - 120
Disulfoton	120	89.9		ug/L		75	32 - 138

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-450094/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 450777
Prep Batch: 450094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl methanesulfonate	120	102	J	ug/L		85	40 - 123
Famphur	120	20.6	J	ug/L		17	10 - 150
Fluoranthene	120	103		ug/L		86	56 - 128
Fluorene	120	98.6		ug/L		82	54 - 124
Hexachlorobenzene	120	106		ug/L		89	52 - 129
Hexachlorobutadiene	120	72.2		ug/L		60	45 - 120
Hexachlorocyclopentadiene	120	66.3		ug/L		55	10 - 134
Hexachloroethane	120	70.6		ug/L		59	41 - 120
Hexachloropropene	120	59.3		ug/L		49	38 - 136
Indeno[1,2,3-cd]pyrene	120	98.8		ug/L		82	41 - 150
Isophorone	120	104		ug/L		86	48 - 120
Isosafrole	120	108	J	ug/L		90	31 - 136
m-Dinitrobenzene	120	120	J	ug/L		100	56 - 141
Methapyrilene	120	70.9	J	ug/L		59	10 - 142
3-Methylcholanthrene	120	79.1	J	ug/L		66	27 - 150
Methyl methanesulfonate	120	99.0	J	ug/L		82	36 - 121
2-Methylnaphthalene	120	98.3		ug/L		82	50 - 121
Methyl parathion	120	103		ug/L		85	18 - 150
m & p - Cresol	120	107		ug/L		89	45 - 120
1,4-Naphthoquinone	120	94.6	J	ug/L		79	35 - 137
1-Naphthylamine	120	98.8	J	ug/L		82	14 - 125
2-Naphthylamine	120	126	J	ug/L		105	10 - 150
2-Nitroaniline	120	105	J	ug/L		87	51 - 145
3-Nitroaniline	120	98.0	J	ug/L		82	37 - 127
Nitroaniline, p-	120	92.8	J	ug/L		77	36 - 137
Nitrobenzene	120	101		ug/L		84	45 - 120
5-Nitro-o-toluidine	120	106		ug/L		89	36 - 130
2-Nitrophenol	120	112		ug/L		93	40 - 124
4-Nitrophenol	240	211		ug/L		88	23 - 146
N-Nitrosodiethylamine	120	106		ug/L		88	40 - 125
N-Nitrosodimethylamine	120	100		ug/L		84	29 - 137
N-Nitrosodi-n-butylamine	120	98.7		ug/L		82	42 - 143
N-Nitrosodiphenylamine	119	116		ug/L		98	54 - 120
N-Nitrosomethylethylamine	120	93.5		ug/L		78	19 - 135
N-Nitrosopiperidine	120	103		ug/L		86	32 - 137
N-Nitrosopyrrolidine	120	90.2		ug/L		75	41 - 127
o-Cresol	120	107		ug/L		89	46 - 124
o,o',o''-Triethylphosphorothioate	120	97.7		ug/L		81	36 - 134
o-Toluidine	120	98.3		ug/L		82	36 - 120
2,2'-oxybis[1-chloropropane]	120	90.0		ug/L		75	33 - 121
Parathion	120	88.4		ug/L		74	41 - 150
p-Chloroaniline	120	98.3		ug/L		82	26 - 120
p-Chloro-m-cresol	120	117		ug/L		97	48 - 131
p-Dimethylamino azobenzene	120	87.2	J	ug/L		73	53 - 145
Pentachlorobenzene	120	83.4		ug/L		70	49 - 131
Pentachloronitrobenzene	120	94.6		ug/L		79	58 - 143
Pentachlorophenol	240	267		ug/L		111	31 - 130
Phenacetin	120	113	J	ug/L		94	44 - 150
Phenanthrene	120	102		ug/L		85	61 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-450094/2-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol			120	98.3		ug/L		82	40 - 120		
Phorate			120	83.3		ug/L		69	14 - 150		
Pronamide			120	115		ug/L		96	48 - 123		
Pyrene			120	99.7		ug/L		83	53 - 128		
Safrole			120	93.5	J	ug/L		78	12 - 150		
2-sec-Butyl-4,6-dinitrophenol			120	111		ug/L		92	40 - 148		
1,2,4,5-Tetrachlorobenzene			120	97.0		ug/L		81	50 - 120		
2,3,4,6-Tetrachlorophenol			120	139		ug/L		116	51 - 149		
2,4,5-Trichlorophenol			120	115		ug/L		96	51 - 136		
2,4,6-Trichlorophenol			120	118		ug/L		98	50 - 127		
1,3,5-Trinitrobenzene			120	108		ug/L		90	10 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*46 - 124*
2-Fluorophenol	*70*		*13 - 113*
Nitrobenzene-d5	*86*		*36 - 126*
Phenol-d5	*81*		*17 - 127*
Terphenyl-d14	*97*		*44 - 149*
2,4,6-Tribromophenol	*92*		*26 - 150*

Lab Sample ID: LCS 400-450094/3-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Kepone			200	205		ug/L		103	20 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*102*		*46 - 124*
2-Fluorophenol	*83*		*13 - 113*
Nitrobenzene-d5	*96*		*36 - 126*
Phenol-d5	*94*		*17 - 127*
Terphenyl-d14	*115*		*44 - 149*
2,4,6-Tribromophenol	*91*		*26 - 150*

Lab Sample ID: LCSD 400-450094/4-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 450094

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Kepone			200	191		ug/L		95	20 - 150	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*46 - 124*
2-Fluorophenol	*67*		*13 - 113*
Nitrobenzene-d5	*91*		*36 - 126*
Phenol-d5	*85*		*17 - 127*
Terphenyl-d14	*111*		*44 - 149*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-450094/4-A
Matrix: Water
Analysis Batch: 450777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 450094

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*81*		*26 - 150*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-574342/3-A
Matrix: Water
Analysis Batch: 574345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/14/19 13:18	06/14/19 15:28	1
1,2-Dibromoethane	ND		0.050		ug/L		06/14/19 13:18	06/14/19 15:28	1

Lab Sample ID: LCS 680-574342/4-A
Matrix: Water
Analysis Batch: 574345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.100	0.139	J	ug/L		139	70 - 148
1,2-Dibromoethane	0.100	0.122		ug/L		122	66 - 126

Lab Sample ID: LCSD 680-574342/5-A
Matrix: Water
Analysis Batch: 574345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574342

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	0.100	0.114	J	ug/L		114	70 - 148	20	30
1,2-Dibromoethane	0.100	0.0990		ug/L		99	66 - 126	21	30

Lab Sample ID: LLCS 680-574342/6-A
Matrix: Water
Analysis Batch: 574345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574342

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	0.00893	0.0115	J	ug/L		129	60 - 140
1,2-Dibromoethane	0.00893	0.00801	J	ug/L		90	60 - 140

Lab Sample ID: 680-170257-35 MS
Matrix: Water
Analysis Batch: 574345

Client Sample ID: GWC-14A
Prep Type: Total/NA
Prep Batch: 574342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		0.0928	ND		ug/L		144	70 - 148
1,2-Dibromoethane	ND		0.0928	0.115		ug/L		124	66 - 126

Lab Sample ID: MB 680-575095/3-A
Matrix: Water
Analysis Batch: 575139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.20		ug/L		06/20/19 15:50	06/20/19 23:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 680-575095/3-A
Matrix: Water
Analysis Batch: 575139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.050		ug/L		06/20/19 15:50	06/20/19 23:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Pentachloroethane	*107*		*60 - 144*	*06/20/19 15:50*	*06/20/19 23:36*	*1*

Lab Sample ID: LCS 680-575095/4-A
Matrix: Water
Analysis Batch: 575139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575095

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromo-3-Chloropropane			0.100	0.108	J	ug/L		108	70 - 148		
1,2-Dibromoethane			0.100	0.104		ug/L		104	66 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Pentachloroethane	*109*		*60 - 144*

Lab Sample ID: LCSD 680-575095/5-A
Matrix: Water
Analysis Batch: 575139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575095

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			0.100	0.109	J	ug/L		109	70 - 148	0	30
1,2-Dibromoethane			0.100	0.107		ug/L		107	66 - 126	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Pentachloroethane	*109*		*60 - 144*

Method: 8081B - Organochlorine Pesticides by GC

Lab Sample ID: MB 680-577360/20-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0092		ug/L		07/10/19 14:27	07/15/19 15:04	1
4,4'-DDE	ND		0.0092		ug/L		07/10/19 14:27	07/15/19 15:04	1
BHC-alpha	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
BHC-beta	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Chlordane	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1
BHC-delta	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Endosulfan I	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1
Endosulfan II	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1
Endosulfan sulfate	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1
Endrin aldehyde	ND		0.0092		ug/L		07/10/19 14:27	07/15/19 15:04	1
Chlorobenzilate	ND		0.46		ug/L		07/10/19 14:27	07/15/19 15:04	1
Heptachlor epoxide	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Isodrin	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1
Methoxychlor	ND		0.023		ug/L		07/10/19 14:27	07/15/19 15:04	1

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Lab Sample ID: MB 680-577360/20-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1221	ND		0.092		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1232	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1242	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1248	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1254	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aroclor 1260	ND		0.046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Toxaphene	ND		0.14		ug/L		07/10/19 14:27	07/15/19 15:04	1
4,4'-DDT	ND		0.0092		ug/L		07/10/19 14:27	07/15/19 15:04	1
Aldrin	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Dieldrin	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
Endrin	ND		0.0046		ug/L		07/10/19 14:27	07/15/19 15:04	1
BHC-gamma	ND		0.0023		ug/L		07/10/19 14:27	07/15/19 15:04	1
Heptachlor	ND		0.0023		ug/L		07/10/19 14:27	07/15/19 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*10 - 130*	*07/10/19 14:27*	*07/15/19 15:04*	*1*
Tetrachloro-m-xylene	*58*		*39 - 130*	*07/10/19 14:27*	*07/15/19 15:04*	*1*

Lab Sample ID: LCS 680-577360/21-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0250	0.0271		ug/L		108	52 - 130
4,4'-DDE	0.0250	0.0181		ug/L		72	48 - 130
BHC-alpha	0.0250	0.0235		ug/L		94	45 - 130
BHC-beta	0.0250	0.0250		ug/L		100	50 - 130
BHC-delta	0.0250	0.0232		ug/L		93	47 - 140
Endosulfan I	0.0250	0.0249		ug/L		99	27 - 130
Endosulfan II	0.0250	0.0255		ug/L		102	39 - 130
Endosulfan sulfate	0.0250	0.0272		ug/L		109	57 - 130
Endrin aldehyde	0.0250	0.0343		ug/L		137	39 - 177
Heptachlor epoxide	0.0250	0.0228		ug/L		91	54 - 130
Methoxychlor	0.0250	0.0327	*	ug/L		131	53 - 130
4,4'-DDT	0.0250	0.0249		ug/L		100	59 - 130
Aldrin	0.0250	0.0124		ug/L		50	48 - 130
Dieldrin	0.0250	0.0247		ug/L		99	55 - 130
Endrin	0.0250	0.0260		ug/L		104	62 - 131
BHC-gamma	0.0250	0.0218		ug/L		87	47 - 130
Heptachlor	0.0250	0.0170		ug/L		68	49 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*10 - 130*
Tetrachloro-m-xylene	*62*		*39 - 130*

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Lab Sample ID: LCS 680-577360/23-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577360

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			1.50	1.14		ug/L		76	35 - 130		
Aroclor 1260			1.50	1.26		ug/L		84	33 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*67*		*10 - 130*
Tetrachloro-m-xylene	*57*		*39 - 130*

Lab Sample ID: LCSD 680-577360/22-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.0250	0.0277		ug/L		111	52 - 130	2	40
4,4'-DDE			0.0250	0.0183		ug/L		73	48 - 130	1	30
BHC-alpha			0.0250	0.0247		ug/L		99	45 - 130	5	30
BHC-beta			0.0250	0.0298		ug/L		119	50 - 130	18	40
BHC-delta			0.0250	0.0255		ug/L		102	47 - 140	9	30
Endosulfan I			0.0250	0.0251		ug/L		100	27 - 130	1	30
Endosulfan II			0.0250	0.0273		ug/L		109	39 - 130	7	30
Endosulfan sulfate			0.0250	0.0272		ug/L		109	57 - 130	0	40
Endrin aldehyde			0.0250	0.0309		ug/L		124	39 - 177	10	40
Heptachlor epoxide			0.0250	0.0249		ug/L		99	54 - 130	9	40
Methoxychlor			0.0250	0.0320		ug/L		128	53 - 130	2	40
4,4'-DDT			0.0250	0.0251		ug/L		100	59 - 130	1	40
Aldrin			0.0250	0.0131		ug/L		52	48 - 130	5	40
Dieldrin			0.0250	0.0248		ug/L		99	55 - 130	1	30
Endrin			0.0250	0.0269		ug/L		107	62 - 131	3	30
BHC-gamma			0.0250	0.0246		ug/L		98	47 - 130	12	30
Heptachlor			0.0250	0.0174		ug/L		70	49 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*10 - 130*
Tetrachloro-m-xylene	*64*		*39 - 130*

Lab Sample ID: LCSD 680-577360/24-A
Matrix: Water
Analysis Batch: 578013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			1.50	1.26		ug/L		84	35 - 130	10	40
Aroclor 1260			1.50	1.42		ug/L		95	33 - 130	13	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*72*		*10 - 130*
Tetrachloro-m-xylene	*70*		*39 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 680-574269/21-A
Matrix: Water
Analysis Batch: 575792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		5.0		ug/L		06/14/19 09:44	06/26/19 15:50	1
2,4,5-T	ND		5.0		ug/L		06/14/19 09:44	06/26/19 15:50	1
2,4,5-TP	ND		10		ug/L		06/14/19 09:44	06/26/19 15:50	1
2-sec-Butyl-4,6-dinitrophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 15:50	1
Pentachlorophenol	ND		1.0		ug/L		06/14/19 09:44	06/26/19 15:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*45 - 130*	*06/14/19 09:44*	*06/26/19 15:50*	*1*

Lab Sample ID: LCS 680-574269/22-A
Matrix: Water
Analysis Batch: 575792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	2.00	1.25	J	ug/L		63	28 - 130
2,4,5-T	0.500	0.348	J	ug/L		70	32 - 130
2,4,5-TP	0.500	0.382	J	ug/L		76	44 - 130
2-sec-Butyl-4,6-dinitrophenol	2.00	0.866	J	ug/L		43	10 - 130
Pentachlorophenol	0.500	0.349	J	ug/L		70	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*99*		*45 - 130*

Lab Sample ID: MB 460-618837/1-A
Matrix: Water
Analysis Batch: 619804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 618837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		6.0		ug/L		06/19/19 22:28	06/24/19 17:12	1
2,4-D	ND		6.0		ug/L		06/19/19 22:28	06/24/19 17:12	1
2-sec-Butyl-4,6-dinitrophenol	ND		1.4		ug/L		06/19/19 22:28	06/24/19 17:12	1
Pentachlorophenol	ND		1.2		ug/L		06/19/19 22:28	06/24/19 17:12	1
2,4,5-TP	ND		12		ug/L		06/19/19 22:28	06/24/19 17:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*110*		*54 - 150*	*06/19/19 22:28*	*06/24/19 17:12*	*1*
2,4-Dichlorophenylacetic acid	*105*		*54 - 150*	*06/19/19 22:28*	*06/24/19 17:12*	*1*

Lab Sample ID: LCS 460-618837/2-A
Matrix: Water
Analysis Batch: 619804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 618837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	4.00	4.78	J	ug/L		120	68 - 139
2,4,5-T	4.00	4.74	J	ug/L		118	68 - 139
2,4-D	16.0	16.8		ug/L		105	48 - 119
2,4-D	16.0	15.4		ug/L		97	48 - 119
2-sec-Butyl-4,6-dinitrophenol	16.0	14.3		ug/L		89	28 - 70

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 460-618837/2-A
Matrix: Water
Analysis Batch: 619804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 618837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-sec-Butyl-4,6-dinitrophenol	16.0	14.2	*	ug/L		89	28 - 70
Pentachlorophenol	4.00	3.65		ug/L		91	36 - 120
Pentachlorophenol	4.00	3.06		ug/L		77	36 - 120
2,4,5-TP	4.00	5.32	J	ug/L		133	76 - 150
2,4,5-TP	4.00	5.70	J	ug/L		143	76 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*107*		*54 - 150*
2,4-Dichlorophenylacetic acid	*108*		*54 - 150*

Lab Sample ID: LCSD 460-618837/3-A
Matrix: Water
Analysis Batch: 619804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 618837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	4.00	4.42	J	ug/L		111	68 - 139	7	30
2,4,5-T	4.00	4.64	J	ug/L		116	68 - 139	3	30
2,4-D	16.0	16.4		ug/L		102	48 - 119	3	30
2,4-D	16.0	15.0		ug/L		94	48 - 119	3	30
2-sec-Butyl-4,6-dinitrophenol	16.0	13.4	*	ug/L		84	28 - 70	6	30
2-sec-Butyl-4,6-dinitrophenol	16.0	13.5	*	ug/L		84	28 - 70	6	30
Pentachlorophenol	4.00	3.46		ug/L		86	36 - 120	5	30
Pentachlorophenol	4.00	2.94		ug/L		73	36 - 120	4	30
2,4,5-TP	4.00	5.05	J	ug/L		126	76 - 150	5	30
2,4,5-TP	4.00	5.34	J	ug/L		133	76 - 150	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*104*		*54 - 150*
2,4-Dichlorophenylacetic acid	*105*		*54 - 150*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-574190/1-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Arsenic	ND		0.010		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Barium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Beryllium	ND		0.0030		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Cadmium	ND		0.0050		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Chromium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Cobalt	ND		0.040		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Copper	ND		0.020		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Lead	ND		0.015		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Nickel	ND		0.020		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Selenium	ND		0.010		mg/L		06/13/19 15:02	06/17/19 15:55	1

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

Lab Sample ID: MB 680-574190/1-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Silver	ND		0.010		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Thallium	ND		0.0020		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Tin	ND		1.0		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Vanadium	ND		0.020		mg/L		06/13/19 15:02	06/17/19 15:55	1
Total Zinc	ND		0.020		mg/L		06/13/19 15:02	06/17/19 15:55	1

Lab Sample ID: LCS 680-574190/2-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0564		mg/L		113	80 - 120
Total Arsenic	0.100	0.110		mg/L		110	80 - 120
Total Barium	0.100	0.113		mg/L		113	80 - 120
Total Beryllium	0.0500	0.0537		mg/L		107	80 - 120
Total Cadmium	0.0500	0.0552		mg/L		110	80 - 120
Total Chromium	0.100	0.110		mg/L		110	80 - 120
Total Cobalt	0.0500	0.0555		mg/L		111	80 - 120
Total Copper	0.100	0.114		mg/L		114	80 - 120
Total Lead	0.500	0.538		mg/L		108	80 - 120
Total Nickel	0.100	0.112		mg/L		112	80 - 120
Total Selenium	0.100	0.105		mg/L		105	80 - 120
Total Silver	0.0500	0.0577		mg/L		115	80 - 120
Total Thallium	0.0400	0.0438		mg/L		110	80 - 120
Total Tin	0.100	0.106	J	mg/L		106	80 - 120
Total Vanadium	0.100	0.108		mg/L		108	80 - 120
Total Zinc	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: 680-170257-13 MS
Matrix: Water
Analysis Batch: 574633

Client Sample ID: GWC-3A
Prep Type: Total Recoverable
Prep Batch: 574190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	ND		0.0500	0.0538		mg/L		108	75 - 125
Total Arsenic	ND		0.100	0.104		mg/L		104	75 - 125
Total Barium	0.046		0.100	0.148		mg/L		102	75 - 125
Total Beryllium	ND		0.0500	0.0503		mg/L		100	75 - 125
Total Cadmium	ND		0.0500	0.0527		mg/L		105	75 - 125
Total Chromium	ND		0.100	0.105		mg/L		105	75 - 125
Total Cobalt	ND		0.0500	0.0538		mg/L		105	75 - 125
Total Copper	ND		0.100	0.111		mg/L		108	75 - 125
Total Lead	ND		0.500	0.509		mg/L		102	75 - 125
Total Nickel	ND		0.100	0.109		mg/L		106	75 - 125
Total Selenium	ND		0.100	0.102		mg/L		102	75 - 125
Total Silver	ND		0.0500	0.0565		mg/L		113	75 - 125
Total Thallium	ND		0.0400	0.0420		mg/L		105	75 - 125
Total Tin	ND		0.100	ND	4	mg/L		102	75 - 125
Total Vanadium	ND		0.100	0.103		mg/L		103	75 - 125
Total Zinc	0.024	F2 F1	0.100	0.115		mg/L		91	75 - 125

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

Lab Sample ID: 680-170257-13 MSD
Matrix: Water
Analysis Batch: 574633

Client Sample ID: GWC-3A
Prep Type: Total Recoverable
Prep Batch: 574190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Antimony	ND		0.0500	0.0528		mg/L		106	75 - 125	2	20
Total Arsenic	ND		0.100	0.103		mg/L		103	75 - 125	1	20
Total Barium	0.046		0.100	0.149		mg/L		103	75 - 125	1	20
Total Beryllium	ND		0.0500	0.0504		mg/L		100	75 - 125	0	20
Total Cadmium	ND		0.0500	0.0510		mg/L		102	75 - 125	3	20
Total Chromium	ND		0.100	0.122		mg/L		122	75 - 125	14	20
Total Cobalt	ND		0.0500	0.0527		mg/L		103	75 - 125	2	20
Total Copper	ND		0.100	0.116		mg/L		113	75 - 125	5	20
Total Lead	ND		0.500	0.513		mg/L		103	75 - 125	1	20
Total Nickel	ND		0.100	0.106		mg/L		104	75 - 125	2	20
Total Selenium	ND		0.100	0.0994		mg/L		99	75 - 125	2	20
Total Silver	ND		0.0500	0.0543		mg/L		109	75 - 125	4	20
Total Thallium	ND		0.0400	0.0418		mg/L		104	75 - 125	1	20
Total Tin	ND		0.100	ND	4	mg/L		100	75 - 125	2	20
Total Vanadium	ND		0.100	0.112		mg/L		112	75 - 125	8	20
Total Zinc	0.024	F2 F1	0.100	0.185	F1 F2	mg/L		161	75 - 125	47	20

Lab Sample ID: MB 680-574410/1-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Arsenic	ND		0.010		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Barium	ND		0.020		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Beryllium	ND		0.0030		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Cadmium	ND		0.0050		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Chromium	ND		0.010		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Cobalt	ND		0.040		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Copper	ND		0.020		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Lead	ND		0.015		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Nickel	ND		0.020		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Selenium	ND		0.010		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Silver	ND		0.010		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Thallium	ND		0.0020		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Tin	ND		1.0		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Vanadium	ND		0.020		mg/L		06/15/19 10:26	06/17/19 23:05	1
Total Zinc	ND		0.020		mg/L		06/15/19 10:26	06/17/19 23:05	1

Lab Sample ID: LCS 680-574410/2-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0528		mg/L		106	80 - 120
Total Arsenic	0.100	0.106		mg/L		106	80 - 120
Total Barium	0.100	0.109		mg/L		109	80 - 120
Total Beryllium	0.0500	0.0526		mg/L		105	80 - 120
Total Cadmium	0.0500	0.0509		mg/L		102	80 - 120

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

Lab Sample ID: LCS 680-574410/2-A
Matrix: Water
Analysis Batch: 574633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Chromium	0.100	0.104		mg/L		104	80 - 120
Total Cobalt	0.0500	0.0523		mg/L		105	80 - 120
Total Copper	0.100	0.109		mg/L		109	80 - 120
Total Lead	0.500	0.496		mg/L		99	80 - 120
Total Nickel	0.100	0.106		mg/L		106	80 - 120
Total Selenium	0.100	0.0994		mg/L		99	80 - 120
Total Silver	0.0500	0.0520		mg/L		104	80 - 120
Total Thallium	0.0400	0.0405		mg/L		101	80 - 120
Total Tin	0.100	0.102	J	mg/L		102	80 - 120
Total Vanadium	0.100	0.101		mg/L		101	80 - 120
Total Zinc	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: MB 680-574557/1-A
Matrix: Water
Analysis Batch: 575362

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Arsenic	ND		0.010		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Barium	ND		0.020		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Beryllium	ND		0.0030		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Cadmium	ND		0.0050		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Chromium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Cobalt	ND		0.040		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Copper	ND		0.020		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Lead	ND		0.015		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Nickel	ND		0.020		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Selenium	ND		0.010		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Silver	ND		0.010		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Thallium	ND		0.0020		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Vanadium	ND		0.020		mg/L		06/17/19 13:57	06/22/19 12:40	1
Total Zinc	ND		0.020		mg/L		06/17/19 13:57	06/22/19 12:40	1

Lab Sample ID: LCS 680-574557/2-A
Matrix: Water
Analysis Batch: 575362

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0517		mg/L		103	80 - 120
Total Arsenic	0.100	0.106		mg/L		106	80 - 120
Total Barium	0.100	0.111		mg/L		111	80 - 120
Total Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Total Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Total Chromium	0.100	0.111		mg/L		111	80 - 120
Total Cobalt	0.0500	0.0552		mg/L		110	80 - 120
Total Copper	0.100	0.113		mg/L		113	80 - 120
Total Lead	0.500	0.530		mg/L		106	80 - 120
Total Nickel	0.100	0.111		mg/L		111	80 - 120
Total Selenium	0.100	0.105		mg/L		105	80 - 120

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

Lab Sample ID: LCS 680-574557/2-A
Matrix: Water
Analysis Batch: 575362

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Silver	0.0500	0.0570		mg/L		114	80 - 120
Total Thallium	0.0400	0.0420		mg/L		105	80 - 120
Total Vanadium	0.100	0.109		mg/L		109	80 - 120
Total Zinc	0.100	0.110		mg/L		110	80 - 120

Lab Sample ID: MB 680-574866/1-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Arsenic	ND		0.010		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Barium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Chromium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Cobalt	ND		0.040		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Copper	ND		0.020		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Lead	ND		0.015		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Nickel	ND		0.020		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Selenium	ND		0.010		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Silver	ND		0.010		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Thallium	ND		0.0020		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Tin	ND		1.0		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Vanadium	ND		0.020		mg/L		06/19/19 11:09	06/20/19 02:16	1
Total Zinc	ND		0.020		mg/L		06/19/19 11:09	06/20/19 02:16	1

Lab Sample ID: LCS 680-574866/2-A
Matrix: Water
Analysis Batch: 575051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0516		mg/L		103	80 - 120
Total Arsenic	0.100	0.109		mg/L		109	80 - 120
Total Barium	0.100	0.112		mg/L		112	80 - 120
Total Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Total Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Total Chromium	0.100	0.105		mg/L		105	80 - 120
Total Cobalt	0.0500	0.0524		mg/L		105	80 - 120
Total Copper	0.100	0.109		mg/L		109	80 - 120
Total Lead	0.500	0.517		mg/L		103	80 - 120
Total Nickel	0.100	0.105		mg/L		105	80 - 120
Total Selenium	0.100	0.109		mg/L		109	80 - 120
Total Silver	0.0500	0.0528		mg/L		106	80 - 120
Total Thallium	0.0400	0.0427		mg/L		107	80 - 120
Total Tin	0.100	0.0997	J	mg/L		100	80 - 120
Total Vanadium	0.100	0.103		mg/L		103	80 - 120
Total Zinc	0.100	0.105		mg/L		105	80 - 120

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

Lab Sample ID: MB 680-574918/1-A
Matrix: Water
Analysis Batch: 575573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Arsenic	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Barium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Beryllium	ND		0.0030		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Cadmium	ND		0.0050		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Chromium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Cobalt	ND		0.040		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Copper	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Lead	ND		0.015		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Nickel	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Selenium	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Silver	ND		0.010		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Thallium	ND		0.0020		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Vanadium	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:15	1
Total Zinc	ND		0.020		mg/L		06/19/19 15:01	06/24/19 18:15	1

Lab Sample ID: LCS 680-574918/2-A
Matrix: Water
Analysis Batch: 575573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0515		mg/L		103	80 - 120
Total Arsenic	0.100	0.100		mg/L		100	80 - 120
Total Barium	0.100	0.0996		mg/L		100	80 - 120
Total Beryllium	0.0500	0.0456		mg/L		91	80 - 120
Total Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Total Chromium	0.100	0.103		mg/L		103	80 - 120
Total Cobalt	0.0500	0.0512		mg/L		102	80 - 120
Total Copper	0.100	0.108		mg/L		108	80 - 120
Total Lead	0.500	0.516		mg/L		103	80 - 120
Total Nickel	0.100	0.104		mg/L		104	80 - 120
Total Selenium	0.100	0.0957		mg/L		96	80 - 120
Total Silver	0.0500	0.0532		mg/L		106	80 - 120
Total Thallium	0.0400	0.0424		mg/L		106	80 - 120
Total Vanadium	0.100	0.101		mg/L		101	80 - 120
Total Zinc	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: 680-170409-49 MS
Matrix: Water
Analysis Batch: 575573

Client Sample ID: PHI-GWA-3A
Prep Type: Total Recoverable
Prep Batch: 574918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	ND		0.0500	0.0573		mg/L		115	75 - 125
Total Arsenic	ND		0.100	0.112		mg/L		112	75 - 125
Total Barium	ND		0.100	0.125		mg/L		109	75 - 125
Total Beryllium	ND		0.0500	0.0500		mg/L		100	75 - 125
Total Cadmium	ND		0.0500	0.0565		mg/L		113	75 - 125
Total Chromium	ND		0.100	0.115		mg/L		115	75 - 125
Total Cobalt	ND		0.0500	0.0567		mg/L		113	75 - 125

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

Lab Sample ID: 680-170409-49 MS
Matrix: Water
Analysis Batch: 575573

Client Sample ID: PHI-GWA-3A
Prep Type: Total Recoverable
Prep Batch: 574918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Copper	ND		0.100	0.121		mg/L		121	75 - 125
Total Lead	ND		0.500	0.568		mg/L		114	75 - 125
Total Nickel	ND		0.100	0.117		mg/L		117	75 - 125
Total Selenium	ND		0.100	0.110		mg/L		110	75 - 125
Total Silver	ND		0.0500	0.0594		mg/L		119	75 - 125
Total Thallium	ND		0.0400	0.0470		mg/L		117	75 - 125
Total Vanadium	ND		0.100	0.113		mg/L		113	75 - 125
Total Zinc	ND		0.100	0.118		mg/L		118	75 - 125

Lab Sample ID: 680-170409-49 MSD
Matrix: Water
Analysis Batch: 575573

Client Sample ID: PHI-GWA-3A
Prep Type: Total Recoverable
Prep Batch: 574918

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Antimony	ND		0.0500	0.0539		mg/L		108	75 - 125	6	20
Total Arsenic	ND		0.100	0.107		mg/L		107	75 - 125	5	20
Total Barium	ND		0.100	0.120		mg/L		104	75 - 125	4	20
Total Beryllium	ND		0.0500	0.0460		mg/L		92	75 - 125	8	20
Total Cadmium	ND		0.0500	0.0542		mg/L		108	75 - 125	4	20
Total Chromium	ND		0.100	0.109		mg/L		109	75 - 125	5	20
Total Cobalt	ND		0.0500	0.0542		mg/L		108	75 - 125	4	20
Total Copper	ND		0.100	0.116		mg/L		116	75 - 125	4	20
Total Lead	ND		0.500	0.550		mg/L		110	75 - 125	3	20
Total Nickel	ND		0.100	0.111		mg/L		111	75 - 125	5	20
Total Selenium	ND		0.100	0.103		mg/L		103	75 - 125	7	20
Total Silver	ND		0.0500	0.0574		mg/L		115	75 - 125	4	20
Total Thallium	ND		0.0400	0.0454		mg/L		114	75 - 125	3	20
Total Vanadium	ND		0.100	0.108		mg/L		108	75 - 125	5	20
Total Zinc	ND		0.100	0.113		mg/L		113	75 - 125	4	20

Lab Sample ID: MB 680-576189/1-A
Matrix: Water
Analysis Batch: 576322

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Antimony	ND		0.0060		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Arsenic	ND		0.010		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Barium	ND		0.020		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Beryllium	ND		0.0030		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Cadmium	ND		0.0050		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Chromium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Cobalt	ND		0.040		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Copper	ND		0.020		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Lead	ND		0.015		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Nickel	ND		0.020		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Selenium	ND		0.010		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Silver	ND		0.010		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Thallium	ND		0.0020		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Tin	ND		0.050		mg/L		06/27/19 14:16	06/28/19 14:56	1

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

Lab Sample ID: MB 680-576189/1-A
Matrix: Water
Analysis Batch: 576322

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Vanadium	ND		0.020		mg/L		06/27/19 14:16	06/28/19 14:56	1
Total Zinc	ND		0.020		mg/L		06/27/19 14:16	06/28/19 14:56	1

Lab Sample ID: LCS 680-576189/2-A
Matrix: Water
Analysis Batch: 576322

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Antimony	0.0500	0.0503		mg/L		101	80 - 120
Total Arsenic	0.100	0.105		mg/L		105	80 - 120
Total Barium	0.100	0.0984		mg/L		98	80 - 120
Total Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Total Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Total Chromium	0.100	0.107		mg/L		107	80 - 120
Total Cobalt	0.0500	0.0541		mg/L		108	80 - 120
Total Copper	0.100	0.110		mg/L		110	80 - 120
Total Lead	0.500	0.500		mg/L		100	80 - 120
Total Nickel	0.100	0.108		mg/L		108	80 - 120
Total Selenium	0.100	0.107		mg/L		107	80 - 120
Total Silver	0.0500	0.0532		mg/L		106	80 - 120
Total Thallium	0.0400	0.0418		mg/L		104	80 - 120
Total Tin	0.100	0.0976		mg/L		98	80 - 120
Total Vanadium	0.100	0.103		mg/L		103	80 - 120
Total Zinc	0.100	0.106		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-574533/13-A
Matrix: Water
Analysis Batch: 574940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/17/19 12:08	06/19/19 11:45	1

Lab Sample ID: LCS 680-574533/14-A
Matrix: Water
Analysis Batch: 574940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Mercury	0.00250	0.00257		mg/L		103	80 - 120

Lab Sample ID: MB 680-574878/13-A
Matrix: Water
Analysis Batch: 575334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:15	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-574878/14-A
Matrix: Water
Analysis Batch: 575334
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Mercury			0.00250	0.00244		mg/L		97	80 - 120		

Lab Sample ID: 680-170257-50 MS
Matrix: Water
Analysis Batch: 575334
Client Sample ID: GWC-24
Prep Type: Total/NA
Prep Batch: 574878

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Mercury	ND		0.00100	0.000894		mg/L		89	80 - 120		

Lab Sample ID: 680-170257-50 MSD
Matrix: Water
Analysis Batch: 575334
Client Sample ID: GWC-24
Prep Type: Total/NA
Prep Batch: 574878

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Mercury	ND		0.00100	0.000896		mg/L		90	80 - 120	0	20

Lab Sample ID: MB 680-574880/1-A
Matrix: Water
Analysis Batch: 575334
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:47	06/21/19 15:07	1

Lab Sample ID: LCS 680-574880/2-A
Matrix: Water
Analysis Batch: 575334
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Mercury			0.00250	0.00244		mg/L		98	80 - 120		

Lab Sample ID: 680-170409-10 MS
Matrix: Water
Analysis Batch: 575334
Client Sample ID: AMW-2 (GWC-16A)
Prep Type: Total/NA
Prep Batch: 574880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Mercury	ND	F1	0.00100	0.000763	F1	mg/L		76	80 - 120		

Lab Sample ID: 680-170409-10 MSD
Matrix: Water
Analysis Batch: 575334
Client Sample ID: AMW-2 (GWC-16A)
Prep Type: Total/NA
Prep Batch: 574880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Mercury	ND	F1	0.00100	0.000768	F1	mg/L		77	80 - 120	1	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 500-497958/1-A
Matrix: Water
Analysis Batch: 498017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 497958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		08/02/19 09:55	08/02/19 14:33	1

Lab Sample ID: HLCS 500-497958/2-A
Matrix: Water
Analysis Batch: 498017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497958

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.400	0.408		mg/L		102	90 - 110

Lab Sample ID: LCS 500-497958/3-A
Matrix: Water
Analysis Batch: 498017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.108		mg/L		108	85 - 115

Lab Sample ID: LLCS 500-497958/4-A
Matrix: Water
Analysis Batch: 498017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497958

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0400	0.0406		mg/L		102	75 - 125

Lab Sample ID: MB 680-575290/1-A
Matrix: Water
Analysis Batch: 575878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/21/19 15:23	06/26/19 13:32	1

Lab Sample ID: LCS 680-575290/2-A
Matrix: Water
Analysis Batch: 575878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Cyanide	0.0500	0.0514		mg/L		103	90 - 110

Lab Sample ID: 680-170257-G-29-B MS
Matrix: Water
Analysis Batch: 575878

Client Sample ID: 680-170257-G-29-B MS
Prep Type: Total/NA
Prep Batch: 575290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Cyanide	ND	H	0.0500	0.0492		mg/L		98	90 - 110

Lab Sample ID: 680-170257-G-29-C MSD
Matrix: Water
Analysis Batch: 575878

Client Sample ID: 680-170257-G-29-C MSD
Prep Type: Total/NA
Prep Batch: 575290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Cyanide	ND	H	0.0500	0.0494		mg/L		99	90 - 110	0	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 680-575593/1-A
Matrix: Water
Analysis Batch: 576305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/28/19 16:58	1

Lab Sample ID: LCS 680-575593/2-A
Matrix: Water
Analysis Batch: 575878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Cyanide	0.0500	0.0491		mg/L		98	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 680-574585/1
Matrix: Water
Analysis Batch: 574585

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			06/17/19 16:07	1

Lab Sample ID: LCS 680-574585/2
Matrix: Water
Analysis Batch: 574585

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	10.5		mg/L		105	75 - 125

Lab Sample ID: LCSD 680-574585/3
Matrix: Water
Analysis Batch: 574585

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	10.0	10.9		mg/L		109	75 - 125	4	30

Lab Sample ID: 680-170257-31 DU
Matrix: Water
Analysis Batch: 574585

Client Sample ID: PH1-GWC-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		1.12		mg/L		NC	30

Lab Sample ID: MB 680-574924/1
Matrix: Water
Analysis Batch: 574924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0		mg/L			06/19/19 15:24	1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-574924/2
Matrix: Water
Analysis Batch: 574924

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfide			10.0	10.6		mg/L		106	75 - 125		

Lab Sample ID: LCSD 680-574924/3
Matrix: Water
Analysis Batch: 574924

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			10.0	10.6		mg/L		105	75 - 125	1	30

GC/MS VOA

Analysis Batch: 574919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-30	PH1-GWC-3	Total/NA	Water	8260B	
680-170257-31	PH1-GWC-3A	Total/NA	Water	8260B	
680-170257-40	PH1-GWA-1	Total/NA	Water	8260B	
680-170257-41	PH1-GWC-2	Total/NA	Water	8260B	
MB 680-574919/11	Method Blank	Total/NA	Water	8260B	
LCS 680-574919/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-574919/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 574996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-6	GWC-10	Total/NA	Water	8260B	
680-170257-7	GWC-10A	Total/NA	Water	8260B	
680-170257-18	GWA-1A	Total/NA	Water	8260B	
680-170257-19	GWA-1	Total/NA	Water	8260B	
680-170257-20	PH1-GWA-1A	Total/NA	Water	8260B	
MB 680-574996/9	Method Blank	Total/NA	Water	8260B	
LCS 680-574996/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-574996/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-12	AMW-13	Total/NA	Water	8260B	
680-170257-17	Trip Blank	Total/NA	Water	8260B	
680-170257-29	GWC-18	Total/NA	Water	8260B	
680-170257-34	GWC-19R	Total/NA	Water	8260B	
680-170257-35	GWC-14A	Total/NA	Water	8260B	
680-170257-36	GWC-24	Total/NA	Water	8260B	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8260B	
680-170257-44	PH1-GWA-2	Total/NA	Water	8260B	
MB 680-575003/10	Method Blank	Total/NA	Water	8260B	
LCS 680-575003/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575003/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-25	PH1-GWB-1	Total/NA	Water	8260B	
680-170257-26	GWA-2	Total/NA	Water	8260B	
680-170257-27	GWA-3	Total/NA	Water	8260B	
MB 680-575077/10	Method Blank	Total/NA	Water	8260B	
LCS 680-575077/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575077/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-19	PHI-GWC-4	Total/NA	Water	8260B	
680-170409-20	GWC-1	Total/NA	Water	8260B	
680-170409-23	GWC-22	Total/NA	Water	8260B	
680-170409-24	GWC-23	Total/NA	Water	8260B	
680-170409-25	GWC-23A	Total/NA	Water	8260B	
680-170409-26	GWC-13	Total/NA	Water	8260B	
680-170409-27	GWC-7	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 575341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-28	GWC-6	Total/NA	Water	8260B	
680-170409-29	GWC-5	Total/NA	Water	8260B	
680-170409-30	PHI-GWB-2	Total/NA	Water	8260B	
680-170409-34	Field Blank 2	Total/NA	Water	8260B	
680-170409-36	GWC-8	Total/NA	Water	8260B	
680-170409-39	GWC-9	Total/NA	Water	8260B	
680-170409-40	GWC-11	Total/NA	Water	8260B	
680-170409-42	GWC-2	Total/NA	Water	8260B	
680-170409-45	PHI-GWC-1	Total/NA	Water	8260B	
680-170409-48	Field Blank 1	Total/NA	Water	8260B	
680-170409-49	PHI-GWA-3A	Total/NA	Water	8260B	
MB 680-575341/10	Method Blank	Total/NA	Water	8260B	
LCS 680-575341/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575341/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-1	GWC-3	Total/NA	Water	8260B	
680-170257-2	GWC-14	Total/NA	Water	8260B	
680-170257-3	GWC-3A	Total/NA	Water	8260B	
680-170257-23	GWC-4A	Total/NA	Water	8260B	
680-170257-24	PH1-GWA-4	Total/NA	Water	8260B	
MB 680-575377/9	Method Blank	Total/NA	Water	8260B	
LCS 680-575377/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575377/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-8	GWC-12	Total/NA	Water	8260B	
680-170257-9	GWC-12A	Total/NA	Water	8260B	
MB 680-575395/9	Method Blank	Total/NA	Water	8260B	
LCS 680-575395/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575395/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-31	AMW-9	Total/NA	Water	8260B	
680-170409-35	GWC-14R	Total/NA	Water	8260B	
680-170409-37	GWC-8A	Total/NA	Water	8260B	
680-170409-38	GWC-8R	Total/NA	Water	8260B	
680-170409-41	GWC-17	Total/NA	Water	8260B	
MB 680-575556/10	Method Blank	Total/NA	Water	8260B	
LCS 680-575556/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575556/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 575656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-6	AMW-14	Total/NA	Water	8260B	
680-170409-11	Trip Blank	Total/NA	Water	8260B	
680-170409-21	AMW-12	Total/NA	Water	8260B	
680-170409-22	AMW-12R	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 575656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-44	AMW-2	Total/NA	Water	8260B	
680-170409-46	AMW-5	Total/NA	Water	8260B	
680-170409-47	AMW-4	Total/NA	Water	8260B	
MB 680-575656/11	Method Blank	Total/NA	Water	8260B	
LCS 680-575656/1004	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575656/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 444688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-30	PH1-GWC-3	Total/NA	Water	3520C	
680-170257-31	PH1-GWC-3A	Total/NA	Water	3520C	
680-170257-40	PH1-GWA-1	Total/NA	Water	3520C	
680-170257-41	PH1-GWC-2	Total/NA	Water	3520C	
MB 400-444688/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-444688/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-444688/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-444688/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-444688/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 444898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	3520C	
680-170257-34	GWC-19R	Total/NA	Water	3520C	
680-170257-35	GWC-14A	Total/NA	Water	3520C	
680-170257-36	GWC-24	Total/NA	Water	3520C	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	3520C	
680-170257-44	PH1-GWA-2	Total/NA	Water	3520C	
MB 400-444898/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-444898/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-444898/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-444898/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-444898/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 445160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-444688/1-A	Method Blank	Total/NA	Water	8270D	444688
LCS 400-444688/2-A	Lab Control Sample	Total/NA	Water	8270D	444688
LCSD 400-444688/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	444688

Prep Batch: 445193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-44	AMW-2	Total/NA	Water	3520C	
MB 400-445193/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-445193/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-445193/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-445193/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 400-445193/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	

GC/MS Semi VOA

Analysis Batch: 445656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8270D	444898
680-170257-34	GWC-19R	Total/NA	Water	8270D	444898
680-170257-35	GWC-14A	Total/NA	Water	8270D	444898
MB 400-444898/1-A	Method Blank	Total/NA	Water	8270D	444898
LCS 400-444898/2-A	Lab Control Sample	Total/NA	Water	8270D	444898
LCS 400-444898/4-A	Lab Control Sample	Total/NA	Water	8270D	444898
LCSD 400-444898/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	444898
LCSD 400-444898/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	444898

Analysis Batch: 445797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-36	GWC-24	Total/NA	Water	8270D	444898
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8270D	444898
680-170257-44	PH1-GWA-2	Total/NA	Water	8270D	444898

Analysis Batch: 446144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-30	PH1-GWC-3	Total/NA	Water	8270D	444688
680-170257-31	PH1-GWC-3A	Total/NA	Water	8270D	444688
680-170257-36	GWC-24	Total/NA	Water	8270D	444898
680-170257-40	PH1-GWA-1	Total/NA	Water	8270D	444688
680-170257-41	PH1-GWC-2	Total/NA	Water	8270D	444688
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8270D	444898
680-170257-44	PH1-GWA-2	Total/NA	Water	8270D	444898
680-170409-44	AMW-2	Total/NA	Water	8270D	445193
MB 400-445193/1-A	Method Blank	Total/NA	Water	8270D	445193
LCS 400-445193/2-A	Lab Control Sample	Total/NA	Water	8270D	445193
LCS 400-445193/6-A	Lab Control Sample	Total/NA	Water	8270D	445193
LCSD 400-445193/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	445193
LCSD 400-445193/7-A	Lab Control Sample Dup	Total/NA	Water	8270D	445193

Analysis Batch: 446427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-444688/1-A	Method Blank	Total/NA	Water	8270D	444688
LCS 400-444688/6-A	Lab Control Sample	Total/NA	Water	8270D	444688
LCSD 400-444688/7-A	Lab Control Sample Dup	Total/NA	Water	8270D	444688

Prep Batch: 450094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-1	GWC-8A	Total/NA	Water	3520C	
680-172164-2	GWC-8R	Total/NA	Water	3520C	
680-172164-3	GWC-14R	Total/NA	Water	3520C	
MB 400-450094/1-A	Method Blank	Total/NA	Water	3520C	
LCS 400-450094/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 400-450094/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-450094/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 450777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-1	GWC-8A	Total/NA	Water	8270D	450094
680-172164-2	GWC-8R	Total/NA	Water	8270D	450094

GC/MS Semi VOA (Continued)

Analysis Batch: 450777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-3	GWC-14R	Total/NA	Water	8270D	450094
MB 400-450094/1-A	Method Blank	Total/NA	Water	8270D	450094
LCS 400-450094/2-A	Lab Control Sample	Total/NA	Water	8270D	450094
LCS 400-450094/3-A	Lab Control Sample	Total/NA	Water	8270D	450094
LCSD 400-450094/4-A	Lab Control Sample Dup	Total/NA	Water	8270D	450094

Analysis Batch: 451113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-1	GWC-8A	Total/NA	Water	8270D	450094
680-172164-2	GWC-8R	Total/NA	Water	8270D	450094
680-172164-3	GWC-14R	Total/NA	Water	8270D	450094
MB 400-450094/1-A	Method Blank	Total/NA	Water	8270D	450094

GC Semi VOA

Prep Batch: 574269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8151A	
680-170257-30	PH1-GWC-3	Total/NA	Water	8151A	
680-170257-31	PH1-GWC-3A	Total/NA	Water	8151A	
680-170257-34	GWC-19R	Total/NA	Water	8151A	
680-170257-35	GWC-14A	Total/NA	Water	8151A	
680-170257-36	GWC-24	Total/NA	Water	8151A	
680-170257-40	PH1-GWA-1	Total/NA	Water	8151A	
680-170257-41	PH1-GWC-2	Total/NA	Water	8151A	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8151A	
680-170257-44	PH1-GWA-2	Total/NA	Water	8151A	
MB 680-574269/21-A	Method Blank	Total/NA	Water	8151A	
LCS 680-574269/22-A	Lab Control Sample	Total/NA	Water	8151A	

Prep Batch: 574342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8011	
680-170257-30	PH1-GWC-3	Total/NA	Water	8011	
680-170257-31	PH1-GWC-3A	Total/NA	Water	8011	
680-170257-34	GWC-19R	Total/NA	Water	8011	
680-170257-35	GWC-14A	Total/NA	Water	8011	
680-170257-36	GWC-24	Total/NA	Water	8011	
680-170257-40	PH1-GWA-1	Total/NA	Water	8011	
680-170257-41	PH1-GWC-2	Total/NA	Water	8011	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8011	
680-170257-44	PH1-GWA-2	Total/NA	Water	8011	
MB 680-574342/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-574342/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-574342/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
LLCS 680-574342/6-A	Lab Control Sample	Total/NA	Water	8011	
680-170257-35 MS	GWC-14A	Total/NA	Water	8011	

Analysis Batch: 574345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8011	574342

GC Semi VOA (Continued)

Analysis Batch: 574345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-30	PH1-GWC-3	Total/NA	Water	8011	574342
680-170257-31	PH1-GWC-3A	Total/NA	Water	8011	574342
680-170257-34	GWC-19R	Total/NA	Water	8011	574342
680-170257-35	GWC-14A	Total/NA	Water	8011	574342
680-170257-36	GWC-24	Total/NA	Water	8011	574342
680-170257-40	PH1-GWA-1	Total/NA	Water	8011	574342
680-170257-41	PH1-GWC-2	Total/NA	Water	8011	574342
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8011	574342
680-170257-44	PH1-GWA-2	Total/NA	Water	8011	574342
MB 680-574342/3-A	Method Blank	Total/NA	Water	8011	574342
LCS 680-574342/4-A	Lab Control Sample	Total/NA	Water	8011	574342
LCSD 680-574342/5-A	Lab Control Sample Dup	Total/NA	Water	8011	574342
LLCS 680-574342/6-A	Lab Control Sample	Total/NA	Water	8011	574342
680-170257-35 MS	GWC-14A	Total/NA	Water	8011	574342

Prep Batch: 575095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-37	GWC-8A	Total/NA	Water	8011	
680-170409-41	GWC-17	Total/NA	Water	8011	
680-170409-44	AMW-2	Total/NA	Water	8011	
MB 680-575095/3-A	Method Blank	Total/NA	Water	8011	
LCS 680-575095/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 680-575095/5-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 575139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-37	GWC-8A	Total/NA	Water	8011	575095
680-170409-41	GWC-17	Total/NA	Water	8011	575095
680-170409-44	AMW-2	Total/NA	Water	8011	575095
MB 680-575095/3-A	Method Blank	Total/NA	Water	8011	575095
LCS 680-575095/4-A	Lab Control Sample	Total/NA	Water	8011	575095
LCSD 680-575095/5-A	Lab Control Sample Dup	Total/NA	Water	8011	575095

Analysis Batch: 575792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8151A	574269
680-170257-30	PH1-GWC-3	Total/NA	Water	8151A	574269
680-170257-31	PH1-GWC-3A	Total/NA	Water	8151A	574269
680-170257-34	GWC-19R	Total/NA	Water	8151A	574269
680-170257-35	GWC-14A	Total/NA	Water	8151A	574269
680-170257-36	GWC-24	Total/NA	Water	8151A	574269
680-170257-40	PH1-GWA-1	Total/NA	Water	8151A	574269
680-170257-41	PH1-GWC-2	Total/NA	Water	8151A	574269
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8151A	574269
680-170257-44	PH1-GWA-2	Total/NA	Water	8151A	574269
MB 680-574269/21-A	Method Blank	Total/NA	Water	8151A	574269
LCS 680-574269/22-A	Lab Control Sample	Total/NA	Water	8151A	574269

Prep Batch: 577360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 577360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-30	PH1-GWC-3	Total/NA	Water	3520C	
680-170257-31	PH1-GWC-3A	Total/NA	Water	3520C	
680-170257-34	GWC-19R	Total/NA	Water	3520C	
680-170257-35	GWC-14A	Total/NA	Water	3520C	
680-170257-36	GWC-24	Total/NA	Water	3520C	
680-170257-40	PH1-GWA-1	Total/NA	Water	3520C	
680-170257-41	PH1-GWC-2	Total/NA	Water	3520C	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	3520C	
680-170257-44	PH1-GWA-2	Total/NA	Water	3520C	
680-170409-37	GWC-8A	Total/NA	Water	3520C	
680-170409-44	AMW-2	Total/NA	Water	3520C	
MB 680-577360/20-A	Method Blank	Total/NA	Water	3520C	
LCS 680-577360/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-577360/23-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-577360/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-577360/24-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 578013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	8081B	577360
680-170257-30	PH1-GWC-3	Total/NA	Water	8081B	577360
680-170257-31	PH1-GWC-3A	Total/NA	Water	8081B	577360
680-170257-34	GWC-19R	Total/NA	Water	8081B	577360
680-170257-35	GWC-14A	Total/NA	Water	8081B	577360
680-170257-36	GWC-24	Total/NA	Water	8081B	577360
680-170257-40	PH1-GWA-1	Total/NA	Water	8081B	577360
680-170257-41	PH1-GWC-2	Total/NA	Water	8081B	577360
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	8081B	577360
680-170257-44	PH1-GWA-2	Total/NA	Water	8081B	577360
680-170409-37	GWC-8A	Total/NA	Water	8081B	577360
680-170409-44	AMW-2	Total/NA	Water	8081B	577360
MB 680-577360/20-A	Method Blank	Total/NA	Water	8081B	577360
LCS 680-577360/21-A	Lab Control Sample	Total/NA	Water	8081B	577360
LCS 680-577360/23-A	Lab Control Sample	Total/NA	Water	8081B	577360
LCSD 680-577360/22-A	Lab Control Sample Dup	Total/NA	Water	8081B	577360
LCSD 680-577360/24-A	Lab Control Sample Dup	Total/NA	Water	8081B	577360

Prep Batch: 618837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-37	GWC-8A	Total/NA	Water	8151A	
680-170409-44	AMW-2	Total/NA	Water	8151A	
MB 460-618837/1-A	Method Blank	Total/NA	Water	8151A	
LCS 460-618837/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 460-618837/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 619804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-37	GWC-8A	Total/NA	Water	8151A	618837
680-170409-44	AMW-2	Total/NA	Water	8151A	618837
MB 460-618837/1-A	Method Blank	Total/NA	Water	8151A	618837
LCS 460-618837/2-A	Lab Control Sample	Total/NA	Water	8151A	618837

GC Semi VOA (Continued)

Analysis Batch: 619804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-618837/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	618837

Metals

Prep Batch: 574190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-4	GWC-10	Total Recoverable	Water	3005A	
680-170257-5	GWC-10A	Total Recoverable	Water	3005A	
680-170257-10	GWC-14	Total Recoverable	Water	3005A	
680-170257-13	GWC-3A	Total Recoverable	Water	3005A	
680-170257-14	GWC-12	Total Recoverable	Water	3005A	
680-170257-16	AMW-13	Total Recoverable	Water	3005A	
680-170257-18	GWA-1A	Total Recoverable	Water	3005A	
680-170257-21	PH1-GWA-1A	Total Recoverable	Water	3005A	
680-170257-22	GWA-1	Total Recoverable	Water	3005A	
680-170257-32	PH1-GWC-3	Total Recoverable	Water	3005A	
680-170257-33	PH1-GWC-3A	Total Recoverable	Water	3005A	
680-170257-37	GWC-14A	Total Recoverable	Water	3005A	
680-170257-38	GWC-19R	Total Recoverable	Water	3005A	
680-170257-39	GWC-18	Total Recoverable	Water	3005A	
680-170257-42	PH1-GWA-1	Total Recoverable	Water	3005A	
680-170257-43	AMW-1 (GWC-15)	Total Recoverable	Water	3005A	
680-170257-48	PH1-GWA-2	Total Recoverable	Water	3005A	
680-170257-50	GWC-24	Total Recoverable	Water	3005A	
MB 680-574190/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574190/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-170257-13 MS	GWC-3A	Total Recoverable	Water	3005A	
680-170257-13 MSD	GWC-3A	Total Recoverable	Water	3005A	

Prep Batch: 574410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-15	GWC-12A	Total Recoverable	Water	3005A	
680-170257-28	GWC-4A	Total Recoverable	Water	3005A	
680-170257-41	PH1-GWC-2	Total Recoverable	Water	3005A	
680-170257-45	GWA-3	Total Recoverable	Water	3005A	
680-170257-47	PH1-GWB-1	Total Recoverable	Water	3005A	
MB 680-574410/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574410/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 574533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-41	PH1-GWC-2	Total/NA	Water	7470A	
MB 680-574533/13-A	Method Blank	Total/NA	Water	7470A	
LCS 680-574533/14-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 574557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-11	GWC-3	Total Recoverable	Water	3005A	
680-170257-46	GWA-2	Total Recoverable	Water	3005A	
MB 680-574557/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574557/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 574633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-4	GWC-10	Total Recoverable	Water	6020A	574190
680-170257-5	GWC-10A	Total Recoverable	Water	6020A	574190
680-170257-10	GWC-14	Total Recoverable	Water	6020A	574190
680-170257-13	GWC-3A	Total Recoverable	Water	6020A	574190
680-170257-14	GWC-12	Total Recoverable	Water	6020A	574190
680-170257-15	GWC-12A	Total Recoverable	Water	6020A	574410
680-170257-16	AMW-13	Total Recoverable	Water	6020A	574190
680-170257-18	GWA-1A	Total Recoverable	Water	6020A	574190
680-170257-21	PH1-GWA-1A	Total Recoverable	Water	6020A	574190
680-170257-22	GWA-1	Total Recoverable	Water	6020A	574190
680-170257-28	GWC-4A	Total Recoverable	Water	6020A	574410
680-170257-32	PH1-GWC-3	Total Recoverable	Water	6020A	574190
680-170257-33	PH1-GWC-3A	Total Recoverable	Water	6020A	574190
680-170257-37	GWC-14A	Total Recoverable	Water	6020A	574190
680-170257-38	GWC-19R	Total Recoverable	Water	6020A	574190
680-170257-39	GWC-18	Total Recoverable	Water	6020A	574190
680-170257-41	PH1-GWC-2	Total Recoverable	Water	6020A	574410
680-170257-42	PH1-GWA-1	Total Recoverable	Water	6020A	574190
680-170257-43	AMW-1 (GWC-15)	Total Recoverable	Water	6020A	574190
680-170257-45	GWA-3	Total Recoverable	Water	6020A	574410
680-170257-47	PH1-GWB-1	Total Recoverable	Water	6020A	574410
680-170257-48	PH1-GWA-2	Total Recoverable	Water	6020A	574190
680-170257-50	GWC-24	Total Recoverable	Water	6020A	574190
MB 680-574190/1-A	Method Blank	Total Recoverable	Water	6020A	574190
MB 680-574410/1-A	Method Blank	Total Recoverable	Water	6020A	574410
LCS 680-574190/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574190
LCS 680-574410/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574410
680-170257-13 MS	GWC-3A	Total Recoverable	Water	6020A	574190
680-170257-13 MSD	GWC-3A	Total Recoverable	Water	6020A	574190

Prep Batch: 574866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-1	GWC-8	Total Recoverable	Water	3005A	
680-170409-2	GWC-2	Total Recoverable	Water	3005A	
680-170409-4	GWC-11	Total Recoverable	Water	3005A	
680-170409-5	GWC-17	Total Recoverable	Water	3005A	
680-170409-8	PHI-GWC-1	Total Recoverable	Water	3005A	
680-170409-9	GWC-1	Total Recoverable	Water	3005A	
680-170409-10	AMW-2 (GWC-16A)	Total Recoverable	Water	3005A	
MB 680-574866/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574866/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 574878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-32	PH1-GWC-3	Total/NA	Water	7470A	
680-170257-33	PH1-GWC-3A	Total/NA	Water	7470A	
680-170257-37	GWC-14A	Total/NA	Water	7470A	
680-170257-38	GWC-19R	Total/NA	Water	7470A	
680-170257-39	GWC-18	Total/NA	Water	7470A	
680-170257-42	PH1-GWA-1	Total/NA	Water	7470A	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 574878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-48	PH1-GWA-2	Total/NA	Water	7470A	
680-170257-50	GWC-24	Total/NA	Water	7470A	
MB 680-574878/13-A	Method Blank	Total/NA	Water	7470A	
LCS 680-574878/14-A	Lab Control Sample	Total/NA	Water	7470A	
680-170257-50 MS	GWC-24	Total/NA	Water	7470A	
680-170257-50 MSD	GWC-24	Total/NA	Water	7470A	

Prep Batch: 574880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-5	GWC-17	Total/NA	Water	7470A	
680-170409-10	AMW-2 (GWC-16A)	Total/NA	Water	7470A	
680-170409-43	GWC-8A	Total/NA	Water	7470A	
MB 680-574880/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-574880/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-170409-10 MS	AMW-2 (GWC-16A)	Total/NA	Water	7470A	
680-170409-10 MSD	AMW-2 (GWC-16A)	Total/NA	Water	7470A	

Prep Batch: 574918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-3	GWC-9	Total Recoverable	Water	3005A	
680-170409-7	PHI-GWC-4	Total Recoverable	Water	3005A	
680-170409-12	GWC-22	Total Recoverable	Water	3005A	
680-170409-13	GWC-7	Total Recoverable	Water	3005A	
680-170409-14	AMW-9	Total Recoverable	Water	3005A	
680-170409-15	PHI-GWB-2	Total Recoverable	Water	3005A	
680-170409-16	GWC-6	Total Recoverable	Water	3005A	
680-170409-17	GWC-5	Total Recoverable	Water	3005A	
680-170409-18	GWC-13	Total Recoverable	Water	3005A	
680-170409-32	GWC-23	Total Recoverable	Water	3005A	
680-170409-33	GWC-23A	Total Recoverable	Water	3005A	
680-170409-34	Field Blank 2	Total Recoverable	Water	3005A	
680-170409-48	Field Blank 1	Total Recoverable	Water	3005A	
680-170409-49	PHI-GWA-3A	Total Recoverable	Water	3005A	
MB 680-574918/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574918/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-170409-49 MS	PHI-GWA-3A	Total Recoverable	Water	3005A	
680-170409-49 MSD	PHI-GWA-3A	Total Recoverable	Water	3005A	

Analysis Batch: 574940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-41	PH1-GWC-2	Total/NA	Water	7470A	574533
MB 680-574533/13-A	Method Blank	Total/NA	Water	7470A	574533
LCS 680-574533/14-A	Lab Control Sample	Total/NA	Water	7470A	574533

Analysis Batch: 575051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-1	GWC-8	Total Recoverable	Water	6020A	574866
680-170409-2	GWC-2	Total Recoverable	Water	6020A	574866
680-170409-4	GWC-11	Total Recoverable	Water	6020A	574866
680-170409-5	GWC-17	Total Recoverable	Water	6020A	574866
680-170409-8	PHI-GWC-1	Total Recoverable	Water	6020A	574866

Metals (Continued)

Analysis Batch: 575051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-9	GWC-1	Total Recoverable	Water	6020A	574866
680-170409-10	AMW-2 (GWC-16A)	Total Recoverable	Water	6020A	574866
MB 680-574866/1-A	Method Blank	Total Recoverable	Water	6020A	574866
LCS 680-574866/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574866

Analysis Batch: 575334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-32	PH1-GWC-3	Total/NA	Water	7470A	574878
680-170257-33	PH1-GWC-3A	Total/NA	Water	7470A	574878
680-170257-37	GWC-14A	Total/NA	Water	7470A	574878
680-170257-38	GWC-19R	Total/NA	Water	7470A	574878
680-170257-39	GWC-18	Total/NA	Water	7470A	574878
680-170257-42	PH1-GWA-1	Total/NA	Water	7470A	574878
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	7470A	574878
680-170257-48	PH1-GWA-2	Total/NA	Water	7470A	574878
680-170257-50	GWC-24	Total/NA	Water	7470A	574878
680-170409-5	GWC-17	Total/NA	Water	7470A	574880
680-170409-10	AMW-2 (GWC-16A)	Total/NA	Water	7470A	574880
680-170409-43	GWC-8A	Total/NA	Water	7470A	574880
MB 680-574878/13-A	Method Blank	Total/NA	Water	7470A	574878
MB 680-574880/1-A	Method Blank	Total/NA	Water	7470A	574880
LCS 680-574878/14-A	Lab Control Sample	Total/NA	Water	7470A	574878
LCS 680-574880/2-A	Lab Control Sample	Total/NA	Water	7470A	574880
680-170257-50 MS	GWC-24	Total/NA	Water	7470A	574878
680-170257-50 MSD	GWC-24	Total/NA	Water	7470A	574878
680-170409-10 MS	AMW-2 (GWC-16A)	Total/NA	Water	7470A	574880
680-170409-10 MSD	AMW-2 (GWC-16A)	Total/NA	Water	7470A	574880

Analysis Batch: 575362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-11	GWC-3	Total Recoverable	Water	6020A	574557
680-170257-46	GWA-2	Total Recoverable	Water	6020A	574557
MB 680-574557/1-A	Method Blank	Total Recoverable	Water	6020A	574557
LCS 680-574557/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574557

Analysis Batch: 575573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-3	GWC-9	Total Recoverable	Water	6020A	574918
680-170409-7	PHI-GWC-4	Total Recoverable	Water	6020A	574918
680-170409-12	GWC-22	Total Recoverable	Water	6020A	574918
680-170409-13	GWC-7	Total Recoverable	Water	6020A	574918
680-170409-14	AMW-9	Total Recoverable	Water	6020A	574918
680-170409-15	PHI-GWB-2	Total Recoverable	Water	6020A	574918
680-170409-16	GWC-6	Total Recoverable	Water	6020A	574918
680-170409-17	GWC-5	Total Recoverable	Water	6020A	574918
680-170409-18	GWC-13	Total Recoverable	Water	6020A	574918
680-170409-32	GWC-23	Total Recoverable	Water	6020A	574918
680-170409-33	GWC-23A	Total Recoverable	Water	6020A	574918
680-170409-34	Field Blank 2	Total Recoverable	Water	6020A	574918
680-170409-48	Field Blank 1	Total Recoverable	Water	6020A	574918
680-170409-49	PHI-GWA-3A	Total Recoverable	Water	6020A	574918

Metals (Continued)

Analysis Batch: 575573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-574918/1-A	Method Blank	Total Recoverable	Water	6020A	574918
LCS 680-574918/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574918
680-170409-49 MS	PHI-GWA-3A	Total Recoverable	Water	6020A	574918
680-170409-49 MSD	PHI-GWA-3A	Total Recoverable	Water	6020A	574918

Prep Batch: 576189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-49	PH1-GWA-4	Total Recoverable	Water	3005A	
680-170409-43	GWC-8A	Total Recoverable	Water	3005A	
MB 680-576189/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-576189/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 576322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-49	PH1-GWA-4	Total Recoverable	Water	6020A	576189
680-170409-43	GWC-8A	Total Recoverable	Water	6020A	576189
MB 680-576189/1-A	Method Blank	Total Recoverable	Water	6020A	576189
LCS 680-576189/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576189

General Chemistry

Prep Batch: 497958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-4	PH1-GWA-1	Total/NA	Water	Distill/CN	
680-172164-7	PH1-GWC-3	Total/NA	Water	Distill/CN	
680-172164-8	PH1-GWC-3A	Total/NA	Water	Distill/CN	
680-172164-9	GWC-14A	Total/NA	Water	Distill/CN	
680-172164-10	GWC-18	Total/NA	Water	Distill/CN	
680-172164-11	GWC-19R	Total/NA	Water	Distill/CN	
680-172164-12	GWC-24	Total/NA	Water	Distill/CN	
680-172164-13	AMW-1	Total/NA	Water	Distill/CN	
MB 500-497958/1-A	Method Blank	Total/NA	Water	Distill/CN	
HLCS 500-497958/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 500-497958/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LLCS 500-497958/4-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 498017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-172164-4	PH1-GWA-1	Total/NA	Water	SM 4500 CN E	497958
680-172164-7	PH1-GWC-3	Total/NA	Water	SM 4500 CN E	497958
680-172164-8	PH1-GWC-3A	Total/NA	Water	SM 4500 CN E	497958
680-172164-9	GWC-14A	Total/NA	Water	SM 4500 CN E	497958
680-172164-10	GWC-18	Total/NA	Water	SM 4500 CN E	497958
680-172164-11	GWC-19R	Total/NA	Water	SM 4500 CN E	497958
680-172164-12	GWC-24	Total/NA	Water	SM 4500 CN E	497958
680-172164-13	AMW-1	Total/NA	Water	SM 4500 CN E	497958
MB 500-497958/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	497958
HLCS 500-497958/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	497958
LCS 500-497958/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	497958
LLCS 500-497958/4-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	497958

General Chemistry

Analysis Batch: 574585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-29	GWC-18	Total/NA	Water	SM 4500 S2 F	
680-170257-30	PH1-GWC-3	Total/NA	Water	SM 4500 S2 F	
680-170257-31	PH1-GWC-3A	Total/NA	Water	SM 4500 S2 F	
680-170257-34	GWC-19R	Total/NA	Water	SM 4500 S2 F	
680-170257-35	GWC-14A	Total/NA	Water	SM 4500 S2 F	
680-170257-36	GWC-24	Total/NA	Water	SM 4500 S2 F	
680-170257-40	PH1-GWA-1	Total/NA	Water	SM 4500 S2 F	
680-170257-41	PH1-GWC-2	Total/NA	Water	SM 4500 S2 F	
680-170257-43	AMW-1 (GWC-15)	Total/NA	Water	SM 4500 S2 F	
680-170257-44	PH1-GWA-2	Total/NA	Water	SM 4500 S2 F	
MB 680-574585/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 680-574585/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 680-574585/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	
680-170257-31 DU	PH1-GWC-3A	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 574924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170409-37	GWC-8A	Total/NA	Water	SM 4500 S2 F	
680-170409-41	GWC-17	Total/NA	Water	SM 4500 S2 F	
680-170409-44	AMW-2	Total/NA	Water	SM 4500 S2 F	
MB 680-574924/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 680-574924/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCSD 680-574924/3	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 F	

Prep Batch: 575290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-41	PH1-GWC-2	Total/NA	Water	Distill/CN	
MB 680-575290/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-575290/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
680-170257-G-29-B MS	680-170257-G-29-B MS	Total/NA	Water	Distill/CN	
680-170257-G-29-C MSD	680-170257-G-29-C MSD	Total/NA	Water	Distill/CN	

Prep Batch: 575593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-44	PH1-GWA-2	Total/NA	Water	Distill/CN	
680-170409-37	GWC-8A	Total/NA	Water	Distill/CN	
680-170409-41	GWC-17	Total/NA	Water	Distill/CN	
680-170409-44	AMW-2	Total/NA	Water	Distill/CN	
MB 680-575593/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-575593/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 575878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-41	PH1-GWC-2	Total/NA	Water	SM 4500 CN E	575290
680-170257-44	PH1-GWA-2	Total/NA	Water	SM 4500 CN E	575593
680-170409-37	GWC-8A	Total/NA	Water	SM 4500 CN E	575593
680-170409-41	GWC-17	Total/NA	Water	SM 4500 CN E	575593
680-170409-44	AMW-2	Total/NA	Water	SM 4500 CN E	575593
MB 680-575290/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	575290
LCS 680-575290/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	575290
LCS 680-575593/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	575593

General Chemistry (Continued)

Analysis Batch: 575878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170257-G-29-B MS	680-170257-G-29-B MS	Total/NA	Water	SM 4500 CN E	575290
680-170257-G-29-C MSD	680-170257-G-29-C MSD	Total/NA	Water	SM 4500 CN E	575290

Analysis Batch: 576305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-575593/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	575593

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3
Lab Sample ID: 680-170257-1
Date Collected: 06/11/19 12:35
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575377	06/24/19 18:06	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWC-14
Lab Sample ID: 680-170257-2
Date Collected: 06/11/19 11:35
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575377	06/24/19 18:52	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWC-3A
Lab Sample ID: 680-170257-3
Date Collected: 06/11/19 12:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575377	06/24/19 18:29	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWC-10
Lab Sample ID: 680-170257-4
Date Collected: 06/11/19 11:05
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:37	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-10A
Lab Sample ID: 680-170257-5
Date Collected: 06/11/19 11:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:41	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-10
Lab Sample ID: 680-170257-6
Date Collected: 06/10/19 15:55
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574996	06/20/19 16:53	Y1S	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-10A — Lab Sample ID: 680-170257-7
Date Collected: 06/10/19 16:00 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574996	06/20/19 17:17	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWC-12 — Lab Sample ID: 680-170257-8
Date Collected: 06/11/19 16:10 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575395	06/24/19 18:09	Y1S	TAL SAV
	Instrument ID: CMSC									

Client Sample ID: GWC-12A — Lab Sample ID: 680-170257-9
Date Collected: 06/11/19 16:10 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575395	06/24/19 18:30	Y1S	TAL SAV
	Instrument ID: CMSC									

Client Sample ID: GWC-14 — Lab Sample ID: 680-170257-10
Date Collected: 06/12/19 08:55 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:42	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-3 — Lab Sample ID: 680-170257-11
Date Collected: 06/12/19 09:10 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574557	06/17/19 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575362	06/22/19 13:28	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AMW-13 — Lab Sample ID: 680-170257-12
Date Collected: 06/11/19 14:50 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 14:41	P1C	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-3A
Lab Sample ID: 680-170257-13
Date Collected: 06/12/19 09:15 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:07	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-12
Lab Sample ID: 680-170257-14
Date Collected: 06/12/19 09:50 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:26	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-12A
Lab Sample ID: 680-170257-15
Date Collected: 06/12/19 09:55 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574410	06/15/19 10:26	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/18/19 01:02	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: AMW-13
Lab Sample ID: 680-170257-16
Date Collected: 06/12/19 09:50 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:30	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: Trip Blank
Lab Sample ID: 680-170257-17
Date Collected: 06/11/19 00:00 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 13:55	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWA-1A
Lab Sample ID: 680-170257-18
Date Collected: 06/10/19 11:30 **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574996	06/20/19 17:40	Y1S	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-1A — Lab Sample ID: 680-170257-18
Date Collected: 06/10/19 11:30 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:01	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWA-1 — Lab Sample ID: 680-170257-19
Date Collected: 06/10/19 12:00 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574996	06/20/19 18:03	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: PH1-GWA-1A — Lab Sample ID: 680-170257-20
Date Collected: 06/10/19 13:00 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574996	06/20/19 18:27	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: PH1-GWA-1A — Lab Sample ID: 680-170257-21
Date Collected: 06/11/19 08:30 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:52	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWA-1 — Lab Sample ID: 680-170257-22
Date Collected: 06/11/19 09:30 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:48	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-4A — Lab Sample ID: 680-170257-23
Date Collected: 06/11/19 10:30 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575377	06/24/19 14:05	P1C	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWA-4 — Lab Sample ID: 680-170257-24
Date Collected: 06/11/19 13:45 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575377	06/24/19 14:28	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: PH1-GWB-1 — Lab Sample ID: 680-170257-25
Date Collected: 06/11/19 14:45 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575077	06/21/19 06:42	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWA-2 — Lab Sample ID: 680-170257-26
Date Collected: 06/11/19 15:15 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575077	06/21/19 07:05	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWA-3 — Lab Sample ID: 680-170257-27
Date Collected: 06/11/19 15:55 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575077	06/21/19 07:28	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: GWC-4A — Lab Sample ID: 680-170257-28
Date Collected: 06/12/19 08:50 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574410	06/15/19 10:26	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/18/19 00:55	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-18 — Lab Sample ID: 680-170257-29
Date Collected: 06/11/19 13:15 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 15:05	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			235 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445656	06/26/19 00:19	VC1	TAL PEN
	Instrument ID: Marianne									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-29
Date Collected: 06/11/19 13:15
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			37.3 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 17:37	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			252.9 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 16:24	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1020.5 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 18:08	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	300 mL	300 mL	574585	06/17/19 16:39	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-30
Date Collected: 06/10/19 13:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574919	06/20/19 03:37	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			250 mL	1 mL	444688	06/17/19 09:48	NTH	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 21:45	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	8011			37.8 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 18:27	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			270.8 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 16:41	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1029 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 21:45	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	305 mL	305 mL	574585	06/17/19 16:42	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31
Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574919	06/20/19 03:14	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			269 mL	1 mL	444688	06/17/19 09:48	NTH	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 22:07	VC1	TAL PEN
	Instrument ID: Marianne									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-31
Date Collected: 06/10/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			37.7 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 18:37	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			268.6 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 16:57	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1029.7 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 22:05	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	295 mL	295 mL	574585	06/17/19 16:46	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-170257-32
Date Collected: 06/11/19 10:35
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:17	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:13	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-170257-33
Date Collected: 06/11/19 10:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:58	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:17	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34
Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 15:28	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			237.2 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445656	06/26/19 00:40	VC1	TAL PEN
	Instrument ID: Marianne									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-34
Date Collected: 06/11/19 14:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			37.3 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 19:37	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			272.7 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 17:13	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1026.2 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 22:24	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	310 mL	310 mL	574585	06/17/19 16:52	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-35
Date Collected: 06/11/19 11:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 15:51	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			226.6 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445656	06/26/19 01:02	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	8011			36.8 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 19:47	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			261.4 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 17:29	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1020.2 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 22:44	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	310 mL	310 mL	574585	06/17/19 16:55	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 16:15	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			231 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 19:59	VC1	TAL PEN
	Instrument ID: Marianne									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-36
Date Collected: 06/11/19 14:55
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			231 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445797	06/26/19 19:46	VC1	TAL PEN
	Instrument ID: Pigpen									
Total/NA	Prep	8011			37.2 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 16:48	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			243.7 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 17:45	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			999.9 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 23:04	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	295 mL	295 mL	574585	06/17/19 16:59	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: GWC-14A
Lab Sample ID: 680-170257-37
Date Collected: 06/12/19 09:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:13	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:38	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: GWC-19R
Lab Sample ID: 680-170257-38
Date Collected: 06/12/19 09:20
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:09	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:42	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-18
Lab Sample ID: 680-170257-39
Date Collected: 06/12/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:33	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:46	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-40
Date Collected: 06/10/19 13:30
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574919	06/20/19 04:24	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			269 mL	1 mL	444688	06/17/19 09:48	NTH	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 21:03	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	8011			37.3 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 18:07	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			254.6 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 18:01	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			966.3 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 23:24	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Analysis	SM 4500 S2 F		1	290 mL	290 mL	574585	06/17/19 17:02	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41
Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	574919	06/20/19 04:01	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			267.8 mL	1 mL	444688	06/17/19 09:48	NTH	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 21:24	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	8011			37.9 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 18:17	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			266.1 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 18:17	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-2
Lab Sample ID: 680-170257-41
Date Collected: 06/10/19 15:30
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			993.5 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/26/19 23:43	JCK	TAL SAV
	Instrument ID: CSGS									
Total Recoverable	Prep	3005A			50 mL	250 mL	574410	06/15/19 10:26	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/18/19 00:59	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574533	06/17/19 12:08	BCB	TAL SAV
Total/NA	Analysis	7470A		1			574940	06/19/19 12:18	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575290	06/21/19 15:23	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 13:46	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 4500 S2 F		1	285 mL	285 mL	574585	06/17/19 17:05	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWA-1
Lab Sample ID: 680-170257-42
Date Collected: 06/11/19 09:30
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:44	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:21	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: AMW-1 (GWC-15)
Lab Sample ID: 680-170257-43
Date Collected: 06/11/19 12:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 16:38	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			229.6 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 20:20	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	3520C			229.6 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445797	06/26/19 20:10	VC1	TAL PEN
	Instrument ID: Pigpen									
Total/NA	Prep	8011			37 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 19:17	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			267.8 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 18:33	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1 (GWC-15)
Lab Sample ID: 680-170257-43
Date Collected: 06/11/19 12:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			1015.3 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/27/19 00:03	JCK	TAL SAV
	Instrument ID: CSGS									
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:29	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:26	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	SM 4500 S2 F		1	320 mL	320 mL	574585	06/17/19 17:08	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: PH1-GWA-2
Lab Sample ID: 680-170257-44
Date Collected: 06/11/19 14:15
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575003	06/20/19 17:01	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			224.6 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/28/19 20:41	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	3520C			224.6 mL	1 mL	444898	06/18/19 15:26	BNL	TAL PEN
Total/NA	Analysis	8270D		1			445797	06/26/19 20:35	VC1	TAL PEN
	Instrument ID: Pigpen									
Total/NA	Prep	8011			37.1 mL	2 mL	574342	06/14/19 13:18	LBH	TAL SAV
Total/NA	Analysis	8011		1			574345	06/14/19 16:58	JCK	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			262.8 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 18:49	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			1014.5 mL	10 mL	574269	06/14/19 09:44	CMJ	TAL SAV
Total/NA	Analysis	8151A		1			575792	06/27/19 00:23	JCK	TAL SAV
	Instrument ID: CSGS									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:24	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 4500 S2 F		1	285 mL	285 mL	574585	06/17/19 17:12	JER	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWA-3 — Lab Sample ID: 680-170257-45
Date Collected: 06/12/19 08:55 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574410	06/15/19 10:26	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/18/19 00:51	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWA-2 — Lab Sample ID: 680-170257-46
Date Collected: 06/12/19 09:10 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574557	06/17/19 13:57	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575362	06/22/19 13:25	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: PH1-GWB-1 — Lab Sample ID: 680-170257-47
Date Collected: 06/12/19 09:15 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574410	06/15/19 10:26	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/18/19 01:06	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: PH1-GWA-2 — Lab Sample ID: 680-170257-48
Date Collected: 06/12/19 09:20 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 17:05	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:50	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: PH1-GWA-4 — Lab Sample ID: 680-170257-49
Date Collected: 06/12/19 09:30 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	576189	06/27/19 14:16	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			576322	06/28/19 16:53	BWR	TAL SAV
	Instrument ID: ICPMSD									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-170257-50
Date Collected: 06/12/19 09:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574190	06/13/19 15:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			574633	06/17/19 16:46	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:55	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: GWC-8
Lab Sample ID: 680-170409-1
Date Collected: 06/13/19 10:05
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 04:02	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-2
Lab Sample ID: 680-170409-2
Date Collected: 06/13/19 10:20
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 03:38	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-9
Lab Sample ID: 680-170409-3
Date Collected: 06/13/19 10:25
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:11	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-11
Lab Sample ID: 680-170409-4
Date Collected: 06/13/19 10:30
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 03:58	BJB	TAL SAV
	Instrument ID: ICPMSD									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-17 — Lab Sample ID: 680-170409-5
Date Collected: 06/13/19 10:40 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 03:50	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574880	06/19/19 12:47	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 15:40	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: AMW-14 — Lab Sample ID: 680-170409-6
Date Collected: 06/13/19 11:50 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 04:18	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: PHI-GWC-4 — Lab Sample ID: 680-170409-7
Date Collected: 06/13/19 09:45 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:14	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: PHI-GWC-1 — Lab Sample ID: 680-170409-8
Date Collected: 06/13/19 09:50 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 03:54	BJB	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: GWC-1 — Lab Sample ID: 680-170409-9
Date Collected: 06/13/19 10:00 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 04:06	BJB	TAL SAV
	Instrument ID: ICPMSD									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-2 (GWC-16A) — Lab Sample ID: 680-170409-10
Date Collected: 06/13/19 10:05 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574866	06/19/19 11:09	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575051	06/20/19 04:10	BJB	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574880	06/19/19 12:47	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 15:15	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: Trip Blank — Lab Sample ID: 680-170409-11
Date Collected: 06/13/19 00:00 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 02:21	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-22 — Lab Sample ID: 680-170409-12
Date Collected: 06/13/19 09:15 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:03	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-7 — Lab Sample ID: 680-170409-13
Date Collected: 06/13/19 10:00 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:18	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AMW-9 — Lab Sample ID: 680-170409-14
Date Collected: 06/13/19 09:50 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:22	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWB-2
Date Collected: 06/13/19 09:45
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 18:45	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-6
Date Collected: 06/13/19 10:10
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 18:48	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-5
Date Collected: 06/13/19 10:15
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 18:59	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-13
Date Collected: 06/13/19 10:20
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 18:41	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: PHI-GWC-4
Date Collected: 06/13/19 10:50
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 15:30	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-1
Date Collected: 06/13/19 11:15
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 15:53	Y1S	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-12 — Lab Sample ID: 680-170409-21
Date Collected: 06/13/19 12:05 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 04:41	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: AMW-12R — Lab Sample ID: 680-170409-22
Date Collected: 06/13/19 11:50 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 02:45	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-22 — Lab Sample ID: 680-170409-23
Date Collected: 06/12/19 12:25 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 16:16	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-23 — Lab Sample ID: 680-170409-24
Date Collected: 06/12/19 11:00 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 16:39	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-23A — Lab Sample ID: 680-170409-25
Date Collected: 06/12/19 11:50 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 17:03	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-13 — Lab Sample ID: 680-170409-26
Date Collected: 06/12/19 13:00 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 17:26	Y1S	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-7
Lab Sample ID: 680-170409-27
Date Collected: 06/12/19 13:30
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 17:49	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-6
Lab Sample ID: 680-170409-28
Date Collected: 06/12/19 14:00
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 18:12	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-5
Lab Sample ID: 680-170409-29
Date Collected: 06/12/19 14:15
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 18:36	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: PHI-GWB-2
Lab Sample ID: 680-170409-30
Date Collected: 06/12/19 14:45
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 18:59	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: AMW-9
Lab Sample ID: 680-170409-31
Date Collected: 06/12/19 15:10
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575556	06/25/19 14:42	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-23
Lab Sample ID: 680-170409-32
Date Collected: 06/13/19 09:05
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:33	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-23A — Lab Sample ID: 680-170409-33
Date Collected: 06/13/19 09:10 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:29	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: Field Blank 2 — Lab Sample ID: 680-170409-34
Date Collected: 06/12/19 11:10 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 19:22	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:25	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: GWC-14R — Lab Sample ID: 680-170409-35
Date Collected: 06/12/19 11:30 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575556	06/25/19 19:22	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-8 — Lab Sample ID: 680-170409-36
Date Collected: 06/12/19 12:45 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 19:45	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-8A — Lab Sample ID: 680-170409-37
Date Collected: 06/12/19 12:55 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575556	06/25/19 13:55	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			35.7 mL	2 mL	575095	06/20/19 15:50	LBH	TAL SAV
Total/NA	Analysis	8011		1			575139	06/21/19 03:05	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			266.3 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 19:05	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A
Lab Sample ID: 680-170409-37
Date Collected: 06/12/19 12:55
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			250 mL	3 mL	618837	06/19/19 22:28	AFR	TAL EDI
Total/NA	Analysis	8151A		1			619804	06/24/19 17:58	SAK	TAL EDI
	Instrument ID: CPESTGC3									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:26	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 4500 S2 F		1	290 mL	290 mL	574924	06/19/19 15:34	JER	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: GWC-8R
Lab Sample ID: 680-170409-38
Date Collected: 06/12/19 13:15
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575556	06/25/19 14:19	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-9
Lab Sample ID: 680-170409-39
Date Collected: 06/12/19 14:25
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 20:08	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-11
Lab Sample ID: 680-170409-40
Date Collected: 06/12/19 14:55
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 20:32	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-17
Lab Sample ID: 680-170409-41
Date Collected: 06/12/19 15:15
Matrix: Water
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575556	06/25/19 17:48	P1C	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	8011			35.4 mL	2 mL	575095	06/20/19 15:50	LBH	TAL SAV
Total/NA	Analysis	8011		1			575139	06/21/19 02:55	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:27	ALG	TAL SAV
	Instrument ID: LACHAT1									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-17
Date Collected: 06/12/19 15:15
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 F		1	210 mL	210 mL	574924	06/19/19 15:36	JER	TAL SAV

Client Sample ID: GWC-2
Date Collected: 06/12/19 15:35
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 20:55	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: GWC-8A
Date Collected: 06/13/19 10:00
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-43
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	576189	06/27/19 14:16	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			576322	06/28/19 16:49	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	574880	06/19/19 12:47	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 15:36	BCB	TAL SAV
	Instrument ID: LEEMAN2									

Client Sample ID: AMW-2
Date Collected: 06/13/19 11:30
Date Received: 06/15/19 07:30

Lab Sample ID: 680-170409-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 03:08	SMP	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3520C			240.3 mL	1 mL	445193	06/20/19 14:48	CGM	TAL PEN
Total/NA	Analysis	8270D		1			446144	06/29/19 00:36	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	8011			36.5 mL	2 mL	575095	06/20/19 15:50	LBH	TAL SAV
Total/NA	Analysis	8011		1			575139	06/21/19 03:15	LBH	TAL SAV
	Instrument ID: CSGX									
Total/NA	Prep	3520C			271.9 mL	2.5 mL	577360	07/10/19 14:27	EHS	TAL SAV
Total/NA	Analysis	8081B		1			578013	07/15/19 19:21	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	8151A			250 mL	3 mL	618837	06/19/19 22:28	AFR	TAL EDI
Total/NA	Analysis	8151A		1			619804	06/24/19 18:14	SAK	TAL EDI
	Instrument ID: CPESTGC3									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:28	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 4500 S2 F		1	310 mL	310 mL	574924	06/19/19 15:38	JER	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PHI-GWC-1 — Lab Sample ID: 680-170409-45
Date Collected: 06/13/19 12:20 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 21:18	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: AMW-5 — Lab Sample ID: 680-170409-46
Date Collected: 06/13/19 12:45 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 03:31	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: AMW-4 — Lab Sample ID: 680-170409-47
Date Collected: 06/13/19 13:05 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575656	06/26/19 03:54	SMP	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: Field Blank 1 — Lab Sample ID: 680-170409-48
Date Collected: 06/13/19 13:10 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 21:41	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 19:07	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: PHI-GWA-3A — Lab Sample ID: 680-170409-49
Date Collected: 06/13/19 14:05 — **Matrix: Water**
Date Received: 06/15/19 07:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 22:04	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total Recoverable	Prep	3005A			50 mL	250 mL	574918	06/19/19 15:01	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575573	06/24/19 18:22	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-8A — Lab Sample ID: 680-172164-1

Date Collected: 07/24/19 17:30 — **Matrix: Water**
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			244.6 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			450777	08/03/19 16:43	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	3520C			244.6 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			451113	08/06/19 16:44	VC1	TAL PEN
	Instrument ID: Pigpen									

Client Sample ID: GWC-8R — Lab Sample ID: 680-172164-2

Date Collected: 07/24/19 17:50 — **Matrix: Water**
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			257.8 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			450777	08/03/19 17:05	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	3520C			257.8 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			451113	08/06/19 17:09	VC1	TAL PEN
	Instrument ID: Pigpen									

Client Sample ID: GWC-14R — Lab Sample ID: 680-172164-3

Date Collected: 07/24/19 15:30 — **Matrix: Water**
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			261.4 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			450777	08/03/19 17:26	VC1	TAL PEN
	Instrument ID: Marianne									
Total/NA	Prep	3520C			261.4 mL	1 mL	450094	07/30/19 16:14	CGM	TAL PEN
Total/NA	Analysis	8270D		1			451113	08/06/19 17:35	VC1	TAL PEN
	Instrument ID: Pigpen									

Client Sample ID: PH1-GWA-1 — Lab Sample ID: 680-172164-4

Date Collected: 07/24/19 15:00 — **Matrix: Water**
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8						(Start)	08/02/19 14:37		
							(End)	08/02/19 14:38		

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: PH1-GWC-3
Lab Sample ID: 680-172164-7
Date Collected: 07/24/19 13:00
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:37		
								(End) 08/02/19 14:38		

Client Sample ID: PH1-GWC-3A
Lab Sample ID: 680-172164-8
Date Collected: 07/24/19 12:30
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:38		
								(End) 08/02/19 14:38		

Client Sample ID: GWC-14A
Lab Sample ID: 680-172164-9
Date Collected: 07/24/19 15:20
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:38		
								(End) 08/02/19 14:38		

Client Sample ID: GWC-18
Lab Sample ID: 680-172164-10
Date Collected: 07/24/19 15:40
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:38		
								(End) 08/02/19 14:39		

Client Sample ID: GWC-19R
Lab Sample ID: 680-172164-11
Date Collected: 07/24/19 16:25
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:39		
								(End) 08/02/19 14:39		

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: GWC-24
Lab Sample ID: 680-172164-12
Date Collected: 07/24/19 13:35
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:39		
								(End) 08/02/19 14:39		

Client Sample ID: AMW-1
Lab Sample ID: 680-172164-13
Date Collected: 07/24/19 13:55
Matrix: Water
Date Received: 07/26/19 06:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			50 mL	50 mL	497958	08/02/19 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1			498017		MS	TAL CHI
	Instrument ID: SPEC8							(Start) 08/02/19 14:39		
								(End) 08/02/19 14:40		

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	41450	06-30-20
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
Florida	NELAP	4	E87052	06-30-20
GA Dept. of Agriculture	State Program	4	N/A	06-12-20
Georgia	State Program	4	803	06-30-20
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-20
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-20
Iowa	State Program	7	353	06-30-21
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-20
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-20
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-20
Michigan	State Program	5	9925	06-30-20
Mississippi	State Program	4	N/A	06-30-20
Nebraska	State Program	7	TestAmerica-Savannah	06-30-20
New Jersey	NELAP	2	GA769	06-30-20
New Mexico	State Program	6	N/A	06-30-20
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-20
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19 *
Pennsylvania	NELAP	3	68-00474	06-30-20
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-20
Texas	NELAP	6	T104704185-19-13	11-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-20
Washington	State Program	10	C805	06-10-20
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19 *
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State		2903	04-30-20
California	State Program	9	2903	04-30-20
Georgia	State Program	4	N/A	04-30-20
Georgia	State Program	4	939	04-30-20
Hawaii	State Program	9	N/A	04-30-20
Illinois	NELAP	5	100201	04-30-20
Indiana	State Program	5	C-IL-02	04-30-20
Iowa	State Program	7	82	05-01-20
Kansas	NELAP	7	E-10161	10-31-19 *
Kentucky (UST)	State Program	4	66	04-30-20
Kentucky (WW)	State Program	4	KY90023	12-31-19
Louisiana	NELAP	6	30720	06-30-20
Mississippi	State Program	4	N/A	04-30-20
New York	NELAP	2	12019	04-01-20
New York	NELAP		12019	04-01-20
North Carolina (WW/SW)	State Program	4	291	12-31-19
North Dakota	State Program	8	R-194	04-30-20
Oklahoma	State		8908	08-31-19
Oklahoma	State Program	6	8908	08-31-19 *
South Carolina	State Program	4	77001	04-30-20
Wisconsin	State Program	5	999580010	08-31-19 *
Wyoming	State Program	8	8TMS-Q	04-30-20

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State		PH-0200	09-30-20
Connecticut	State Program	1	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-19
New Jersey	NELAP	2	12028	06-30-20
New York	NELAP	2	11452	04-01-20
New York	NELAP		11452	04-01-20
Pennsylvania	NELAP	3	68-00522	02-28-20
Pennsylvania	NELAP		68-00522	02-28-20
Rhode Island	State		LAO00132	12-30-19
Rhode Island	State Program	1	LAO00132	12-30-19
USDA	Federal		NJCA-003-08	05-03-21
USDA	US Federal Programs		P330-18-00135	05-03-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State		40150	07-01-20
Alabama	State Program	4	40150	06-30-20
ANAB	ISO/IEC 17025		L2471	02-22-20
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State		AZ0710	01-12-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-20
Florida	NELAP	4	E81010	06-30-20
Florida	NELAP		E81010	06-30-20
Georgia	State Program	4	E81010 (FL)	06-30-20
Illinois	NELAP	5	200041	10-09-19
Illinois	NELAP		004586	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-20
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-20
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-20
Massachusetts	State Program	1	M-FL094	06-30-20
Michigan	State		9912	05-06-20
Michigan	State Program	5	9912	05-06-20
New Jersey	NELAP	2	FL006	06-30-20
New Jersey	NELAP		FL006	07-30-20
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State		9810-186	08-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Pennsylvania	NELAP		68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19 *
Tennessee	State Program	4	TN02907	06-30-20
Texas	NELAP	6	T104704286-18-15	09-30-19
Texas	NELAP		T104704286	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-20
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-20
Washington	State Program	10	C915	05-15-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PEN
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL SAV
8081B	Organochlorine Pesticides by GC	SW846	TAL SAV
8151A	Herbicides (GC)	SW846	TAL EDI
8151A	Herbicides (GC)	SW846	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
SM 4500 CN E	Cyanide, Total	SM	TAL CHI
SM 4500 CN E	Cyanide, Total	SM	TAL SAV
SM 4500 S2 F	Sulfide, Total	SM	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL PEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV
8011	Microextraction	SW846	TAL SAV
8151A	Extraction (Herbicides)	SW846	TAL EDI
8151A	Extraction (Herbicides)	SW846	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL CHI
Distill/CN	Distillation, Cyanide	None	TAL SAV

Protocol References:

None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-170257-1	GWC-3	Water	06/11/19 12:35	06/13/19 07:25	
680-170257-2	GWC-14	Water	06/11/19 11:35	06/13/19 07:25	
680-170257-3	GWC-3A	Water	06/11/19 12:45	06/13/19 07:25	
680-170257-4	GWC-10	Water	06/11/19 11:05	06/13/19 07:25	
680-170257-5	GWC-10A	Water	06/11/19 11:00	06/13/19 07:25	
680-170257-6	GWC-10	Water	06/10/19 15:55	06/13/19 07:25	
680-170257-7	GWC-10A	Water	06/10/19 16:00	06/13/19 07:25	
680-170257-8	GWC-12	Water	06/11/19 16:10	06/13/19 07:25	
680-170257-9	GWC-12A	Water	06/11/19 16:10	06/13/19 07:25	
680-170257-10	GWC-14	Water	06/12/19 08:55	06/13/19 07:25	
680-170257-11	GWC-3	Water	06/12/19 09:10	06/13/19 07:25	
680-170257-12	AMW-13	Water	06/11/19 14:50	06/13/19 07:25	
680-170257-13	GWC-3A	Water	06/12/19 09:15	06/13/19 07:25	
680-170257-14	GWC-12	Water	06/12/19 09:50	06/13/19 07:25	
680-170257-15	GWC-12A	Water	06/12/19 09:55	06/13/19 07:25	
680-170257-16	AMW-13	Water	06/12/19 09:50	06/13/19 07:25	
680-170257-17	Trip Blank	Water	06/11/19 00:00	06/13/19 07:25	
680-170257-18	GWA-1A	Water	06/10/19 11:30	06/13/19 07:25	
680-170257-19	GWA-1	Water	06/10/19 12:00	06/13/19 07:25	
680-170257-20	PH1-GWA-1A	Water	06/10/19 13:00	06/13/19 07:25	
680-170257-21	PH1-GWA-1A	Water	06/11/19 08:30	06/13/19 07:25	
680-170257-22	GWA-1	Water	06/11/19 09:30	06/13/19 07:25	
680-170257-23	GWC-4A	Water	06/11/19 10:30	06/13/19 07:25	
680-170257-24	PH1-GWA-4	Water	06/11/19 13:45	06/13/19 07:25	
680-170257-25	PH1-GWB-1	Water	06/11/19 14:45	06/13/19 07:25	
680-170257-26	GWA-2	Water	06/11/19 15:15	06/13/19 07:25	
680-170257-27	GWA-3	Water	06/11/19 15:55	06/13/19 07:25	
680-170257-28	GWC-4A	Water	06/12/19 08:50	06/13/19 07:25	
680-170257-29	GWC-18	Water	06/11/19 13:15	06/13/19 07:25	
680-170257-30	PH1-GWC-3	Water	06/10/19 13:40	06/13/19 07:25	
680-170257-31	PH1-GWC-3A	Water	06/10/19 13:45	06/13/19 07:25	
680-170257-32	PH1-GWC-3	Water	06/11/19 10:35	06/13/19 07:25	
680-170257-33	PH1-GWC-3A	Water	06/11/19 10:40	06/13/19 07:25	
680-170257-34	GWC-19R	Water	06/11/19 14:00	06/13/19 07:25	
680-170257-35	GWC-14A	Water	06/11/19 11:40	06/13/19 07:25	
680-170257-36	GWC-24	Water	06/11/19 14:55	06/13/19 07:25	
680-170257-37	GWC-14A	Water	06/12/19 09:00	06/13/19 07:25	
680-170257-38	GWC-19R	Water	06/12/19 09:20	06/13/19 07:25	
680-170257-39	GWC-18	Water	06/12/19 09:30	06/13/19 07:25	
680-170257-40	PH1-GWA-1	Water	06/10/19 13:30	06/13/19 07:25	
680-170257-41	PH1-GWC-2	Water	06/10/19 15:30	06/13/19 07:25	
680-170257-42	PH1-GWA-1	Water	06/11/19 09:30	06/13/19 07:25	
680-170257-43	AMW-1 (GWC-15)	Water	06/11/19 12:40	06/13/19 07:25	
680-170257-44	PH1-GWA-2	Water	06/11/19 14:15	06/13/19 07:25	
680-170257-45	GWA-3	Water	06/12/19 08:55	06/13/19 07:25	
680-170257-46	GWA-2	Water	06/12/19 09:10	06/13/19 07:25	
680-170257-47	PH1-GWB-1	Water	06/12/19 09:15	06/13/19 07:25	
680-170257-48	PH1-GWA-2	Water	06/12/19 09:20	06/13/19 07:25	
680-170257-49	PH1-GWA-4	Water	06/12/19 09:30	06/13/19 07:25	
680-170257-50	GWC-24	Water	06/12/19 09:45	06/13/19 07:25	
680-170409-1	GWC-8	Water	06/13/19 10:05	06/15/19 07:30	
680-170409-2	GWC-2	Water	06/13/19 10:20	06/15/19 07:30	
680-170409-3	GWC-9	Water	06/13/19 10:25	06/15/19 07:30	

Sample Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-170409-4	GWC-11	Water	06/13/19 10:30	06/15/19 07:30	
680-170409-5	GWC-17	Water	06/13/19 10:40	06/15/19 07:30	
680-170409-6	AMW-14	Water	06/13/19 11:50	06/15/19 07:30	
680-170409-7	PHI-GWC-4	Water	06/13/19 09:45	06/15/19 07:30	
680-170409-8	PHI-GWC-1	Water	06/13/19 09:50	06/15/19 07:30	
680-170409-9	GWC-1	Water	06/13/19 10:00	06/15/19 07:30	
680-170409-10	AMW-2 (GWC-16A)	Water	06/13/19 10:05	06/15/19 07:30	
680-170409-11	Trip Blank	Water	06/13/19 00:00	06/15/19 07:30	
680-170409-12	GWC-22	Water	06/13/19 09:15	06/15/19 07:30	
680-170409-13	GWC-7	Water	06/13/19 10:00	06/15/19 07:30	
680-170409-14	AMW-9	Water	06/13/19 09:50	06/15/19 07:30	
680-170409-15	PHI-GWB-2	Water	06/13/19 09:45	06/15/19 07:30	
680-170409-16	GWC-6	Water	06/13/19 10:10	06/15/19 07:30	
680-170409-17	GWC-5	Water	06/13/19 10:15	06/15/19 07:30	
680-170409-18	GWC-13	Water	06/13/19 10:20	06/15/19 07:30	
680-170409-19	PHI-GWC-4	Water	06/13/19 10:50	06/15/19 07:30	
680-170409-20	GWC-1	Water	06/13/19 11:15	06/15/19 07:30	
680-170409-21	AMW-12	Water	06/13/19 12:05	06/15/19 07:30	
680-170409-22	AMW-12R	Water	06/13/19 11:50	06/15/19 07:30	
680-170409-23	GWC-22	Water	06/12/19 12:25	06/15/19 07:30	
680-170409-24	GWC-23	Water	06/12/19 11:00	06/15/19 07:30	
680-170409-25	GWC-23A	Water	06/12/19 11:50	06/15/19 07:30	
680-170409-26	GWC-13	Water	06/12/19 13:00	06/15/19 07:30	
680-170409-27	GWC-7	Water	06/12/19 13:30	06/15/19 07:30	
680-170409-28	GWC-6	Water	06/12/19 14:00	06/15/19 07:30	
680-170409-29	GWC-5	Water	06/12/19 14:15	06/15/19 07:30	
680-170409-30	PHI-GWB-2	Water	06/12/19 14:45	06/15/19 07:30	
680-170409-31	AMW-9	Water	06/12/19 15:10	06/15/19 07:30	
680-170409-32	GWC-23	Water	06/13/19 09:05	06/15/19 07:30	
680-170409-33	GWC-23A	Water	06/13/19 09:10	06/15/19 07:30	
680-170409-34	Field Blank 2	Water	06/12/19 11:10	06/15/19 07:30	
680-170409-35	GWC-14R	Water	06/12/19 11:30	06/15/19 07:30	
680-170409-36	GWC-8	Water	06/12/19 12:45	06/15/19 07:30	
680-170409-37	GWC-8A	Water	06/12/19 12:55	06/15/19 07:30	
680-170409-38	GWC-8R	Water	06/12/19 13:15	06/15/19 07:30	
680-170409-39	GWC-9	Water	06/12/19 14:25	06/15/19 07:30	
680-170409-40	GWC-11	Water	06/12/19 14:55	06/15/19 07:30	
680-170409-41	GWC-17	Water	06/12/19 15:15	06/15/19 07:30	
680-170409-42	GWC-2	Water	06/12/19 15:35	06/15/19 07:30	
680-170409-43	GWC-8A	Water	06/13/19 10:00	06/15/19 07:30	
680-170409-44	AMW-2	Water	06/13/19 11:30	06/15/19 07:30	
680-170409-45	PHI-GWC-1	Water	06/13/19 12:20	06/15/19 07:30	
680-170409-46	AMW-5	Water	06/13/19 12:45	06/15/19 07:30	
680-170409-47	AMW-4	Water	06/13/19 13:05	06/15/19 07:30	
680-170409-48	Field Blank 1	Water	06/13/19 13:10	06/15/19 07:30	
680-170409-49	PHI-GWA-3A	Water	06/13/19 14:05	06/15/19 07:30	
680-172164-1	GWC-8A	Water	07/24/19 17:30	07/26/19 06:55	
680-172164-2	GWC-8R	Water	07/24/19 17:50	07/26/19 06:55	
680-172164-3	GWC-14R	Water	07/24/19 15:30	07/26/19 06:55	
680-172164-4	PH1-GWA-1	Water	07/24/19 15:00	07/26/19 06:55	
680-172164-7	PH1-GWC-3	Water	07/24/19 13:00	07/26/19 06:55	
680-172164-8	PH1-GWC-3A	Water	07/24/19 12:30	07/26/19 06:55	
680-172164-9	GWC-14A	Water	07/24/19 15:20	07/26/19 06:55	

Sample Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170257-1
Project/Site: Forsyth County - Hightower Road Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-172164-10	GWC-18	Water	07/24/19 15:40	07/26/19 06:55	
680-172164-11	GWC-19R	Water	07/24/19 16:25	07/26/19 06:55	
680-172164-12	GWC-24	Water	07/24/19 13:35	07/26/19 06:55	
680-172164-13	AMW-1	Water	07/24/19 13:55	07/26/19 06:55	

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: O. Fuqua	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770)534-5948	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	6020A - Appendix I Metals	6010 - APP I Metals	APP I VOCs 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	D	B	H		
GWC-8	6-13-19	1005	G	Water	N	N	1			3	
GWC-2	6-13-19	1020	G	Water	N	N	1			3	
GWC-9	6-13-19	1025	G	Water	N	N	1			3	
GWC-11	6-13-19	1030	G	Water	N	N	1			3	
GWC-17	6-13-19	1040	G	Water	N	N		1		2	
AMW-14	6-13-19	1150	G	Water	N	N	3			6	
PH1-GWC-4	6-13-19	0945	G	Water	N	N	1			3	
PH1-GWC-1	6-13-19	0950	G	Water	N	N	1			3	
GWC-1	6-13-19	1000	G	Water	N	N	1	1	X	4	
AMW-2	6-13-19	1005	G	Water	N	N		1		2	
Trip Blank	—	—	G	Water	N	N			3	3	

680-170409 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6-14-19 1140	ACC		6/14/19 11:40	ETA
2	11:40		ETA		6/15/19 730	TASH
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1:1.1, 2:2.7, 3.0|3.0

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

681-Atlanta

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: C. FUQUA	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770) 914-5998	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B - Appendix I VOCs	6020A - Appendix I Metals	App II VOCs	Number of Containers	Special Instructions/Note:
GWC-22	6-13-19	0915	G	Water	N	✓		1	APPENDIX 1
GWC-7	6-13-19	1000	G	Water	N	✓		1	
AMW-9	6-13-19	0950	G	Water	N	✓		1	
PH1-GWB-2	6-13-19	0945	G	Water	N	✓		1	
GWC-6	6-13-19	1010	G	Water	N	✓		1	
GWC-5	6-13-19	1015	G	Water	N	✓		1	
GWC-13	6-13-19	1020	G	Water	N	✓		1	
PH1-GWC-4	6-13-19	1050	G	Water	N	✓		3	
GWC-1	6-13-19	1115	G	Water	N	✓		3	
AMW-12	6-13-19	1205	G	Water	N		✓	3	
AMW-12R	6-13-19	1150	G	Water	N		✓	3	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6-14-19 1140	ACC		6/14/19 11:40	E-TA
Relinquished by:	Date/Time: 6/14/19	Company ETA	Received by:	Date/Time: 6/15/19 730	Company TRAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

8/7/2019

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

681-Atlanta

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: J Bostford	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: 770-598-5998	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			Preservation Codes:
City: Roswell	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@aticc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B - Appendix I VOCs	8020A - Appendix I Metals	App II VOCs	Number of Containers	Special Instructions/Note:
GWC-22	6-12-19	1225	G	Water	N N	✓		3	APPENDIX 1
GWC-23	6-12-19	1100	G	Water	N N	✓		3	
GWC-23A	6-12-19	1150	G	Water	N N	✓		3	
GWC-13	6-12-19	1300	G	Water	N N	✓		3	
GWC-7	6-12-19	1330	G	Water	N N	✓		3	
GWC-6	6-12-19	1400	G	Water	N N	✓		3	
GWC-5	6-12-19	1415	G	Water	N N	✓		3	
PHI-GWB-2	6-12-19	1445	G	Water	N N	✓		3	
AMW-9	6-12-19	1510	G	Water	N N	X	✓	3	
GWC-23	6-13-19	0905	G	Water	N N		✓	1	
GWC-23A	6-13-19	0910	G	Water	N N		✓	1	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6-14-19 1140	ACC		6/14/19 1140	E-TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
6-14-19	11:40	E-TA		6/15/19 738	TASAV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

8/7/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins Environment Testing TestAmerica

Client Information	Sampler: O. Fuquen / A. Schnittker	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-105107-41132.6
Client Contact: Mr. Charles Adams	Phone: 770-694-5998	E-Mail: willie.hallmon@testamericainc.com		Page: Page 6 of 6
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	8270D - Appendix II SVOCs	8151A - Appendix II Chlorinated Herbicides by GC	4500_CN_E - Local Method	SM4500_S2_F - Local Method	Appendix II Metals + Hg	8011 - EDB, DBCP & 1,2,3-TCP	8081B_8082A - OC Pesticides and PCBs	8260 - APP I VOCs	8020 - APP I VOCs				Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N	N	B	CB	D	A	N	A	A	-	-	-	X	
Field Blank 2	6/12/19	11:10	G	Water	N	N								3	1				4	
GWC-14R	6/12/19	11:30	G	Water	N	N	3	2											6	
GWC-8	6/12/19	12:45	G	Water	N	N								3					3	
GWC-8A	6/12/19	12:55	G	Water	N	N	3	2	2	1	2		3	2					15	
GWC-8R	6/12/19	1315	G	Water	N	N	3	2											5	
GWC-9	6/12/19	1425	G	Water	N	N								3					3	
GWC-11	6/12/19	1455	G	Water	N	N								3					3	
GWC-17	6/12/19	1515	G	Water	N	N	3			1	2		3						9	limited sample
GWC-2	6/12/19	1535	G	Water	N	N								3					3	
GWC-8A	6/13/19	1000	G	Water	N	N						1							1	
AMW-2	6-13-19	1130	G	Water	N	N	3	2	2	1	2		3	2					15	Label ID = GWC-16A

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6-14-19 1140	ACC		6/14/19 1540	EC
2	Relinquished by:	Date/Time: 1540	Company ETM	Received by:	Date/Time: 6/15/19 730	Company TBF SAV
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: O. FORYA	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770) 594-5991	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	6020A - Appendix I Metals	App I VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	D			
PH1-GWC-1	6-13-19	1220	G	Water	NN			✓	3	
AMW-5	6-13-19	1245	G	Water	NN	✓			3	
AMW-4	6-13-19	1305	G	Water	NN	✓			3	
Field Blank-1	6-13-19	1310	G	Water	NN		✓	✓	3	
PH1-GWA-3A	6-13-19	1405	G	Water	NN		✓	✓	3	
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6-14-19 1140	Company: ACC	Received by: 6/14/19 Date/Time: 1140 Company: ETA
Relinquished by: 6/14/19	Date/Time: 1140	Company: ETA	Received by: Date/Time: 6/15/19 720 Company: TASAV
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

681-Atlanta

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: J. Benisford	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770)794-5498	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			Preservation Codes:
City: Roswell	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			Other:
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

680-170257 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B - Appendix I VOCs	6020A - Appendix I Metals	Number of Containers	Special Instructions/Note:
GWC-3	6-11-19	1235	G	Water	MN	✓	3	APPENDIX 1
GWC-14	6-11-19	1135	G	Water	MN	✓	3	
GWC-3A	6-11-19	1245	G	Water	MN	✓	3	
GWC-10	6-10-19	1105	G	Water	MN	✓	1	
GWC-10A	6-11-19	1100	G	Water	MN	✓	1	
GWC-10	6-10-19	1555	G	Water	MN	✓	3	
GWC-10A	6-10-19	1600	G	Water	MN	✓	3	
GWC-12	6-11-19	1610	G	Water	MN	✓	3	
GWC-12A	6-11-19	1610	G	Water	MN	✓	3	
GWC-14	6-12-19	0855	G	Water	MN	✓	1	
GWC-3	6-12-19	0910	G	Water	MN	✓	1	

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6-12-19 / 1600	ACC	[signature]	6/12/19 1610	ETA
2	[signature]	6/12/19 16:10	ETA	[signature]	/	
3	[signature]	/		[signature]	0639	0725 SAV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.3/4.9/4.9/2.1/3.1 (CF) 5.3/4.4/4.9/2.1/3.1°C

8/7/2019

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: J. Bernsford	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770) 591-5948	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.				Job #:

Address: 630 Colonial Park Drive Suite 110	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Roswell	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075			
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required		Other:
Email: cadams@atlcc.net	WO #:		
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	6020A - Appendix I Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	D		
AMW-13	6-11-19	1450	6	Water	N	✓		3	
GWC-3A	6-12-19	0915	6	Water	N		✓	1	
GWC-12	6-12-19	0950	6	Water	N		✓	1	
GWC-12A	6-12-19	0955	6	Water	N		✓	1	
AMW-13	6-12-19	0950	6	Water	N		✓	1	
Trip Blank	—	—	6	Water	N	✓		3	
				Water					
				Water					
				Water					
				Water					
				Water					

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Taylor Hall	Date/Time: 6-12-19 1600	Company: ACC	Received by:	Date/Time: 6/12/19 16:00	Company: ETA
Relinquished by:	Date/Time: 6/12/19 1610	Company: ACC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 06-13-19 0725	Company: SAV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.3 4.9 4.9 2.1 3.1 P

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

681-Atlanta

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: O. FUQUEA	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: (770) 594-5998	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of
Company: Atlantic Coast Consulting, Inc.				Job #:

Address: 630 Colonial Park Drive Suite 110	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Roswell	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075			
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required		
Email: cadams@atlcc.net	WO #:		Other:
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B - Appendix I VOCs	6020A - Appendix I Metals	Special Instructions/Note:
GWA-1A	6-10-19	1130	G	Water	N N	3 1	APPENDIX 1
GWA-1	6-10-19	1200	G	Water	N N	3	
PH1-GWA-1A	6-10-19	1300	G	Water	N N	3	
PH1-GWA-1A	6-11-19	0830	G	Water	N N	1	
GWA-1	6-11-19	0930	G	Water	N N	1	
GWC-4A	6-11-19	1030	G	Water	N N	3	
PH1-GWA-4	6-11-19	1345	G	Water	N N	3	
PH1-GWB-1	6-11-19	1445	G	Water	N N	3	
GWA-2	6-11-19	1515	G	Water	N N	3	
GWA-3	6-11-19	1555	G	Water	N N	3	
GWC-4A	6-12-19	0850	G	Water	N N	1	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Taylor Hall	Date/Time: 6-12-19 1600	Company: ACL	Received by:	Date/Time: 6/12/19 16:00	Company: ETst
Relinquished by:	Date/Time: 6/12/19 16:40	Company: ETst	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 06/13/19 0725	Company: Sav

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.3/4.4/4.9/2.1/3.1°C

8/7/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins | Environment Testing TestAmerica

Client Information	Sampler: O. FUQUEA / J. Berglund	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-105107-41132.6
Client Contact: Mr. Charles Adams	Phone: (770) 594-5498	E-Mail: willie.hallmon@testamericainc.com		Page: Page 6 of 6
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			Preservation Codes:
City: Roswell	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			Other:
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	8270D - Appendix II SVOCs	8151A - Appendix II Chlorinated Herbicides by GC	4500_CN_E - Local Method	SM4500_S2_F - Local Method	Appendix II Metals + Hg	8011 - EDB, DBCP & 1,2,3-TCP	8081B_8082A - OC Pesticides and PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	N	N	B	CB	D	A	N		
GWC-18	6-11-19	1315	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
PH1-GWC-3	6-10-19	1340	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
PH1-GWC-3A	6-10-19	1345	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
PH1-GWC-3	6-11-19	1035	G	Water	N						✓			1	
PH1-GWC-3A	6-11-19	1040	G	Water	N						✓			1	
GWC-19R	6-11-19	1400	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
GWC-14A	6-11-19	1410	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
GWC-24	6-11-19	1455	G	Water	N	✓	✓	✓	✓	✓		✓	✓	15	
GWC-14A	6-12-19	0900	G	Water	N						✓			1	
GWC-19R	6-12-19	0920	G	Water	N						✓			1	
GWC-18	6-12-19	0930	G	Water	N						✓			1	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Taylor Gold	6/12/19 1600	ATL		6/12/19 1620	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/12/19 1610	ETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				06/13/19 0725	Sav.

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5-3/4.4/4.9/2.1/3.1°C

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins | Environment Testing TestAmerica

Client Information	Sampler: O. FUQUA	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-105107-41132.6
Client Contact: Mr. Charles Adams	Phone: (770) 594-5998	E-Mail: willie.hallmon@testamericainc.com		Page: Page 6 of 6
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		8260B - Appendix II VOCs	8270D - Appendix II SVOCs	8151A - Appendix II Chlorinated Herbicides by GC	4500_CN_E - Local Method	SM4500_S2_F - Local Method	Appendix II Metals + Hg	8011 - EDB, DBCP & 1,2,3-TCP	8081B_8082A - OC Pesticides and PCBs		GW20 APP I Metals				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	B	CB	D	A	N								
PH1-GWA-1	6-10-19	1330	G	Water	N	N	3	2	2	1	2		3	2							15	
PH1-GWC-2	6-10-19	1530	G	Water	N	N	3	2	2	1	2	1	3	2							16	
PH1-GWA-1	6-11-19	0430	G	Water	N	N						1									1	
AMW-1	6-11-19	1240	G	Water	N	N	3	2	2	1	2	1	3	2							16	Label ID "GWC-15"
PH1-GWA-2	6-11-19	1415	G	Water	N	N	3	2	2	1	2		3	2							15	
GWA-3	6-12-19	0855	G	Water	N	N										1					1	
GWA-2	6-12-19	0910	G	Water	N	N										1					1	
PH1-GWB-1	6-12-19	0915	G	Water	N	N										1					1	
PH1-GWA-2	6-12-19	0920	G	Water	N	N						1									1	
PH1-GWA-4	6-12-19	0930	G	Water	N	N										1					1	
				Water																		

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Taylor Hall	6-12-19/1600	ACC		6/12/19 1600	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/12/19 1610	ETA		06-13-19 0725	Sav.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.3/4.4/4.9/2.1/3.1°C

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins | Environment Testing TestAmerica

Client Information	Sampler: J. BENISFORD	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-105107-41132.6
Client Contact: Mr. Charles Adams	Phone: (770) 594-5442	E-Mail: willie.hallmon@testamericainc.com		Page: Page 6 of 6
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			Preservation Codes:
City: Roswell	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			Other:
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co.- Hightower Rd. LF GW	Project #: 68015371			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B - Appendix II VOCs	8270D - Appendix II SVOCs	8151A - Appendix II Chlorinated Herbicides by GC	4500_CN_E - Local Method	SM4500_S2_F - Local Method	Appendix II Metals + Hg	8011 - EDB, DBCP & 1,2,3-TCP	8081B_8082A - OC Pesticides and PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	A	N	N	B	CB	D	A	N	X	
GW-C-24	6/12/19	0945	G	Water	N						J			1	
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Taylor Gold	6-12-19/1600	ACC		6/12/19 1600	ETA
	6/12/19 1610	ETA			
	Date/Time:	Company	Received by:	Date/Time: 06-13-19 0725	Company SAV

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.3 / 4.4 / 4.9 / 2.1 / 5.1 °C

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins | Environment Testing TestAmerica

Client Information	Sampler: A. Schittker/H. Auld	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-106629-41677.1
Client Contact: Mr. Charles Adams	Phone: 770-594-5998	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 2
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@aticc.net	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - (MOD) Appendix II SVOCs	4500_CN_E - Local Method	# Containers	Special Ir
GWC-8A	7-24-19	1730	G	Water	N	N	✓		2	
GWC-8R		1750	G	Water	N	N	✓		2	
GWC-14R		1530	G	Water	N	N	✓		2	
PH1-GWA-1		1500	G	Water	N	N		✓	1	
PH1-GWA-2		1420	G	Water	N	N		✓	1	
PH1-GWC-2		1640	G	Water	N	N		✓	1	
PH1-GWC-3		1300	G	Water	N	N		✓	1	
PH1-GWC-3A		1230	G	Water	N	N		✓	1	
GWC-14A		1520	G	Water	N	N		✓	1	
GWC-18		1540	G	Water	N	N		✓	1	
GWC-19R		1625	G	Water	N	N		✓	1	

680-172164 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/25/19 14:42	ACC		14:42	
2		7/25/19 18:10	ACC			
3					07-26-19	0655

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.0 (CF) 2.8°

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

681-Atlanta

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: H. Auld	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-106629-41677.2
Client Contact: Mr. Charles Adams	Phone: 770-594-5998	E-Mail: willie.hallmon@testamericainc.com		Page: Page 2 of 2
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			Preservation Codes:
City: Roswell	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			Other:
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8270D - (MOD) Appendix II SVOCs	4500_CN_E - Local Method												Special Instructions/Note:
GWC-24	7-24-19	1335	G	Water	N	N	✓										1	
AMW-1	7-24-19	1355	G	Water	N	N	✓										1	
																		Loc: 680 172164

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/25/19 14:47	ACC		14:47	EDK
2	7/25/19	16:10	EDK			
3					07.26.19	0655

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 (CF) 2.8°

Ver: 01/16/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-569089.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; Federal - US Fish & Wildlife; Federal ...		Job #: 680-170257-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/1/2019			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3520C_LVI (MOD) Appendix II SVOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GWC-18 (680-170257-29)	6/11/19	13:15 Eastern		Water			X	2	
PH1-GWC-3 (680-170257-30)	6/10/19	13:40 Eastern		Water			X	2	
PH1-GWC-3A (680-170257-31)	6/10/19	13:45 Eastern		Water			X	2	
GWC-19R (680-170257-34)	6/11/19	14:00 Eastern		Water			X	2	
GWC-14A (680-170257-35)	6/11/19	11:40 Eastern		Water			X	2	
GWC-24 (680-170257-36)	6/11/19	14:55 Eastern		Water			X	2	
PH1-GWA-1 (680-170257-40)	6/10/19	13:30 Eastern		Water			X	2	
PH1-GWC-2 (680-170257-41)	6/10/19	15:30 Eastern		Water			X	2	
AMW-1 (GWC-15) (680-170257-43)	6/11/19	12:40 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6-13-19 1509		[signature] Hallmon	6-15-19 904	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3°C IR7

Ver: 01/16/2019

8/7/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-569401.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; Federal - US Fish & Wildlife; Federal ...		Job #: 680-170257-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/3/2019			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3520C_LVI (MOD) Appendix II SVOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GWC-14R (680-170409-35)	6/12/19	11:30 Eastern		Water			X	2	
GWC-8A (680-170409-37)	6/12/19	12:55 Eastern		Water			X	2	
GWC-8R (680-170409-38)	6/12/19	13:15 Eastern		Water			X	2	
AMW-2 (680-170409-44)	6/13/19	11:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6-18-19 1425	JaSAV	Megan Hamilton	6-19-19 907	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3°C IR8

Ver: 01/16/2019

8/7/2019

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-574532.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: willie.hallmon@testamericainc.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; Federal - US Fish & Wildlife; Federal ...		Job #: 680-170257-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 7/31/2019			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3520C_LVI (MOD) Appendix II SVOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
GWC-8A (680-172164-1)	7/24/19	17:30 Eastern		Water			X	2	
GWC-8R (680-172164-2)	7/24/19	17:50 Eastern		Water			X	2	
GWC-14R (680-172164-3)	7/24/19	15:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7-29-19 1108				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/30/19 8:39	Company TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4C IR8

Ver: 01/16/2019

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 680-170256-1
Client Project/Site: Forsyth County - Hightower Road Landfill
Revision: 1

For:
Atlantic Coast Consulting, Inc.
1150 Northmeadow Parkway
Suite 100
Roswell, Georgia 30075

Attn: Mr. Charles Adams

Authorized for release by:
7/3/2019 4:24:26 PM

Willie Hallmon, Project Manager I
(813)885-7427
willie.hallmon@testamericainc.com

Definitions/Glossary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Qualifiers

GC/MS VOA

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

General Chemistry

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

Glossary

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

Job ID: 680-170256-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-170256-1

Comments
No additional comments.

Receipt
The samples were received on 6/13/2019 7:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.8° C.

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

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

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

General Chemistry
Chemical Oxygen Demand recovered outside of control limits for the MS of sample SWA-2MS (680-170256-2) in analytical batch 680-576760.

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

Detection Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWA-1 — Lab Sample ID: 680-170256-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.0		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.031		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	1.0		1.0		mg/L	1		5310 B-2011	Total/NA

Client Sample ID: SWA-2 — Lab Sample ID: 680-170256-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.018		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	1.1		1.0		mg/L	1		5310 B-2011	Total/NA

Client Sample ID: SWC-1 — Lab Sample ID: 680-170256-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.3		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.015		0.010		mg/L	1		6020A	Total Recoverable

Client Sample ID: SWC-2 — Lab Sample ID: 680-170256-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.016		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	1.1		1.0		mg/L	1		5310 B-2011	Total/NA

Client Sample ID: SWC-3 — Lab Sample ID: 680-170256-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.0		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.019		0.010		mg/L	1		6020A	Total Recoverable

Client Sample ID: SWC-4 — Lab Sample ID: 680-170256-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.016		0.010		mg/L	1		6020A	Total Recoverable

Client Sample ID: SWC-5 — Lab Sample ID: 680-170256-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.061		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	3.4		1.0		mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	10		10		mg/L	1		SM 5220D	Total/NA

Client Sample ID: SWC-6 — Lab Sample ID: 680-170256-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		0.50		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWC-6 (Continued)

Lab Sample ID: 680-170256-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Barium	0.025		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	1.7		1.0		mg/L	1		5310 B-2011	Total/NA

Client Sample ID: SWC-7

Lab Sample ID: 680-170256-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.8		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.017		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	1.1		1.0		mg/L	1		5310 B-2011	Total/NA

Client Sample ID: SWC-8

Lab Sample ID: 680-170256-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		0.50		mg/L	1		300.0	Total/NA
Total Barium	0.028		0.010		mg/L	1		6020A	Total Recoverable
Total Organic Carbon	10		1.0		mg/L	1		5310 B-2011	Total/NA
Chemical Oxygen Demand	32		10		mg/L	1		SM 5220D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWA-1
Lab Sample ID: 680-170256-1
Date Collected: 06/12/19 10:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.0**		0.50		mg/L			06/18/19 23:51	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Barium	**0.031**		0.010		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:07	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.0**		1.0		mg/L			07/01/19 12:30	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:11	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWA-2
Lab Sample ID: 680-170256-2
Date Collected: 06/12/19 10:40
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.8**		0.50		mg/L			06/19/19 00:04	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Barium	**0.018**		0.010		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:11	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.1**		1.0		mg/L			07/01/19 13:18	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:12	1
Chemical Oxygen Demand	ND	F1	10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-1
Lab Sample ID: 680-170256-3
Date Collected: 06/12/19 13:00
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.3**		0.50		mg/L			06/19/19 00:17	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Barium	**0.015**		0.010		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:03	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/01/19 13:33	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:13	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-2
Lab Sample ID: 680-170256-4
Date Collected: 06/12/19 11:55
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.8**		0.50		mg/L			06/19/19 00:29	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Barium	**0.016**		0.010		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:45	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 19:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.1**		1.0		mg/L			07/01/19 13:49	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:15	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-3
Lab Sample ID: 680-170256-5
Date Collected: 06/12/19 12:10
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.0**		0.50		mg/L			06/28/19 20:16	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Barium	**0.019**		0.010		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:29	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/01/19 14:04	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:16	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWC-4
Date Collected: 06/12/19 11:25
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 14:43	1
Acrylonitrile	ND		50		ug/L			06/22/19 14:43	1
Benzene	ND		2.0		ug/L			06/22/19 14:43	1
Bromochloromethane	ND		10		ug/L			06/22/19 14:43	1
Bromodichloromethane	ND		10		ug/L			06/22/19 14:43	1
Bromoform	ND		10		ug/L			06/22/19 14:43	1
Bromomethane	ND		10		ug/L			06/22/19 14:43	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 14:43	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 14:43	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 14:43	1
Chlorobenzene	ND		10		ug/L			06/22/19 14:43	1
Chloroethane	ND		2.0		ug/L			06/22/19 14:43	1
Chloroform	ND		2.0		ug/L			06/22/19 14:43	1
Chloromethane	ND		10		ug/L			06/22/19 14:43	1
Dibromochloromethane	ND		10		ug/L			06/22/19 14:43	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 14:43	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 14:43	1
Dibromomethane	ND		10		ug/L			06/22/19 14:43	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 14:43	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 14:43	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 14:43	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 14:43	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 14:43	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:43	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:43	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 14:43	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 14:43	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:43	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:43	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 14:43	1
2-Hexanone	ND		50		ug/L			06/22/19 14:43	1
Iodomethane	ND		100		ug/L			06/22/19 14:43	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 14:43	1
Styrene	ND		10		ug/L			06/22/19 14:43	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:43	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:43	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 14:43	1
Toluene	ND		2.0		ug/L			06/22/19 14:43	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 14:43	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 14:43	1
Trichloroethene	ND		2.0		ug/L			06/22/19 14:43	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 14:43	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 14:43	1
Vinyl acetate	ND		100		ug/L			06/22/19 14:43	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 14:43	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/22/19 14:43*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWC-4

Date Collected: 06/12/19 11:25
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-6

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*06/22/19 14:43*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 122*		*06/22/19 14:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/22/19 14:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.1**		0.50		mg/L			06/28/19 20:54	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Barium	**0.016**		0.010		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:33	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/01/19 14:23	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:17	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-5
Lab Sample ID: 680-170256-7
Date Collected: 06/12/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		0.50		mg/L			06/28/19 21:06	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Barium	**0.061**		0.010		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:37	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.4**		1.0		mg/L			07/01/19 14:39	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:18	1
Chemical Oxygen Demand	**10**		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWC-6
Date Collected: 06/12/19 14:10
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 15:07	1
Acrylonitrile	ND		50		ug/L			06/22/19 15:07	1
Benzene	ND		2.0		ug/L			06/22/19 15:07	1
Bromochloromethane	ND		10		ug/L			06/22/19 15:07	1
Bromodichloromethane	ND		10		ug/L			06/22/19 15:07	1
Bromoform	ND		10		ug/L			06/22/19 15:07	1
Bromomethane	ND		10		ug/L			06/22/19 15:07	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 15:07	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 15:07	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 15:07	1
Chlorobenzene	ND		10		ug/L			06/22/19 15:07	1
Chloroethane	ND		2.0		ug/L			06/22/19 15:07	1
Chloroform	ND		2.0		ug/L			06/22/19 15:07	1
Chloromethane	ND		10		ug/L			06/22/19 15:07	1
Dibromochloromethane	ND		10		ug/L			06/22/19 15:07	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 15:07	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 15:07	1
Dibromomethane	ND		10		ug/L			06/22/19 15:07	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 15:07	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 15:07	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 15:07	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 15:07	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 15:07	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:07	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 15:07	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 15:07	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 15:07	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:07	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 15:07	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 15:07	1
2-Hexanone	ND		50		ug/L			06/22/19 15:07	1
Iodomethane	ND		100		ug/L			06/22/19 15:07	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 15:07	1
Styrene	ND		10		ug/L			06/22/19 15:07	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:07	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 15:07	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 15:07	1
Toluene	ND		2.0		ug/L			06/22/19 15:07	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 15:07	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 15:07	1
Trichloroethene	ND		2.0		ug/L			06/22/19 15:07	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 15:07	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 15:07	1
Vinyl acetate	ND		100		ug/L			06/22/19 15:07	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 15:07	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/22/19 15:07*	*1*

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

Client Sample ID: SWC-6

Date Collected: 06/12/19 14:10
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-8

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*06/22/19 15:07*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*06/22/19 15:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/22/19 15:07*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		0.50		mg/L			06/28/19 21:19	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Barium	**0.025**		0.010		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:44	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.7**		1.0		mg/L			07/01/19 14:54	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:19	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-7
Lab Sample ID: 680-170256-9
Date Collected: 06/12/19 12:45
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.8**		0.50		mg/L			06/28/19 21:32	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Barium	**0.017**		0.010		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:25	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.1**		1.0		mg/L			07/01/19 15:45	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:20	1
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-8
Lab Sample ID: 680-170256-10
Date Collected: 06/12/19 13:20
Matrix: Water
Date Received: 06/13/19 07:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.6**		0.50		mg/L			06/28/19 21:44	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Barium	**0.028**		0.010		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 20:22	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 20:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**10**		1.0		mg/L			07/01/19 16:01	1
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/26/19 14:21	1
Chemical Oxygen Demand	**32**		10		mg/L			07/03/19 08:15	1

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

Lab Sample ID: MB 680-575341/10
Matrix: Water
Analysis Batch: 575341

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			06/22/19 14:20	1
Acrylonitrile	ND		50		ug/L			06/22/19 14:20	1
Benzene	ND		2.0		ug/L			06/22/19 14:20	1
Bromochloromethane	ND		10		ug/L			06/22/19 14:20	1
Bromodichloromethane	ND		10		ug/L			06/22/19 14:20	1
Bromoform	ND		10		ug/L			06/22/19 14:20	1
Bromomethane	ND		10		ug/L			06/22/19 14:20	1
2-Butanone (MEK)	ND		100		ug/L			06/22/19 14:20	1
Carbon disulfide	ND		5.0		ug/L			06/22/19 14:20	1
Carbon tetrachloride	ND		2.0		ug/L			06/22/19 14:20	1
Chlorobenzene	ND		10		ug/L			06/22/19 14:20	1
Chloroethane	ND		2.0		ug/L			06/22/19 14:20	1
Chloroform	ND		2.0		ug/L			06/22/19 14:20	1
Chloromethane	ND		10		ug/L			06/22/19 14:20	1
Dibromochloromethane	ND		10		ug/L			06/22/19 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			06/22/19 14:20	1
1,2-Dibromoethane	ND		1.0		ug/L			06/22/19 14:20	1
Dibromomethane	ND		10		ug/L			06/22/19 14:20	1
1,2-Dichlorobenzene	ND		10		ug/L			06/22/19 14:20	1
1,4-Dichlorobenzene	ND		10		ug/L			06/22/19 14:20	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			06/22/19 14:20	1
1,1-Dichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
1,1-Dichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
1,2-Dichloropropane	ND		2.0		ug/L			06/22/19 14:20	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:20	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			06/22/19 14:20	1
Ethylbenzene	ND		2.0		ug/L			06/22/19 14:20	1
2-Hexanone	ND		50		ug/L			06/22/19 14:20	1
Iodomethane	ND		100		ug/L			06/22/19 14:20	1
Methylene Chloride	ND		5.0		ug/L			06/22/19 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			06/22/19 14:20	1
Styrene	ND		10		ug/L			06/22/19 14:20	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/22/19 14:20	1
Tetrachloroethene	ND		2.0		ug/L			06/22/19 14:20	1
Toluene	ND		2.0		ug/L			06/22/19 14:20	1
1,1,1-Trichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
1,1,2-Trichloroethane	ND		2.0		ug/L			06/22/19 14:20	1
Trichloroethene	ND		2.0		ug/L			06/22/19 14:20	1
Trichlorofluoromethane	ND		10		ug/L			06/22/19 14:20	1
1,2,3-Trichloropropane	ND		10		ug/L			06/22/19 14:20	1
Vinyl acetate	ND		100		ug/L			06/22/19 14:20	1
Vinyl chloride	ND		2.0		ug/L			06/22/19 14:20	1
Xylenes, Total	ND		5.0		ug/L			06/22/19 14:20	1

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

Lab Sample ID: MB 680-575341/10
Matrix: Water
Analysis Batch: 575341

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/22/19 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*06/22/19 14:20*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*06/22/19 14:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/19 14:20*	*1*

Lab Sample ID: LCS 680-575341/4
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	262		ug/L		105	70 - 135
Acrylonitrile	500	470		ug/L		94	80 - 123
Benzene	50.0	47.7		ug/L		95	80 - 120
Bromochloromethane	50.0	48.8		ug/L		98	80 - 120
Bromodichloromethane	50.0	47.0		ug/L		94	80 - 120
Bromoform	50.0	51.0		ug/L		102	74 - 126
Bromomethane	50.0	52.8		ug/L		106	62 - 130
2-Butanone (MEK)	250	263		ug/L		105	80 - 131
Carbon disulfide	50.0	50.5		ug/L		101	80 - 120
Carbon tetrachloride	50.0	47.5		ug/L		95	76 - 123
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Chloroethane	50.0	48.6		ug/L		97	66 - 135
Chloroform	50.0	47.0		ug/L		94	80 - 120
Chloromethane	50.0	51.7		ug/L		103	69 - 131
Dibromochloromethane	50.0	49.9		ug/L		100	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	71 - 134
1,2-Dibromoethane	50.0	48.6		ug/L		97	80 - 120
Dibromomethane	50.0	47.8		ug/L		96	80 - 120
1,2-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.0	J	ug/L		104	68 - 125
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	46.1		ug/L		92	80 - 120
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	80 - 120
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	50.3		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	48.8		ug/L		98	80 - 120
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
2-Hexanone	250	234		ug/L		94	74 - 127
Iodomethane	50.0	52.3	J	ug/L		105	52 - 142
Methylene Chloride	50.0	46.8		ug/L		94	80 - 120
4-Methyl-2-pentanone (MIBK)	250	237		ug/L		95	76 - 124
Styrene	50.0	49.1		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	80 - 120
Tetrachloroethene	50.0	52.0		ug/L		104	80 - 121

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

Lab Sample ID: LCS 680-575341/4
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	48.3		ug/L		97	80 - 113
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	80 - 120
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	80 - 120
Trichloroethene	50.0	48.2		ug/L		96	80 - 120
Trichlorofluoromethane	50.0	46.5		ug/L		93	60 - 141
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	80 - 123
Vinyl acetate	100	107		ug/L		107	67 - 135
Vinyl chloride	50.0	51.1		ug/L		102	71 - 128
Xylenes, Total	100	97.4		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*
Dibromofluoromethane (Surr)	*90*		*80 - 122*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 680-575341/5
Matrix: Water
Analysis Batch: 575341

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	290		ug/L		116	70 - 135	10	30
Acrylonitrile	500	515		ug/L		103	80 - 123	9	20
Benzene	50.0	51.5		ug/L		103	80 - 120	8	20
Bromochloromethane	50.0	54.9		ug/L		110	80 - 120	12	20
Bromodichloromethane	50.0	52.6		ug/L		105	80 - 120	11	20
Bromoform	50.0	53.3		ug/L		107	74 - 126	4	20
Bromomethane	50.0	54.8		ug/L		110	62 - 130	4	20
2-Butanone (MEK)	250	290		ug/L		116	80 - 131	10	20
Carbon disulfide	50.0	51.5		ug/L		103	80 - 120	2	20
Carbon tetrachloride	50.0	48.6		ug/L		97	76 - 123	2	20
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120	3	20
Chloroethane	50.0	50.7		ug/L		101	66 - 135	4	20
Chloroform	50.0	50.8		ug/L		102	80 - 120	8	20
Chloromethane	50.0	54.4		ug/L		109	69 - 131	5	30
Dibromochloromethane	50.0	53.8		ug/L		108	80 - 121	7	20
1,2-Dibromo-3-Chloropropane	50.0	51.7		ug/L		103	71 - 134	1	20
1,2-Dibromoethane	50.0	54.1		ug/L		108	80 - 120	11	20
Dibromomethane	50.0	52.6		ug/L		105	80 - 120	10	20
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120	3	20
trans-1,4-Dichloro-2-butene	50.0	53.5	J	ug/L		107	68 - 125	3	30
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	7	20
1,2-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	10	50
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	80 - 120	10	20
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120	5	20
1,1-Dichloroethene	50.0	50.9		ug/L		102	76 - 120	1	20
1,2-Dichloropropane	50.0	54.5		ug/L		109	80 - 120	11	20

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

Lab Sample ID: LCSD 680-575341/5
Matrix: Water
Analysis Batch: 575341

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	80 - 120	11	20
trans-1,3-Dichloropropene			50.0	54.0		ug/L		108	80 - 120	9	30
Ethylbenzene			50.0	50.6		ug/L		101	80 - 120	1	20
2-Hexanone			250	261		ug/L		104	74 - 127	11	20
Iodomethane			50.0	56.6	J	ug/L		113	52 - 142	8	30
Methylene Chloride			50.0	51.6		ug/L		103	80 - 120	10	20
4-Methyl-2-pentanone (MIBK)			250	259		ug/L		103	76 - 124	9	20
Styrene			50.0	51.4		ug/L		103	80 - 120	5	20
1,1,1,2-Tetrachloroethane			50.0	52.1		ug/L		104	80 - 121	2	20
1,1,2,2-Tetrachloroethane			50.0	51.5		ug/L		103	80 - 120	2	20
Tetrachloroethene			50.0	52.1		ug/L		104	80 - 121	0	20
Toluene			50.0	51.7		ug/L		103	80 - 113	7	20
1,1,1-Trichloroethane			50.0	49.1		ug/L		98	80 - 120	1	20
1,1,2-Trichloroethane			50.0	54.9		ug/L		110	80 - 120	10	20
Trichloroethene			50.0	51.5		ug/L		103	80 - 120	7	20
Trichlorofluoromethane			50.0	46.5		ug/L		93	60 - 141	0	20
1,2,3-Trichloropropane			50.0	52.3		ug/L		105	80 - 123	2	30
Vinyl acetate			100	116		ug/L		116	67 - 135	8	20
Vinyl chloride			50.0	52.1		ug/L		104	71 - 128	2	20
Xylenes, Total			100	100		ug/L		100	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-574761/39
Matrix: Water
Analysis Batch: 574761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			06/18/19 21:32	1

Lab Sample ID: LCS 680-574761/40
Matrix: Water
Analysis Batch: 574761

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-574761/41
Matrix: Water
Analysis Batch: 574761

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			10.0	10.6		mg/L		106	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-576245/43
Matrix: Water
Analysis Batch: 576245

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			06/28/19 19:38	1

Lab Sample ID: LCS 680-576245/44
Matrix: Water
Analysis Batch: 576245

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.82		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-576245/45
Matrix: Water
Analysis Batch: 576245

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.81		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-170256-5 MS
Matrix: Water
Analysis Batch: 576245

Client Sample ID: SWC-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.0		10.0	12.1		mg/L		101	80 - 120

Lab Sample ID: 680-170256-5 MSD
Matrix: Water
Analysis Batch: 576245

Client Sample ID: SWC-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.0		10.0	12.1		mg/L		101	80 - 120	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-574200/1-A
Matrix: Water
Analysis Batch: 575022

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 574200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Arsenic	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Barium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Cadmium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Chromium	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Lead	ND		0.025		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Nickel	ND		0.040		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Selenium	ND		0.040		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Silver	ND		0.010		mg/L		06/13/19 16:02	06/19/19 19:38	1
Total Zinc	ND		0.020		mg/L		06/13/19 16:02	06/19/19 19:38	1

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

Lab Sample ID: LCS 680-574200/2-A
Matrix: Water
Analysis Batch: 575022

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 574200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Arsenic	0.100	0.103		mg/L		103	80 - 120
Total Barium	0.100	0.109		mg/L		109	80 - 120
Total Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Total Chromium	0.100	0.107		mg/L		107	80 - 120
Total Lead	0.500	0.512		mg/L		102	80 - 120
Total Nickel	0.100	0.105		mg/L		105	80 - 120
Total Selenium	0.100	0.103		mg/L		103	80 - 120
Total Silver	0.0500	0.0560		mg/L		112	80 - 120
Total Zinc	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: 680-170256-4 MS
Matrix: Water
Analysis Batch: 575022

Client Sample ID: SWC-2
Prep Type: Total Recoverable
Prep Batch: 574200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Arsenic	ND		0.100	0.101		mg/L		101	75 - 125
Total Barium	0.016		0.100	0.120		mg/L		104	75 - 125
Total Cadmium	ND		0.0500	0.0497		mg/L		99	75 - 125
Total Chromium	ND		0.100	0.103		mg/L		103	75 - 125
Total Lead	ND		0.500	0.494		mg/L		99	75 - 125
Total Nickel	ND		0.100	0.102		mg/L		102	75 - 125
Total Selenium	ND		0.100	0.0994		mg/L		99	75 - 125
Total Silver	ND		0.0500	0.0535		mg/L		107	75 - 125
Total Zinc	ND		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 680-170256-4 MSD
Matrix: Water
Analysis Batch: 575022

Client Sample ID: SWC-2
Prep Type: Total Recoverable
Prep Batch: 574200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Arsenic	ND		0.100	0.0987		mg/L		99	75 - 125	2	20
Total Barium	0.016		0.100	0.121		mg/L		105	75 - 125	1	20
Total Cadmium	ND		0.0500	0.0499		mg/L		100	75 - 125	0	20
Total Chromium	ND		0.100	0.102		mg/L		102	75 - 125	1	20
Total Lead	ND		0.500	0.492		mg/L		98	75 - 125	0	20
Total Nickel	ND		0.100	0.101		mg/L		101	75 - 125	1	20
Total Selenium	ND		0.100	0.0977		mg/L		98	75 - 125	2	20
Total Silver	ND		0.0500	0.0530		mg/L		106	75 - 125	1	20
Total Zinc	ND		0.100	0.102		mg/L		102	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-574878/13-A
Matrix: Water
Analysis Batch: 575334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Mercury	ND		0.00050		mg/L		06/19/19 12:35	06/21/19 13:15	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-574878/14-A
Matrix: Water
Analysis Batch: 575334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Mercury	0.00250	0.00244		mg/L		97	80 - 120

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-576575/3
Matrix: Water
Analysis Batch: 576575

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/01/19 11:25	1

Lab Sample ID: LCS 680-576575/4
Matrix: Water
Analysis Batch: 576575

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.2		mg/L		96	80 - 120

Lab Sample ID: LCSD 680-576575/5
Matrix: Water
Analysis Batch: 576575

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.3		mg/L		96	80 - 120	1	25

Lab Sample ID: 680-170256-1 MS
Matrix: Water
Analysis Batch: 576575

Client Sample ID: SWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.0		20.0	20.2		mg/L		96	80 - 120

Lab Sample ID: 680-170256-1 MSD
Matrix: Water
Analysis Batch: 576575

Client Sample ID: SWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.0		20.0	20.4		mg/L		97	80 - 120	1	25

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 680-575593/1-A
Matrix: Water
Analysis Batch: 576305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.020		mg/L		06/25/19 10:37	06/28/19 16:58	1

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: LCS 680-575593/2-A
Matrix: Water
Analysis Batch: 575878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575593

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Cyanide			0.0500	0.0491		mg/L		98	90 - 110		

Method: SM 5220D - COD

Lab Sample ID: MB 680-576760/3
Matrix: Water
Analysis Batch: 576760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L			07/03/19 08:15	1

Lab Sample ID: LCS 680-576760/4
Matrix: Water
Analysis Batch: 576760

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			50.0	46.3		mg/L		93	90 - 110		

Lab Sample ID: 680-170256-1 MS
Matrix: Water
Analysis Batch: 576760

Client Sample ID: SWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		50.0	52.1		mg/L		93	90 - 110		

Lab Sample ID: 680-170256-1 MSD
Matrix: Water
Analysis Batch: 576760

Client Sample ID: SWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	51.8		mg/L		92	90 - 110	1	30

Lab Sample ID: 680-170256-2 MS
Matrix: Water
Analysis Batch: 576760

Client Sample ID: SWA-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	F1	50.0	50.2	F1	mg/L		88	90 - 110		

Lab Sample ID: 680-170256-2 MSD
Matrix: Water
Analysis Batch: 576760

Client Sample ID: SWA-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND	F1	50.0	54.1		mg/L		96	90 - 110	8	30

QC Association Summary

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-170256-1

GC/MS VOA

Analysis Batch: 575341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-6	SWC-4	Total/NA	Water	8260B	
680-170256-8	SWC-6	Total/NA	Water	8260B	
MB 680-575341/10	Method Blank	Total/NA	Water	8260B	
LCS 680-575341/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-575341/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 574761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	300.0	
680-170256-2	SWA-2	Total/NA	Water	300.0	
680-170256-3	SWC-1	Total/NA	Water	300.0	
680-170256-4	SWC-2	Total/NA	Water	300.0	
MB 680-574761/39	Method Blank	Total/NA	Water	300.0	
LCS 680-574761/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-574761/41	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 576245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-5	SWC-3	Total/NA	Water	300.0	
680-170256-6	SWC-4	Total/NA	Water	300.0	
680-170256-7	SWC-5	Total/NA	Water	300.0	
680-170256-8	SWC-6	Total/NA	Water	300.0	
680-170256-9	SWC-7	Total/NA	Water	300.0	
680-170256-10	SWC-8	Total/NA	Water	300.0	
MB 680-576245/43	Method Blank	Total/NA	Water	300.0	
LCS 680-576245/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-576245/45	Lab Control Sample Dup	Total/NA	Water	300.0	
680-170256-5 MS	SWC-3	Total/NA	Water	300.0	
680-170256-5 MSD	SWC-3	Total/NA	Water	300.0	

Metals

Prep Batch: 574200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total Recoverable	Water	3005A	
680-170256-2	SWA-2	Total Recoverable	Water	3005A	
680-170256-3	SWC-1	Total Recoverable	Water	3005A	
680-170256-4	SWC-2	Total Recoverable	Water	3005A	
680-170256-5	SWC-3	Total Recoverable	Water	3005A	
680-170256-6	SWC-4	Total Recoverable	Water	3005A	
680-170256-7	SWC-5	Total Recoverable	Water	3005A	
680-170256-8	SWC-6	Total Recoverable	Water	3005A	
680-170256-9	SWC-7	Total Recoverable	Water	3005A	
680-170256-10	SWC-8	Total Recoverable	Water	3005A	
MB 680-574200/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-574200/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-170256-4 MS	SWC-2	Total Recoverable	Water	3005A	
680-170256-4 MSD	SWC-2	Total Recoverable	Water	3005A	

Metals

Prep Batch: 574878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	7470A	
680-170256-2	SWA-2	Total/NA	Water	7470A	
680-170256-3	SWC-1	Total/NA	Water	7470A	
680-170256-4	SWC-2	Total/NA	Water	7470A	
680-170256-5	SWC-3	Total/NA	Water	7470A	
680-170256-6	SWC-4	Total/NA	Water	7470A	
680-170256-7	SWC-5	Total/NA	Water	7470A	
680-170256-8	SWC-6	Total/NA	Water	7470A	
680-170256-9	SWC-7	Total/NA	Water	7470A	
680-170256-10	SWC-8	Total/NA	Water	7470A	
MB 680-574878/13-A	Method Blank	Total/NA	Water	7470A	
LCS 680-574878/14-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 575022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total Recoverable	Water	6020A	574200
680-170256-2	SWA-2	Total Recoverable	Water	6020A	574200
680-170256-3	SWC-1	Total Recoverable	Water	6020A	574200
680-170256-4	SWC-2	Total Recoverable	Water	6020A	574200
680-170256-5	SWC-3	Total Recoverable	Water	6020A	574200
680-170256-6	SWC-4	Total Recoverable	Water	6020A	574200
680-170256-7	SWC-5	Total Recoverable	Water	6020A	574200
680-170256-8	SWC-6	Total Recoverable	Water	6020A	574200
680-170256-9	SWC-7	Total Recoverable	Water	6020A	574200
680-170256-10	SWC-8	Total Recoverable	Water	6020A	574200
MB 680-574200/1-A	Method Blank	Total Recoverable	Water	6020A	574200
LCS 680-574200/2-A	Lab Control Sample	Total Recoverable	Water	6020A	574200
680-170256-4 MS	SWC-2	Total Recoverable	Water	6020A	574200
680-170256-4 MSD	SWC-2	Total Recoverable	Water	6020A	574200

Analysis Batch: 575334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	7470A	574878
680-170256-2	SWA-2	Total/NA	Water	7470A	574878
680-170256-3	SWC-1	Total/NA	Water	7470A	574878
680-170256-4	SWC-2	Total/NA	Water	7470A	574878
680-170256-5	SWC-3	Total/NA	Water	7470A	574878
680-170256-6	SWC-4	Total/NA	Water	7470A	574878
680-170256-7	SWC-5	Total/NA	Water	7470A	574878
680-170256-8	SWC-6	Total/NA	Water	7470A	574878
680-170256-9	SWC-7	Total/NA	Water	7470A	574878
680-170256-10	SWC-8	Total/NA	Water	7470A	574878
MB 680-574878/13-A	Method Blank	Total/NA	Water	7470A	574878
LCS 680-574878/14-A	Lab Control Sample	Total/NA	Water	7470A	574878

General Chemistry

Prep Batch: 575593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	Distill/CN	
680-170256-2	SWA-2	Total/NA	Water	Distill/CN	

General Chemistry (Continued)

Prep Batch: 575593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-3	SWC-1	Total/NA	Water	Distill/CN	
680-170256-4	SWC-2	Total/NA	Water	Distill/CN	
680-170256-5	SWC-3	Total/NA	Water	Distill/CN	
680-170256-6	SWC-4	Total/NA	Water	Distill/CN	
680-170256-7	SWC-5	Total/NA	Water	Distill/CN	
680-170256-8	SWC-6	Total/NA	Water	Distill/CN	
680-170256-9	SWC-7	Total/NA	Water	Distill/CN	
680-170256-10	SWC-8	Total/NA	Water	Distill/CN	
MB 680-575593/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-575593/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 575878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	SM 4500 CN E	575593
680-170256-2	SWA-2	Total/NA	Water	SM 4500 CN E	575593
680-170256-3	SWC-1	Total/NA	Water	SM 4500 CN E	575593
680-170256-4	SWC-2	Total/NA	Water	SM 4500 CN E	575593
680-170256-5	SWC-3	Total/NA	Water	SM 4500 CN E	575593
680-170256-6	SWC-4	Total/NA	Water	SM 4500 CN E	575593
680-170256-7	SWC-5	Total/NA	Water	SM 4500 CN E	575593
680-170256-8	SWC-6	Total/NA	Water	SM 4500 CN E	575593
680-170256-9	SWC-7	Total/NA	Water	SM 4500 CN E	575593
680-170256-10	SWC-8	Total/NA	Water	SM 4500 CN E	575593
LCS 680-575593/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	575593

Analysis Batch: 576305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-575593/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	575593

Analysis Batch: 576575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	5310 B-2011	
680-170256-2	SWA-2	Total/NA	Water	5310 B-2011	
680-170256-3	SWC-1	Total/NA	Water	5310 B-2011	
680-170256-4	SWC-2	Total/NA	Water	5310 B-2011	
680-170256-5	SWC-3	Total/NA	Water	5310 B-2011	
680-170256-6	SWC-4	Total/NA	Water	5310 B-2011	
680-170256-7	SWC-5	Total/NA	Water	5310 B-2011	
680-170256-8	SWC-6	Total/NA	Water	5310 B-2011	
680-170256-9	SWC-7	Total/NA	Water	5310 B-2011	
680-170256-10	SWC-8	Total/NA	Water	5310 B-2011	
MB 680-576575/3	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-576575/4	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-576575/5	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
680-170256-1 MS	SWA-1	Total/NA	Water	5310 B-2011	
680-170256-1 MSD	SWA-1	Total/NA	Water	5310 B-2011	

Analysis Batch: 576760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-1	SWA-1	Total/NA	Water	SM 5220D	
680-170256-2	SWA-2	Total/NA	Water	SM 5220D	

General Chemistry (Continued)

Analysis Batch: 576760 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-170256-3	SWC-1	Total/NA	Water	SM 5220D	
680-170256-4	SWC-2	Total/NA	Water	SM 5220D	
680-170256-5	SWC-3	Total/NA	Water	SM 5220D	
680-170256-6	SWC-4	Total/NA	Water	SM 5220D	
680-170256-7	SWC-5	Total/NA	Water	SM 5220D	
680-170256-8	SWC-6	Total/NA	Water	SM 5220D	
680-170256-9	SWC-7	Total/NA	Water	SM 5220D	
680-170256-10	SWC-8	Total/NA	Water	SM 5220D	
MB 680-576760/3	Method Blank	Total/NA	Water	SM 5220D	
LCS 680-576760/4	Lab Control Sample	Total/NA	Water	SM 5220D	
680-170256-1 MS	SWA-1	Total/NA	Water	SM 5220D	
680-170256-1 MSD	SWA-1	Total/NA	Water	SM 5220D	
680-170256-2 MS	SWA-2	Total/NA	Water	SM 5220D	
680-170256-2 MSD	SWA-2	Total/NA	Water	SM 5220D	

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWA-1
Lab Sample ID: 680-170256-1
Date Collected: 06/12/19 10:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	574761	06/18/19 23:51	UI	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:07	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:23	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 12:30	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:11	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWA-2
Lab Sample ID: 680-170256-2
Date Collected: 06/12/19 10:40
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	574761	06/19/19 00:04	UI	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:11	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:28	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 13:18	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:12	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-1
Lab Sample ID: 680-170256-3
Date Collected: 06/12/19 13:00
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	574761	06/19/19 00:17	UI	TAL SAV
	Instrument ID: CICK									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-1 — Lab Sample ID: 680-170256-3

Date Collected: 06/12/19 13:00 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:03	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:32	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 13:33	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:13	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-2 — Lab Sample ID: 680-170256-4

Date Collected: 06/12/19 11:55 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	574761	06/19/19 00:29	UI	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 19:45	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:36	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 13:49	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:15	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-3 — Lab Sample ID: 680-170256-5

Date Collected: 06/12/19 12:10 — **Matrix: Water**
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 20:16	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:29	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-3
Date Collected: 06/12/19 12:10
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:48	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 14:04	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:16	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-4
Date Collected: 06/12/19 11:25
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 14:43	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 20:54	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:33	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:52	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 14:23	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:17	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-5
Date Collected: 06/12/19 13:45
Date Received: 06/13/19 07:25

Lab Sample ID: 680-170256-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 21:06	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:37	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-5
Lab Sample ID: 680-170256-7
Date Collected: 06/12/19 13:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 13:57	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 14:39	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:18	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-6
Lab Sample ID: 680-170256-8
Date Collected: 06/12/19 14:10
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	575341	06/22/19 15:07	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 21:19	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:44	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:01	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 14:54	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:19	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-7
Lab Sample ID: 680-170256-9
Date Collected: 06/12/19 12:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 21:32	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:25	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-7
Lab Sample ID: 680-170256-9
Date Collected: 06/12/19 12:45
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:05	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 15:45	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:20	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

Client Sample ID: SWC-8
Lab Sample ID: 680-170256-10
Date Collected: 06/12/19 13:20
Matrix: Water
Date Received: 06/13/19 07:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	5 mL	5 mL	576245	06/28/19 21:44	SMP	TAL SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			50 mL	250 mL	574200	06/13/19 16:02	AJR	TAL SAV
Total Recoverable	Analysis	6020A		1			575022	06/19/19 20:22	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	7470A			50 mL	50 mL	574878	06/19/19 12:35	BCB	TAL SAV
Total/NA	Analysis	7470A		1			575334	06/21/19 14:09	BCB	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	576575	07/01/19 16:01	CJM	TAL SAV
	Instrument ID: TOC7									
Total/NA	Prep	Distill/CN			50 mL	50 mL	575593	06/25/19 10:37	MDF	TAL SAV
Total/NA	Analysis	SM 4500 CN E		1			575878	06/26/19 14:21	ALG	TAL SAV
	Instrument ID: LACHAT1									
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	576760	07/03/19 08:15	ALG	TAL SAV
	Instrument ID: SPC7									

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

Accreditation/Certification Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	41450	06-30-19 *
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-19
Arkansas DEQ	State Program	6	88-0692	02-01-20
California	State Program	9	2939	06-30-19 *
Colorado	State Program	8	N/A	12-31-19
Connecticut	State Program	1	PH-0161	03-31-21
Florida	NELAP	4	E87052	06-30-20
Georgia	State Program	4	N/A	06-30-19 *
Georgia	State Program	4	803	06-30-19 *
Guam	State Program	9	15-005r	04-17-20
Hawaii	State Program	9	N/A	06-30-19 *
Illinois	NELAP	5	200022	11-30-19
Indiana	State Program	5	N/A	06-30-19 *
Iowa	State Program	7	353	06-30-19 *
Kentucky (DW)	State Program	4	90084	12-31-19
Kentucky (UST)	State Program	4	18	06-30-19 *
Kentucky (WW)	State Program	4	90084	12-31-19
Louisiana	NELAP	6	30690	06-30-20
Louisiana (DW)	NELAP	6	LA160019	12-31-19
Maine	State Program	1	GA00006	09-25-20
Maryland	State Program	3	250	12-31-19
Massachusetts	State Program	1	M-GA006	06-30-20
Mississippi	State Program	4	N/A	06-30-19 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-19 *
New Jersey	NELAP	2	GA769	06-30-20
New Mexico	State Program	6	N/A	06-30-19 *
New York	NELAP	2	10842	04-01-20
North Carolina (DW)	State Program	4	13701	07-31-19 *
North Carolina (WW/SW)	State Program	4	269	12-31-19
Oklahoma	State Program	6	9984	08-31-19
Pennsylvania	NELAP	3	68-00474	06-30-20
Puerto Rico	State Program	2	GA00006	01-01-20
South Carolina	State Program	4	98001	06-30-19 *
Tennessee	State Program	4	TN02961	06-30-20
Texas	NELAP	6	T104704185-19-13	11-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
Virginia	NELAP	3	460161	06-14-20
Washington	State Program	10	C805	06-10-20
West Virginia (DW)	State Program	3	9950C	12-31-19
West Virginia DEP	State Program	3	094	06-30-19 *
Wisconsin	State Program	5	999819810	08-31-19 *
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	TAL SAV
SM 4500 CN E	Cyanide, Total	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-170256-1
Project/Site: Forsyth County - Hightower Road Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-170256-1	SWA-1	Water	06/12/19 10:00	06/13/19 07:25	
680-170256-2	SWA-2	Water	06/12/19 10:40	06/13/19 07:25	
680-170256-3	SWC-1	Water	06/12/19 13:00	06/13/19 07:25	
680-170256-4	SWC-2	Water	06/12/19 11:55	06/13/19 07:25	
680-170256-5	SWC-3	Water	06/12/19 12:10	06/13/19 07:25	
680-170256-6	SWC-4	Water	06/12/19 11:25	06/13/19 07:25	
680-170256-7	SWC-5	Water	06/12/19 13:45	06/13/19 07:25	
680-170256-8	SWC-6	Water	06/12/19 14:10	06/13/19 07:25	
680-170256-9	SWC-7	Water	06/12/19 12:45	06/13/19 07:25	
680-170256-10	SWC-8	Water	06/12/19 13:20	06/13/19 07:25	

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858

Chain of Custody Record

681-Atlanta

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: T. Goble	Lab PM: Willie Hallmon	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Charles Adams	Phone: 770-591-5998	E-Mail: Willie.Hallmon@testamericainc.com		Page: Page 1 of 1
Company: Atlantic Coast Consulting, Inc.				Job #:
Address: 630 Colonial Park Drive Suite 110	Due Date Requested:			
City: Roswell	TAT Requested (days): Standard			
State, Zip: GA, 30075				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth Co Hightower Rd LF - Surface Water	Project #: 68015371			
GA SW Parameters	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - 7470A - GA Table 1 Metals	4500_CN_E - Total Cyanide	5220D - Chemical Oxygen Demand	SM5310_TOC_B - Total Organic Carbon	Air - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	B	S	S	H		
SWA-1	6-12-19	1000	G	W	N	N	1	1	1	1	3		7	GA SW Parameters
SWA-2	6-12-19	1040	G	W	N	N	1	1	1	1	3		7	
SWC-1	6-12-19	1300	G	W	N	N	1	1	1	1	3		7	
SWC-2	6-12-19	1155	G	W	N	N	1	1	1	1	3		7	
SWC-3	6-12-19	1210	G	W	N	N	1	1	1	1	3		7	
SWC-4	6-12-19	1125	G	W	N	N	1	1	1	1	3	3	10	
SWC-5	6-12-19	1345	G	W	N	N	1	1	1	1	3		7	
SWC-6	6-12-19	1410	G	W	N	N	1	1	1	1	3	3	10	
SWC-7	6-12-19	1245	G	W	N	N	1	1	1	1	3		7	
SWC-8	6-12-19	1320	G	W	N	N	1	1	1	1	3		7	

680-170256 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Taylor Goble	Date/Time: 6-12-19/1600	Company: ACC	Received by:	Date/Time: 6/12/19 1640	Company: ESAR
Relinquished by:	Date/Time: 1610	Company: ESAR	Received by:	Date/Time: 6/13/19 725	Company: TA SAV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8 | 2.8, 2.1 | 2.1

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 680-174575-1
Client Project/Site: Forsyth County - Hightower Road Landfill

For:
Atlantic Coast Consulting, Inc.
1150 Northmeadow Parkway
Suite 100
Roswell, Georgia 30076

Attn: Mr. Charles Adams

Authorized for release by:
10/7/2019 1:20:38 PM

Willie Hallmon, Project Manager I
(813)885-7427
willie.hallmon@testamericainc.com

Definitions/Glossary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Atlantic Coast Consulting, Inc. Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-174575-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Job Narrative
680-174575-1

Comments
No additional comments.

Receipt
The samples were received on 9/26/2019 7:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 680-589239 recovered outside control limits for the following analyte(s): Carbon disulfide. Carbon disulfide has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 680-589239 recovered outside control limits for the following analytes: 1,2,3-Trichloropropane, Bromoform, o-Xylene and Styrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-589239 recovered outside control limits for the following analytes: Bromomethane, 1,2-Dichlorobenzene, Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 680-589239 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Trichlorofluoromethane.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-589239.

Method(s) 8260B: Bromomethane exceeded the calibration range of the LCS/LCSD. (LCS 680-589239/3) and (LCSD 680-589239/4)

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

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

Detection Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-4A — Lab Sample ID: 680-174575-1

No Detections.

Client Sample ID: SWC-4B — Lab Sample ID: 680-174575-2

No Detections.

Client Sample ID: SWC-1 — Lab Sample ID: 680-174575-3

No Detections.

Client Sample ID: AMW-1 — Lab Sample ID: 680-174575-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		2.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	37		2.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	77		2.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.2		2.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	58		2.0		ug/L	1		8260B	Total/NA
Trichloroethene	94		2.0		ug/L	1		8260B	Total/NA

Client Sample ID: TB — Lab Sample ID: 680-174575-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-4A
Lab Sample ID: 680-174575-1
Date Collected: 09/25/19 08:40
Matrix: Water
Date Received: 09/26/19 07:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 17:45	1
Acrylonitrile	ND		50		ug/L			10/04/19 17:45	1
Benzene	ND		2.0		ug/L			10/04/19 17:45	1
Bromochloromethane	ND		10		ug/L			10/04/19 17:45	1
Bromodichloromethane	ND		10		ug/L			10/04/19 17:45	1
Bromoform	ND	*	10		ug/L			10/04/19 17:45	1
Bromomethane	ND	*	10		ug/L			10/04/19 17:45	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 17:45	1
Carbon disulfide	ND	*	5.0		ug/L			10/04/19 17:45	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 17:45	1
Chlorobenzene	ND		10		ug/L			10/04/19 17:45	1
Chloroethane	ND	*	2.0		ug/L			10/04/19 17:45	1
Chloroform	ND		2.0		ug/L			10/04/19 17:45	1
Chloromethane	ND		10		ug/L			10/04/19 17:45	1
Dibromochloromethane	ND		10		ug/L			10/04/19 17:45	1
1,2-Dibromo-3-Chloropropane	ND	*	1.1		ug/L			10/04/19 17:45	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 17:45	1
Dibromomethane	ND		10		ug/L			10/04/19 17:45	1
1,2-Dichlorobenzene	ND	*	10		ug/L			10/04/19 17:45	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 17:45	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 17:45	1
1,1-Dichloroethane	ND		2.0		ug/L			10/04/19 17:45	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 17:45	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 17:45	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 17:45	1
1,1-Dichloroethene	ND		2.0		ug/L			10/04/19 17:45	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 17:45	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 17:45	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 17:45	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 17:45	1
2-Hexanone	ND		50		ug/L			10/04/19 17:45	1
Iodomethane	ND		100		ug/L			10/04/19 17:45	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 17:45	1
Styrene	ND	*	10		ug/L			10/04/19 17:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 17:45	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 17:45	1
Tetrachloroethene	ND		2.0		ug/L			10/04/19 17:45	1
Toluene	ND		2.0		ug/L			10/04/19 17:45	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 17:45	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 17:45	1
Trichloroethene	ND		2.0		ug/L			10/04/19 17:45	1
Trichlorofluoromethane	ND	*	10		ug/L			10/04/19 17:45	1
1,2,3-Trichloropropane	ND	*	10		ug/L			10/04/19 17:45	1
Vinyl acetate	ND		100		ug/L			10/04/19 17:45	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 17:45	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/04/19 17:45*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-4A
Lab Sample ID: 680-174575-1
Date Collected: 09/25/19 08:40
Matrix: Water
Date Received: 09/26/19 07:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		10/04/19 17:45	1
Dibromofluoromethane (Surr)	100		80 - 122		10/04/19 17:45	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/04/19 17:45	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-174575-1

Client Sample ID: SWC-4B
Date Collected: 09/25/19 09:10
Date Received: 09/26/19 07:20

Lab Sample ID: 680-174575-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 18:11	1
Acrylonitrile	ND		50		ug/L			10/04/19 18:11	1
Benzene	ND		2.0		ug/L			10/04/19 18:11	1
Bromochloromethane	ND		10		ug/L			10/04/19 18:11	1
Bromodichloromethane	ND		10		ug/L			10/04/19 18:11	1
Bromoform	ND	*	10		ug/L			10/04/19 18:11	1
Bromomethane	ND	*	10		ug/L			10/04/19 18:11	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 18:11	1
Carbon disulfide	ND	*	5.0		ug/L			10/04/19 18:11	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 18:11	1
Chlorobenzene	ND		10		ug/L			10/04/19 18:11	1
Chloroethane	ND	*	2.0		ug/L			10/04/19 18:11	1
Chloroform	ND		2.0		ug/L			10/04/19 18:11	1
Chloromethane	ND		10		ug/L			10/04/19 18:11	1
Dibromochloromethane	ND		10		ug/L			10/04/19 18:11	1
1,2-Dibromo-3-Chloropropane	ND	*	1.1		ug/L			10/04/19 18:11	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 18:11	1
Dibromomethane	ND		10		ug/L			10/04/19 18:11	1
1,2-Dichlorobenzene	ND	*	10		ug/L			10/04/19 18:11	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 18:11	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 18:11	1
1,1-Dichloroethane	ND		2.0		ug/L			10/04/19 18:11	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 18:11	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 18:11	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 18:11	1
1,1-Dichloroethene	ND		2.0		ug/L			10/04/19 18:11	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 18:11	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 18:11	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 18:11	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 18:11	1
2-Hexanone	ND		50		ug/L			10/04/19 18:11	1
Iodomethane	ND		100		ug/L			10/04/19 18:11	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 18:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 18:11	1
Styrene	ND	*	10		ug/L			10/04/19 18:11	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 18:11	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 18:11	1
Tetrachloroethene	ND		2.0		ug/L			10/04/19 18:11	1
Toluene	ND		2.0		ug/L			10/04/19 18:11	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 18:11	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 18:11	1
Trichloroethene	ND		2.0		ug/L			10/04/19 18:11	1
Trichlorofluoromethane	ND	*	10		ug/L			10/04/19 18:11	1
1,2,3-Trichloropropane	ND	*	10		ug/L			10/04/19 18:11	1
Vinyl acetate	ND		100		ug/L			10/04/19 18:11	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 18:11	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/04/19 18:11*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-4B
Lab Sample ID: 680-174575-2
Date Collected: 09/25/19 09:10
Matrix: Water
Date Received: 09/26/19 07:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		73 - 131		10/04/19 18:11	1
Dibromofluoromethane (Surr)	101		80 - 122		10/04/19 18:11	1
4-Bromofluorobenzene (Surr)	84		80 - 120		10/04/19 18:11	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-174575-1

Client Sample ID: SWC-1
Date Collected: 09/25/19 09:45
Date Received: 09/26/19 07:20

Lab Sample ID: 680-174575-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 18:38	1
Acrylonitrile	ND		50		ug/L			10/04/19 18:38	1
Benzene	ND		2.0		ug/L			10/04/19 18:38	1
Bromochloromethane	ND		10		ug/L			10/04/19 18:38	1
Bromodichloromethane	ND		10		ug/L			10/04/19 18:38	1
Bromoform	ND	*	10		ug/L			10/04/19 18:38	1
Bromomethane	ND	*	10		ug/L			10/04/19 18:38	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 18:38	1
Carbon disulfide	ND	*	5.0		ug/L			10/04/19 18:38	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 18:38	1
Chlorobenzene	ND		10		ug/L			10/04/19 18:38	1
Chloroethane	ND	*	2.0		ug/L			10/04/19 18:38	1
Chloroform	ND		2.0		ug/L			10/04/19 18:38	1
Chloromethane	ND		10		ug/L			10/04/19 18:38	1
Dibromochloromethane	ND		10		ug/L			10/04/19 18:38	1
1,2-Dibromo-3-Chloropropane	ND	*	1.1		ug/L			10/04/19 18:38	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 18:38	1
Dibromomethane	ND		10		ug/L			10/04/19 18:38	1
1,2-Dichlorobenzene	ND	*	10		ug/L			10/04/19 18:38	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 18:38	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 18:38	1
1,1-Dichloroethane	ND		2.0		ug/L			10/04/19 18:38	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 18:38	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 18:38	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 18:38	1
1,1-Dichloroethene	ND		2.0		ug/L			10/04/19 18:38	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 18:38	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 18:38	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 18:38	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 18:38	1
2-Hexanone	ND		50		ug/L			10/04/19 18:38	1
Iodomethane	ND		100		ug/L			10/04/19 18:38	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 18:38	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 18:38	1
Styrene	ND	*	10		ug/L			10/04/19 18:38	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 18:38	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 18:38	1
Tetrachloroethene	ND		2.0		ug/L			10/04/19 18:38	1
Toluene	ND		2.0		ug/L			10/04/19 18:38	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 18:38	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 18:38	1
Trichloroethene	ND		2.0		ug/L			10/04/19 18:38	1
Trichlorofluoromethane	ND	*	10		ug/L			10/04/19 18:38	1
1,2,3-Trichloropropane	ND	*	10		ug/L			10/04/19 18:38	1
Vinyl acetate	ND		100		ug/L			10/04/19 18:38	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 18:38	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*80 - 120*		*10/04/19 18:38*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-1
Lab Sample ID: 680-174575-3
Date Collected: 09/25/19 09:45
Matrix: Water
Date Received: 09/26/19 07:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		73 - 131		10/04/19 18:38	1
Dibromofluoromethane (Surr)	102		80 - 122		10/04/19 18:38	1
4-Bromofluorobenzene (Surr)	86		80 - 120		10/04/19 18:38	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-174575-1

Client Sample ID: AMW-1
Date Collected: 09/25/19 11:15
Date Received: 09/26/19 07:20

Lab Sample ID: 680-174575-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 19:03	1
Acrylonitrile	ND		50		ug/L			10/04/19 19:03	1
Benzene	**3.3**		2.0		ug/L			10/04/19 19:03	1
Bromochloromethane	ND		10		ug/L			10/04/19 19:03	1
Bromodichloromethane	ND		10		ug/L			10/04/19 19:03	1
Bromoform	ND	*	10		ug/L			10/04/19 19:03	1
Bromomethane	ND	*	10		ug/L			10/04/19 19:03	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 19:03	1
Carbon disulfide	ND	*	5.0		ug/L			10/04/19 19:03	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 19:03	1
Chlorobenzene	ND		10		ug/L			10/04/19 19:03	1
Chloroethane	ND	*	2.0		ug/L			10/04/19 19:03	1
Chloroform	ND		2.0		ug/L			10/04/19 19:03	1
Chloromethane	ND		10		ug/L			10/04/19 19:03	1
Dibromochloromethane	ND		10		ug/L			10/04/19 19:03	1
1,2-Dibromo-3-Chloropropane	ND	*	1.1		ug/L			10/04/19 19:03	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 19:03	1
Dibromomethane	ND		10		ug/L			10/04/19 19:03	1
1,2-Dichlorobenzene	ND	*	10		ug/L			10/04/19 19:03	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 19:03	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 19:03	1
1,1-Dichloroethane	**37**		2.0		ug/L			10/04/19 19:03	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 19:03	1
cis-1,2-Dichloroethene	**77**		2.0		ug/L			10/04/19 19:03	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 19:03	1
1,1-Dichloroethene	**2.2**		2.0		ug/L			10/04/19 19:03	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 19:03	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 19:03	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 19:03	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 19:03	1
2-Hexanone	ND		50		ug/L			10/04/19 19:03	1
Iodomethane	ND		100		ug/L			10/04/19 19:03	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 19:03	1
Styrene	ND	*	10		ug/L			10/04/19 19:03	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 19:03	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 19:03	1
Tetrachloroethene	**58**		2.0		ug/L			10/04/19 19:03	1
Toluene	ND		2.0		ug/L			10/04/19 19:03	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 19:03	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 19:03	1
Trichloroethene	**94**		2.0		ug/L			10/04/19 19:03	1
Trichlorofluoromethane	ND	*	10		ug/L			10/04/19 19:03	1
1,2,3-Trichloropropane	ND	*	10		ug/L			10/04/19 19:03	1
Vinyl acetate	ND		100		ug/L			10/04/19 19:03	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 19:03	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/04/19 19:03*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: AMW-1
Lab Sample ID: 680-174575-4
Date Collected: 09/25/19 11:15
Matrix: Water
Date Received: 09/26/19 07:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		73 - 131		10/04/19 19:03	1
Dibromofluoromethane (Surr)	97		80 - 122		10/04/19 19:03	1
4-Bromofluorobenzene (Surr)	98		80 - 120		10/04/19 19:03	1

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: TB
Lab Sample ID: 680-174575-5
Date Collected: 09/25/19 00:00
Matrix: Water
Date Received: 09/26/19 07:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 14:39	1
Acrylonitrile	ND		50		ug/L			10/04/19 14:39	1
Benzene	ND		2.0		ug/L			10/04/19 14:39	1
Bromochloromethane	ND		10		ug/L			10/04/19 14:39	1
Bromodichloromethane	ND		10		ug/L			10/04/19 14:39	1
Bromoform	ND	*	10		ug/L			10/04/19 14:39	1
Bromomethane	ND	*	10		ug/L			10/04/19 14:39	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 14:39	1
Carbon disulfide	ND	*	5.0		ug/L			10/04/19 14:39	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 14:39	1
Chlorobenzene	ND		10		ug/L			10/04/19 14:39	1
Chloroethane	ND	*	2.0		ug/L			10/04/19 14:39	1
Chloroform	ND		2.0		ug/L			10/04/19 14:39	1
Chloromethane	ND		10		ug/L			10/04/19 14:39	1
Dibromochloromethane	ND		10		ug/L			10/04/19 14:39	1
1,2-Dibromo-3-Chloropropane	ND	*	1.1		ug/L			10/04/19 14:39	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 14:39	1
Dibromomethane	ND		10		ug/L			10/04/19 14:39	1
1,2-Dichlorobenzene	ND	*	10		ug/L			10/04/19 14:39	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 14:39	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 14:39	1
1,1-Dichloroethane	ND		2.0		ug/L			10/04/19 14:39	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 14:39	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 14:39	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 14:39	1
1,1-Dichloroethene	ND		2.0		ug/L			10/04/19 14:39	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 14:39	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 14:39	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 14:39	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 14:39	1
2-Hexanone	ND		50		ug/L			10/04/19 14:39	1
Iodomethane	ND		100		ug/L			10/04/19 14:39	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 14:39	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 14:39	1
Styrene	ND	*	10		ug/L			10/04/19 14:39	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 14:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 14:39	1
Tetrachloroethene	ND		2.0		ug/L			10/04/19 14:39	1
Toluene	ND		2.0		ug/L			10/04/19 14:39	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 14:39	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 14:39	1
Trichloroethene	ND		2.0		ug/L			10/04/19 14:39	1
Trichlorofluoromethane	ND	*	10		ug/L			10/04/19 14:39	1
1,2,3-Trichloropropane	ND	*	10		ug/L			10/04/19 14:39	1
Vinyl acetate	ND		100		ug/L			10/04/19 14:39	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 14:39	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/04/19 14:39*	*1*

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: TB
Lab Sample ID: 680-174575-5
Date Collected: 09/25/19 00:00
Matrix: Water
Date Received: 09/26/19 07:20

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		73 - 131		10/04/19 14:39	1
Dibromofluoromethane (Surr)	101		80 - 122		10/04/19 14:39	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/04/19 14:39	1

Client: Atlantic Coast Consulting, Inc.
Project/Site: Forsyth County - Hightower Road Landfill

Job ID: 680-174575-1

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

Lab Sample ID: MB 680-589239/9
Matrix: Water
Analysis Batch: 589239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100		ug/L			10/04/19 14:13	1
Acrylonitrile	ND		50		ug/L			10/04/19 14:13	1
Benzene	ND		2.0		ug/L			10/04/19 14:13	1
Bromochloromethane	ND		10		ug/L			10/04/19 14:13	1
Bromodichloromethane	ND		10		ug/L			10/04/19 14:13	1
Bromoform	ND		10		ug/L			10/04/19 14:13	1
Bromomethane	ND		10		ug/L			10/04/19 14:13	1
2-Butanone (MEK)	ND		100		ug/L			10/04/19 14:13	1
Carbon disulfide	ND		5.0		ug/L			10/04/19 14:13	1
Carbon tetrachloride	ND		2.0		ug/L			10/04/19 14:13	1
Chlorobenzene	ND		10		ug/L			10/04/19 14:13	1
Chloroethane	ND		2.0		ug/L			10/04/19 14:13	1
Chloroform	ND		2.0		ug/L			10/04/19 14:13	1
Chloromethane	ND		10		ug/L			10/04/19 14:13	1
Dibromochloromethane	ND		10		ug/L			10/04/19 14:13	1
1,2-Dibromo-3-Chloropropane	ND		1.1		ug/L			10/04/19 14:13	1
1,2-Dibromoethane	ND		1.0		ug/L			10/04/19 14:13	1
Dibromomethane	ND		10		ug/L			10/04/19 14:13	1
1,2-Dichlorobenzene	ND		10		ug/L			10/04/19 14:13	1
1,4-Dichlorobenzene	ND		10		ug/L			10/04/19 14:13	1
trans-1,4-Dichloro-2-butene	ND		100		ug/L			10/04/19 14:13	1
1,1-Dichloroethane	ND		2.0		ug/L			10/04/19 14:13	1
1,2-Dichloroethane	ND		2.0		ug/L			10/04/19 14:13	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 14:13	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/04/19 14:13	1
1,1-Dichloroethene	ND		2.0		ug/L			10/04/19 14:13	1
1,2-Dichloropropane	ND		2.0		ug/L			10/04/19 14:13	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 14:13	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/04/19 14:13	1
Ethylbenzene	ND		2.0		ug/L			10/04/19 14:13	1
2-Hexanone	ND		50		ug/L			10/04/19 14:13	1
Iodomethane	ND		100		ug/L			10/04/19 14:13	1
Methylene Chloride	ND		5.0		ug/L			10/04/19 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/04/19 14:13	1
Styrene	ND		10		ug/L			10/04/19 14:13	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 14:13	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/04/19 14:13	1
Tetrachloroethene	ND		2.0		ug/L			10/04/19 14:13	1
Toluene	ND		2.0		ug/L			10/04/19 14:13	1
1,1,1-Trichloroethane	ND		2.0		ug/L			10/04/19 14:13	1
1,1,2-Trichloroethane	ND		2.0		ug/L			10/04/19 14:13	1
Trichloroethene	ND		2.0		ug/L			10/04/19 14:13	1
Trichlorofluoromethane	ND		10		ug/L			10/04/19 14:13	1
1,2,3-Trichloropropane	ND		10		ug/L			10/04/19 14:13	1
Vinyl acetate	ND		100		ug/L			10/04/19 14:13	1
Vinyl chloride	ND		2.0		ug/L			10/04/19 14:13	1
Xylenes, Total	ND		5.0		ug/L			10/04/19 14:13	1

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

Lab Sample ID: MB 680-589239/9
Matrix: Water
Analysis Batch: 589239

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/04/19 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*10/04/19 14:13*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*10/04/19 14:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/04/19 14:13*	*1*

Lab Sample ID: LCS 680-589239/3
Matrix: Water
Analysis Batch: 589239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	214		ug/L		86	70 - 135
Acrylonitrile	500	494		ug/L		99	80 - 123
Benzene	50.0	49.8		ug/L		100	80 - 120
Bromochloromethane	50.0	53.0		ug/L		106	80 - 120
Bromodichloromethane	50.0	46.7		ug/L		93	80 - 120
Bromoform	50.0	67.3	*	ug/L		135	74 - 126
Bromomethane	50.0	59.6	E	ug/L		119	62 - 130
2-Butanone (MEK)	251	291		ug/L		116	80 - 131
Carbon disulfide	50.0	39.2	*	ug/L		78	80 - 120
Carbon tetrachloride	50.0	50.9		ug/L		102	76 - 123
Chlorobenzene	50.0	54.4		ug/L		109	80 - 120
Chloroethane	50.0	60.9		ug/L		122	66 - 135
Chloroform	50.0	50.9		ug/L		102	80 - 120
Chloromethane	50.0	54.1		ug/L		108	69 - 131
Dibromochloromethane	50.0	52.1		ug/L		104	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	47.5		ug/L		95	80 - 120
Dibromomethane	50.0	51.0		ug/L		102	80 - 120
1,2-Dichlorobenzene	50.0	58.2		ug/L		116	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	50.0	56.5	J	ug/L		113	68 - 125
1,1-Dichloroethane	50.0	47.5		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	47.6		ug/L		95	80 - 120
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	43.1		ug/L		86	76 - 120
1,2-Dichloropropane	50.0	42.4		ug/L		85	80 - 120
cis-1,3-Dichloropropene	50.0	43.8		ug/L		88	80 - 120
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	53.5		ug/L		107	80 - 120
2-Hexanone	250	250		ug/L		100	74 - 127
Iodomethane	50.0	38.4	J	ug/L		77	52 - 142
Methylene Chloride	50.0	49.7		ug/L		99	80 - 120
4-Methyl-2-pentanone (MIBK)	250	243		ug/L		97	76 - 124
Styrene	50.0	62.8	*	ug/L		126	80 - 120
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/L		111	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	80 - 120
Tetrachloroethene	50.0	51.1		ug/L		102	80 - 121

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

Lab Sample ID: LCS 680-589239/3
Matrix: Water
Analysis Batch: 589239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	53.7		ug/L		107	80 - 113
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	44.2		ug/L		88	80 - 120
Trichloroethene	50.0	49.8		ug/L		100	80 - 120
Trichlorofluoromethane	50.0	59.7		ug/L		119	60 - 141
1,2,3-Trichloropropane	50.0	64.8	*	ug/L		130	80 - 123
Vinyl acetate	100	108		ug/L		108	67 - 135
Vinyl chloride	50.0	45.2		ug/L		90	71 - 128
Xylenes, Total	100	115		ug/L		115	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*120*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 680-589239/4
Matrix: Water
Analysis Batch: 589239

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	245		ug/L		98	70 - 135	13	30
Acrylonitrile	500	481		ug/L		96	80 - 123	3	20
Benzene	50.0	48.7		ug/L		97	80 - 120	2	20
Bromochloromethane	50.0	51.4		ug/L		103	80 - 120	3	20
Bromodichloromethane	50.0	46.8		ug/L		94	80 - 120	0	20
Bromoform	50.0	57.1		ug/L		114	74 - 126	16	20
Bromomethane	50.0	67.1	E *	ug/L		134	62 - 130	12	20
2-Butanone (MEK)	251	285		ug/L		114	80 - 131	2	20
Carbon disulfide	50.0	47.3		ug/L		95	80 - 120	19	20
Carbon tetrachloride	50.0	55.3		ug/L		111	76 - 123	8	20
Chlorobenzene	50.0	54.3		ug/L		109	80 - 120	0	20
Chloroethane	50.0	70.9	*	ug/L		142	66 - 135	15	20
Chloroform	50.0	49.9		ug/L		100	80 - 120	2	20
Chloromethane	50.0	63.0		ug/L		126	69 - 131	15	30
Dibromochloromethane	50.0	52.1		ug/L		104	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	61.7	*	ug/L		123	71 - 134	23	20
1,2-Dibromoethane	50.0	54.1		ug/L		108	80 - 120	13	20
Dibromomethane	50.0	50.9		ug/L		102	80 - 120	0	20
1,2-Dichlorobenzene	50.0	60.6	*	ug/L		121	80 - 120	4	20
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120	4	20
trans-1,4-Dichloro-2-butene	50.0	46.4	J	ug/L		93	68 - 125	20	30
1,1-Dichloroethane	50.0	46.3		ug/L		93	80 - 120	2	20
1,2-Dichloroethane	50.0	46.4		ug/L		93	80 - 120	2	50
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	80 - 120	5	20
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120	0	20
1,1-Dichloroethene	50.0	52.9		ug/L		106	76 - 120	20	20
1,2-Dichloropropane	50.0	45.1		ug/L		90	80 - 120	6	20

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

Lab Sample ID: LCSD 680-589239/4
Matrix: Water
Analysis Batch: 589239

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	46.3		ug/L		93	80 - 120	6	20
trans-1,3-Dichloropropene			50.0	46.4		ug/L		93	80 - 120	5	30
Ethylbenzene			50.0	53.6		ug/L		107	80 - 120	0	20
2-Hexanone			250	253		ug/L		101	74 - 127	1	20
Iodomethane			50.0	40.5	J	ug/L		81	52 - 142	5	30
Methylene Chloride			50.0	49.2		ug/L		98	80 - 120	1	20
4-Methyl-2-pentanone (MIBK)			250	257		ug/L		103	76 - 124	5	20
Styrene			50.0	52.9		ug/L		106	80 - 120	17	20
1,1,1,2-Tetrachloroethane			50.0	55.2		ug/L		110	80 - 121	0	20
1,1,2,2-Tetrachloroethane			50.0	48.7		ug/L		97	80 - 120	6	20
Tetrachloroethene			50.0	57.8		ug/L		116	80 - 121	12	20
Toluene			50.0	52.0		ug/L		104	80 - 113	3	20
1,1,1-Trichloroethane			50.0	55.0		ug/L		110	80 - 120	4	20
1,1,2-Trichloroethane			50.0	47.3		ug/L		95	80 - 120	7	20
Trichloroethene			50.0	53.0		ug/L		106	80 - 120	6	20
Trichlorofluoromethane			50.0	76.3	*	ug/L		153	60 - 141	24	20
1,2,3-Trichloropropane			50.0	55.2		ug/L		110	80 - 123	16	30
Vinyl acetate			100	99.0	J	ug/L		99	67 - 135	9	20
Vinyl chloride			50.0	54.6		ug/L		109	71 - 128	19	20
Xylenes, Total			100	106		ug/L		106	80 - 120	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

QC Association Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

GC/MS VOA

Analysis Batch: 589239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174575-1	SWC-4A	Total/NA	Water	8260B	
680-174575-2	SWC-4B	Total/NA	Water	8260B	
680-174575-3	SWC-1	Total/NA	Water	8260B	
680-174575-4	AMW-1	Total/NA	Water	8260B	
680-174575-5	TB	Total/NA	Water	8260B	
MB 680-589239/9	Method Blank	Total/NA	Water	8260B	
LCS 680-589239/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589239/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: Atlantic Coast Consulting, Inc. Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Client Sample ID: SWC-4A — Lab Sample ID: 680-174575-1

Date Collected: 09/25/19 08:40 — **Matrix: Water**
Date Received: 09/26/19 07:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589239	10/04/19 17:45	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: SWC-4B — Lab Sample ID: 680-174575-2

Date Collected: 09/25/19 09:10 — **Matrix: Water**
Date Received: 09/26/19 07:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589239	10/04/19 18:11	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: SWC-1 — Lab Sample ID: 680-174575-3

Date Collected: 09/25/19 09:45 — **Matrix: Water**
Date Received: 09/26/19 07:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589239	10/04/19 18:38	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: AMW-1 — Lab Sample ID: 680-174575-4

Date Collected: 09/25/19 11:15 — **Matrix: Water**
Date Received: 09/26/19 07:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589239	10/04/19 19:03	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: TB — Lab Sample ID: 680-174575-5

Date Collected: 09/25/19 00:00 — **Matrix: Water**
Date Received: 09/26/19 07:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589239	10/04/19 14:39	UI	TAL SAV
	Instrument ID: CMSB									

Laboratory References:

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

Accreditation/Certification Summary

Client: Atlantic Coast Consulting, Inc. Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Laboratory: Eurofins TestAmerica, Savannah

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

Authority	Program	Identification Number	Expiration Date
Alabama	State Program	41450	06-30-20
Alaska (UST)	State Program	UST-104	09-22-22
Arizona	State Program	AZ0808	12-14-19
Arkansas DEQ	State Program	88-0692	02-01-20
California	State Program	2939	06-30-20
Colorado	State Program	N/A	12-31-19
Connecticut	State Program	PH-0161	03-31-21
Florida	NELAP	E87052	06-30-20
GA Dept. of Agriculture	State Program	N/A	06-12-20
Georgia	State Program	N/A	06-30-20
Guam	State Program	15-005r	04-17-20
Hawaii	State Program	N/A	06-30-20
Illinois	NELAP	200022	11-30-19
Indiana	State Program	N/A	06-30-20
Iowa	State Program	353	06-30-21
Kentucky (DW)	State Program	90084	12-31-19
Kentucky (UST)	State Program	18	06-30-20
Kentucky (WW)	State Program	90084	12-31-19
Louisiana	NELAP	30690	06-30-20
Louisiana (DW)	NELAP	LA160019	12-31-19
Maine	State Program	GA00006	09-25-20
Maryland	State Program	250	12-31-19
Massachusetts	State Program	M-GA006	06-30-20
Michigan	State Program	9925	06-30-20
Mississippi	State Program	N/A	06-30-20
Nebraska	State Program	TestAmerica-Savannah	06-30-20
New Jersey	NELAP	GA769	06-30-20
New Mexico	State Program	N/A	06-30-20
New York	NELAP	10842	04-01-20
North Carolina (DW)	State Program	13701	07-31-20
North Carolina (WW/SW)	State Program	269	12-31-19
Oklahoma	State Program	9984	08-31-20
Pennsylvania	NELAP	68-00474	06-30-20
Puerto Rico	State Program	GA00006	01-01-20
South Carolina	State Program	98001	06-30-20
Tennessee	State Program	TN02961	06-30-20
Texas	NELAP	T104704185-19-13	11-30-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
Virginia	NELAP	460161	06-14-20
Washington	State Program	C805	06-10-20
West Virginia (DW)	State Program	9950C	12-31-19
West Virginia DEP	State Program	094	10-31-19
Wisconsin	State Program	999819810	08-31-20
Wyoming	State Program	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Atlantic Coast Consulting, Inc.
Job ID: 680-174575-1
Project/Site: Forsyth County - Hightower Road Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-174575-1	SWC-4A	Water	09/25/19 08:40	09/26/19 07:20	
680-174575-2	SWC-4B	Water	09/25/19 09:10	09/26/19 07:20	
680-174575-3	SWC-1	Water	09/25/19 09:45	09/26/19 07:20	
680-174575-4	AMW-1	Water	09/25/19 11:15	09/26/19 07:20	
680-174575-5	TB	Water	09/25/19 00:00	09/26/19 07:20	

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

681-Atlanta

eurofins | Environment Testing TestAmerica

Client Information	Sampler: O. FULLUCA	Lab PM: Hallmon, Willie L	Carrier Tracking No(s):	COC No: 680-107710-42200.1
Client Contact: Mr. Charles Adams	Phone: (770) 594-5998	E-Mail: willie.hallmon@testamericainc.com		Page: Page 1 of 1
Company: Atlantic Coast Consulting, Inc.		Analysis Requested		Job #:
Address: 1150 Northmeadow Parkway Suite 100	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Roswell	TAT Requested (days):			
State, Zip: GA, 30076				
Phone: 770-712-9785(Tel)	PO #: Purchase Order not required			
Email: cadams@atlcc.net	WO #:			
Project Name: Forsyth County - Hightower Road Landfill	Project #: 68015371			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Appendix I VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
SWC-4A	9-25-19	0840	G	W	N	N	3	3	
SWC-4B	9-25-19	0910	G	W	N	N	3	3	
SWC-1	9-25-19	0945	G	W	N	N	3	3	
AMW-1	9-25-19	1115	G	W	N	N	[redacted]	2	3
TB	9-25-19	—	G	W	N	N	2	2	

680-174575 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9-25-19 1310	ACC		9-25-19 1310	TA
2	9/25/19		ECA		9/26/19 720	TASAV
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 | 3.1

Ver: 01/16/2019

ATTACHMENT B

STATISTICAL ANALYSIS

ATLANTIC COAST CONSULTING, INC.

STATISTICAL ANALYSIS:
Kruskal-Wallis Non-Parametric Test

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWB-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-1	FALSE	1%
1,1-Dichloroethane	PH1-GWC-4	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1	FALSE	1%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	1%
1,1-Dichloroethane	PH1-GWA-2	FALSE	1%
1,1-Dichloroethane	PH1-GWB-2	FALSE	1%
1,1-Dichloroethane	PH1-GWC-2	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3	TRUE	1%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	1%
1,1-Dichloroethane	GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-1	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-4	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-GWA-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWB-2	FALSE	0.45%
1,1-Dichloroethane	PH1-GWC-2	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3	TRUE	0.45%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	0.45%
cis-1,2-Dichloroethene	GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-4	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-GWA-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	1%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	1%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	1%
cis-1,2-Dichloroethene	GWC-1	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	0.45%
cis-1,2-Dichloroethene	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	0.45%
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-GWA-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	0.45%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	0.45%
Tetrachloroethene	GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWB-1	FALSE	1%
Tetrachloroethene	PH1-GWC-1	FALSE	1%
Tetrachloroethene	PH1-GWC-4	FALSE	1%
Tetrachloroethene	PH1-GWA-1	FALSE	1%
Tetrachloroethene	PH1-GWA-1A	FALSE	1%
Tetrachloroethene	PH1-GWA-2	FALSE	1%
Tetrachloroethene	PH1-GWB-2	FALSE	1%
Tetrachloroethene	PH1-GWC-2	TRUE	1%
Tetrachloroethene	PH1-GWC-3	TRUE	1%
Tetrachloroethene	PH1-GWC-3A	TRUE	1%
Tetrachloroethene	GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWB-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-1	FALSE	0.45%
Tetrachloroethene	PH1-GWC-4	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1	FALSE	0.45%
Tetrachloroethene	PH1-GWA-1A	FALSE	0.45%
Tetrachloroethene	PH1-GWA-2	FALSE	0.45%
Tetrachloroethene	PH1-GWB-2	FALSE	0.45%
Tetrachloroethene	PH1-GWC-2	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3	TRUE	0.45%
Tetrachloroethene	PH1-GWC-3A	TRUE	0.45%
Total Barium	GWC-1	TRUE	1%
Total Barium	PH1-GWA-1A	TRUE	1%
Total Barium	PH1-GWB-1	TRUE	1%
Total Barium	PH1-GWC-1	TRUE	1%
Total Barium	PH1-GWC-2	FALSE	1%
Total Barium	PH1-GWC-4	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	PH1-GWA-1	FALSE	1%
Total Barium	PH1-GWA-2	TRUE	1%
Total Barium	PH1-GWB-2	FALSE	1%
Total Barium	PH1-GWC-3	TRUE	1%
Total Barium	PH1-GWC-3A	TRUE	1%
Total Barium	GWC-1	TRUE	0.45%
Total Barium	PH1-GWA-1A	TRUE	0.45%
Total Barium	PH1-GWB-1	TRUE	0.45%
Total Barium	PH1-GWC-1	TRUE	0.45%
Total Barium	PH1-GWC-2	FALSE	0.45%
Total Barium	PH1-GWC-4	TRUE	0.45%
Total Barium	PH1-GWA-1	FALSE	0.45%
Total Barium	PH1-GWA-2	TRUE	0.45%
Total Barium	PH1-GWB-2	FALSE	0.45%
Total Barium	PH1-GWC-3	TRUE	0.45%
Total Barium	PH1-GWC-3A	TRUE	0.45%
Total Chromium	GWC-1	FALSE	1%
Total Chromium	PH1-GWA-1A	FALSE	1%
Total Chromium	PH1-GWB-1	FALSE	1%
Total Chromium	PH1-GWC-1	FALSE	1%
Total Chromium	PH1-GWC-2	FALSE	1%
Total Chromium	PH1-GWC-4	FALSE	1%
Total Chromium	PH1-GWA-1	FALSE	1%
Total Chromium	PH1-GWA-2	FALSE	1%
Total Chromium	PH1-GWB-2	FALSE	1%
Total Chromium	PH1-GWC-3	FALSE	1%
Total Chromium	PH1-GWC-3A	FALSE	1%
Total Chromium	GWC-1	FALSE	0.45%
Total Chromium	PH1-GWA-1A	FALSE	0.45%
Total Chromium	PH1-GWB-1	FALSE	0.45%
Total Chromium	PH1-GWC-1	FALSE	0.45%
Total Chromium	PH1-GWC-2	FALSE	0.45%
Total Chromium	PH1-GWC-4	FALSE	0.45%
Total Chromium	PH1-GWA-1	FALSE	0.45%
Total Chromium	PH1-GWA-2	FALSE	0.45%
Total Chromium	PH1-GWB-2	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	PH1-GWC-3	FALSE	0.45%
Total Chromium	PH1-GWC-3A	FALSE	0.45%
Total Cobalt	GWC-1	FALSE	1%
Total Cobalt	PH1-GWA-1A	FALSE	1%
Total Cobalt	PH1-GWB-1	FALSE	1%
Total Cobalt	PH1-GWC-1	FALSE	1%
Total Cobalt	PH1-GWC-2	FALSE	1%
Total Cobalt	PH1-GWC-4	FALSE	1%
Total Cobalt	PH1-GWA-1	TRUE	1%
Total Cobalt	PH1-GWA-2	FALSE	1%
Total Cobalt	PH1-GWB-2	FALSE	1%
Total Cobalt	PH1-GWC-3	FALSE	1%
Total Cobalt	PH1-GWC-3A	FALSE	1%
Total Cobalt	GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWA-1A	FALSE	0.45%
Total Cobalt	PH1-GWB-1	FALSE	0.45%
Total Cobalt	PH1-GWC-1	FALSE	0.45%
Total Cobalt	PH1-GWC-2	FALSE	0.45%
Total Cobalt	PH1-GWC-4	FALSE	0.45%
Total Cobalt	PH1-GWA-1	TRUE	0.45%
Total Cobalt	PH1-GWA-2	FALSE	0.45%
Total Cobalt	PH1-GWB-2	FALSE	0.45%
Total Cobalt	PH1-GWC-3	FALSE	0.45%
Total Cobalt	PH1-GWC-3A	FALSE	0.45%
Total Nickel	GWC-1	FALSE	5%
Total Nickel	PH1-GWA-1A	FALSE	5%
Total Nickel	PH1-GWB-1	FALSE	5%
Total Nickel	PH1-GWC-1	FALSE	5%
Total Nickel	PH1-GWC-2	FALSE	5%
Total Nickel	PH1-GWC-4	FALSE	5%
Total Nickel	PH1-GWA-1	FALSE	5%
Total Nickel	PH1-GWA-2	FALSE	5%
Total Nickel	PH1-GWB-2	FALSE	5%
Total Nickel	PH1-GWC-3	FALSE	5%
Total Nickel	PH1-GWC-3A	FALSE	5%
Total Vanadium	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.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Vanadium	PH1-GWA-1A	FALSE	5%
Total Vanadium	PH1-GWB-1	FALSE	5%
Total Vanadium	PH1-GWC-1	FALSE	5%
Total Vanadium	PH1-GWC-2	FALSE	5%
Total Vanadium	PH1-GWC-4	FALSE	5%
Total Vanadium	PH1-GWA-1	FALSE	5%
Total Vanadium	PH1-GWA-2	FALSE	5%
Total Vanadium	PH1-GWB-2	FALSE	5%
Total Vanadium	PH1-GWC-3	FALSE	5%
Total Vanadium	PH1-GWC-3A	FALSE	5%
Total Zinc	GWC-1	FALSE	1%
Total Zinc	PH1-GWA-1A	FALSE	1%
Total Zinc	PH1-GWB-1	FALSE	1%
Total Zinc	PH1-GWC-1	FALSE	1%
Total Zinc	PH1-GWC-2	FALSE	1%
Total Zinc	PH1-GWC-4	FALSE	1%
Total Zinc	PH1-GWA-1	TRUE	1%
Total Zinc	PH1-GWA-2	FALSE	1%
Total Zinc	PH1-GWB-2	TRUE	1%
Total Zinc	PH1-GWC-3	FALSE	1%
Total Zinc	PH1-GWC-3A	FALSE	1%
Total Zinc	GWC-1	FALSE	0.45%
Total Zinc	PH1-GWA-1A	FALSE	0.45%
Total Zinc	PH1-GWB-1	FALSE	0.45%
Total Zinc	PH1-GWC-1	FALSE	0.45%
Total Zinc	PH1-GWC-2	FALSE	0.45%
Total Zinc	PH1-GWC-4	FALSE	0.45%
Total Zinc	PH1-GWA-1	TRUE	0.45%
Total Zinc	PH1-GWA-2	FALSE	0.45%
Total Zinc	PH1-GWB-2	TRUE	0.45%
Total Zinc	PH1-GWC-3	FALSE	0.45%
Total Zinc	PH1-GWC-3A	FALSE	0.45%
Trichloroethene	GWC-1	FALSE	1%
Trichloroethene	PH1-GWB-1	FALSE	1%
Trichloroethene	PH1-GWC-1	FALSE	1%
Trichloroethene	PH1-GWC-4	FALSE	1%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	PH1-GWA-1	FALSE	1%
Trichloroethene	PH1-GWA-1A	FALSE	1%
Trichloroethene	PH1-GWA-2	TRUE	1%
Trichloroethene	PH1-GWB-2	FALSE	1%
Trichloroethene	PH1-GWC-2	FALSE	1%
Trichloroethene	PH1-GWC-3	TRUE	1%
Trichloroethene	PH1-GWC-3A	TRUE	1%
Trichloroethene	GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWB-1	FALSE	0.45%
Trichloroethene	PH1-GWC-1	FALSE	0.45%
Trichloroethene	PH1-GWC-4	FALSE	0.45%
Trichloroethene	PH1-GWA-1	FALSE	0.45%
Trichloroethene	PH1-GWA-1A	FALSE	0.45%
Trichloroethene	PH1-GWA-2	TRUE	0.45%
Trichloroethene	PH1-GWB-2	FALSE	0.45%
Trichloroethene	PH1-GWC-2	FALSE	0.45%
Trichloroethene	PH1-GWC-3	TRUE	0.45%
Trichloroethene	PH1-GWC-3A	TRUE	0.45%
BHC-beta	PH1-GWA-1	FALSE	5%
BHC-beta	PH1-GWA-2	FALSE	5%
BHC-beta	PH1-GWB-2	FALSE	5%
BHC-beta	PH1-GWC-2	FALSE	5%
BHC-beta	PH1-GWC-3	FALSE	5%
BHC-beta	PH1-GWC-3A	FALSE	5%
Sulfide	PH1-GWA-1	FALSE	5%
Sulfide	PH1-GWA-2	FALSE	5%
Sulfide	PH1-GWB-2	FALSE	5%
Sulfide	PH1-GWC-2	FALSE	5%
Sulfide	PH1-GWC-3	FALSE	5%
Sulfide	PH1-GWC-3A	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.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 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-10	FALSE	1%
1,1-Dichloroethane	GWC-10A	FALSE	1%
1,1-Dichloroethane	GWC-13	FALSE	1%
1,1-Dichloroethane	GWC-2	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-3	FALSE	1%
1,1-Dichloroethane	GWC-3A	FALSE	1%
1,1-Dichloroethane	GWC-4	FALSE	1%
1,1-Dichloroethane	GWC-5	FALSE	1%
1,1-Dichloroethane	GWC-6	FALSE	1%
1,1-Dichloroethane	GWC-7	FALSE	1%
1,1-Dichloroethane	GWC-9	FALSE	1%
1,1-Dichloroethane	GWA-1A	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-14	FALSE	1%
1,1-Dichloroethane	GWC-24	FALSE	1%
1,1-Dichloroethane	GWC-15	TRUE	1%
1,1-Dichloroethane	GWC-17	FALSE	1%
1,1-Dichloroethane	GWC-18	FALSE	1%
1,1-Dichloroethane	GWC-19R	FALSE	1%
1,1-Dichloroethane	GWC-14A	TRUE	1%
1,1-Dichloroethane	GWC-14R	TRUE	1%
1,1-Dichloroethane	GWC-4A	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	GWA-3	FALSE	0.16%
1,1-Dichloroethane	GWC-10	FALSE	0.16%
1,1-Dichloroethane	GWC-10A	FALSE	0.16%
1,1-Dichloroethane	GWC-13	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-2	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-3	FALSE	0.16%
1,1-Dichloroethane	GWC-3A	FALSE	0.16%
1,1-Dichloroethane	GWC-4	FALSE	0.16%
1,1-Dichloroethane	GWC-5	FALSE	0.16%
1,1-Dichloroethane	GWC-6	FALSE	0.16%
1,1-Dichloroethane	GWC-7	FALSE	0.16%
1,1-Dichloroethane	GWC-9	FALSE	0.16%
1,1-Dichloroethane	GWA-1A	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-14	FALSE	0.16%
1,1-Dichloroethane	GWC-24	FALSE	0.16%
1,1-Dichloroethane	GWC-15	FALSE	0.16%
1,1-Dichloroethane	GWC-17	FALSE	0.16%
1,1-Dichloroethane	GWC-18	FALSE	0.16%
1,1-Dichloroethane	GWC-19R	FALSE	0.16%
1,1-Dichloroethane	GWC-14A	TRUE	0.16%
1,1-Dichloroethane	GWC-14R	TRUE	0.16%
1,1-Dichloroethane	GWC-4A	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%
Acetone	GWA-3	FALSE	1%
Acetone	GWC-10	FALSE	1%
Acetone	GWC-10A	FALSE	1%
Acetone	GWC-13	FALSE	1%
Acetone	GWC-2	FALSE	1%
Acetone	GWC-22	FALSE	1%
Acetone	GWC-23	FALSE	1%
Acetone	GWC-23A	FALSE	1%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-3	FALSE	1%
Acetone	GWC-3A	FALSE	1%
Acetone	GWC-4	FALSE	1%
Acetone	GWC-5	FALSE	1%
Acetone	GWC-6	FALSE	1%
Acetone	GWC-7	FALSE	1%
Acetone	GWC-9	FALSE	1%
Acetone	GWA-1A	FALSE	1%
Acetone	GWC-11	FALSE	1%
Acetone	GWC-12	FALSE	1%
Acetone	GWC-12A	FALSE	1%
Acetone	GWC-14	FALSE	1%
Acetone	GWC-24	FALSE	1%
Acetone	GWC-15	FALSE	1%
Acetone	GWC-17	FALSE	1%
Acetone	GWC-18	FALSE	1%
Acetone	GWC-19R	FALSE	1%
Acetone	GWC-14A	FALSE	1%
Acetone	GWC-14R	FALSE	1%
Acetone	GWC-4A	FALSE	1%
Acetone	GWC-8	FALSE	1%
Acetone	GWC-8A	FALSE	1%
Acetone	GWC-8R	FALSE	1%
Acetone	GWC-16A	FALSE	1%
Acetone	GWA-3	FALSE	0.16%
Acetone	GWC-10	FALSE	0.16%
Acetone	GWC-10A	FALSE	0.16%
Acetone	GWC-13	FALSE	0.16%
Acetone	GWC-2	FALSE	0.16%
Acetone	GWC-22	FALSE	0.16%
Acetone	GWC-23	FALSE	0.16%
Acetone	GWC-23A	FALSE	0.16%
Acetone	GWC-3	FALSE	0.16%
Acetone	GWC-3A	FALSE	0.16%
Acetone	GWC-4	FALSE	0.16%
Acetone	GWC-5	FALSE	0.16%

Notes:
1. Original data are not transformed.
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3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-6	FALSE	0.16%
Acetone	GWC-7	FALSE	0.16%
Acetone	GWC-9	FALSE	0.16%
Acetone	GWA-1A	FALSE	0.16%
Acetone	GWC-11	FALSE	0.16%
Acetone	GWC-12	FALSE	0.16%
Acetone	GWC-12A	FALSE	0.16%
Acetone	GWC-14	FALSE	0.16%
Acetone	GWC-24	FALSE	0.16%
Acetone	GWC-15	FALSE	0.16%
Acetone	GWC-17	FALSE	0.16%
Acetone	GWC-18	FALSE	0.16%
Acetone	GWC-19R	FALSE	0.16%
Acetone	GWC-14A	FALSE	0.16%
Acetone	GWC-14R	FALSE	0.16%
Acetone	GWC-4A	FALSE	0.16%
Acetone	GWC-8	FALSE	0.16%
Acetone	GWC-8A	FALSE	0.16%
Acetone	GWC-8R	FALSE	0.16%
Acetone	GWC-16A	FALSE	0.16%
Aldrin	GWC-17	FALSE	5%
Aldrin	GWC-18	FALSE	5%
Aldrin	GWC-15	FALSE	5%
Aldrin	GWC-19R	FALSE	5%
Aldrin	GWC-14A	FALSE	5%
Aldrin	GWC-24	FALSE	5%
Aldrin	GWC-8	FALSE	5%
Aldrin	GWC-8A	FALSE	5%
Aldrin	GWC-16A	FALSE	5%
Benzene	GWA-3	FALSE	1%
Benzene	GWC-10	FALSE	1%
Benzene	GWC-10A	FALSE	1%
Benzene	GWC-13	FALSE	1%
Benzene	GWC-2	FALSE	1%
Benzene	GWC-22	FALSE	1%
Benzene	GWC-23	FALSE	1%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-23A	FALSE	1%
Benzene	GWC-3	FALSE	1%
Benzene	GWC-3A	FALSE	1%
Benzene	GWC-4	FALSE	1%
Benzene	GWC-5	FALSE	1%
Benzene	GWC-6	FALSE	1%
Benzene	GWC-7	FALSE	1%
Benzene	GWC-9	FALSE	1%
Benzene	GWA-1A	FALSE	1%
Benzene	GWC-11	FALSE	1%
Benzene	GWC-12	FALSE	1%
Benzene	GWC-12A	FALSE	1%
Benzene	GWC-14	FALSE	1%
Benzene	GWC-24	FALSE	1%
Benzene	GWC-15	FALSE	1%
Benzene	GWC-17	FALSE	1%
Benzene	GWC-18	FALSE	1%
Benzene	GWC-19R	FALSE	1%
Benzene	GWC-14A	TRUE	1%
Benzene	GWC-14R	FALSE	1%
Benzene	GWC-4A	FALSE	1%
Benzene	GWC-8	FALSE	1%
Benzene	GWC-8A	TRUE	1%
Benzene	GWC-8R	FALSE	1%
Benzene	GWC-16A	FALSE	1%
Benzene	GWA-3	FALSE	0.16%
Benzene	GWC-10	FALSE	0.16%
Benzene	GWC-10A	FALSE	0.16%
Benzene	GWC-13	FALSE	0.16%
Benzene	GWC-2	FALSE	0.16%
Benzene	GWC-22	FALSE	0.16%
Benzene	GWC-23	FALSE	0.16%
Benzene	GWC-23A	FALSE	0.16%
Benzene	GWC-3	FALSE	0.16%
Benzene	GWC-3A	FALSE	0.16%
Benzene	GWC-4	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-5	FALSE	0.16%
Benzene	GWC-6	FALSE	0.16%
Benzene	GWC-7	FALSE	0.16%
Benzene	GWC-9	FALSE	0.16%
Benzene	GWA-1A	FALSE	0.16%
Benzene	GWC-11	FALSE	0.16%
Benzene	GWC-12	FALSE	0.16%
Benzene	GWC-12A	FALSE	0.16%
Benzene	GWC-14	FALSE	0.16%
Benzene	GWC-24	FALSE	0.16%
Benzene	GWC-15	FALSE	0.16%
Benzene	GWC-17	FALSE	0.16%
Benzene	GWC-18	FALSE	0.16%
Benzene	GWC-19R	FALSE	0.16%
Benzene	GWC-14A	TRUE	0.16%
Benzene	GWC-14R	FALSE	0.16%
Benzene	GWC-4A	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%
bis(2-Ethylhexyl) phthalate	GWC-19R	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-8A	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-17	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-18	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-15	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-14A	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-14R	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-24	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-8	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-8R	FALSE	5%
bis(2-Ethylhexyl) phthalate	GWC-16A	FALSE	5%
Chloroethane	GWA-3	FALSE	1%
Chloroethane	GWC-10	FALSE	1%
Chloroethane	GWC-10A	FALSE	1%
Chloroethane	GWC-13	FALSE	1%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-2	FALSE	1%
Chloroethane	GWC-22	FALSE	1%
Chloroethane	GWC-23	FALSE	1%
Chloroethane	GWC-23A	FALSE	1%
Chloroethane	GWC-3	FALSE	1%
Chloroethane	GWC-3A	FALSE	1%
Chloroethane	GWC-4	FALSE	1%
Chloroethane	GWC-5	FALSE	1%
Chloroethane	GWC-6	FALSE	1%
Chloroethane	GWC-7	FALSE	1%
Chloroethane	GWC-9	FALSE	1%
Chloroethane	GWA-1A	FALSE	1%
Chloroethane	GWC-11	FALSE	1%
Chloroethane	GWC-12	FALSE	1%
Chloroethane	GWC-12A	FALSE	1%
Chloroethane	GWC-14	FALSE	1%
Chloroethane	GWC-24	FALSE	1%
Chloroethane	GWC-15	FALSE	1%
Chloroethane	GWC-17	FALSE	1%
Chloroethane	GWC-18	FALSE	1%
Chloroethane	GWC-19R	FALSE	1%
Chloroethane	GWC-14A	TRUE	1%
Chloroethane	GWC-14R	FALSE	1%
Chloroethane	GWC-4A	FALSE	1%
Chloroethane	GWC-8	FALSE	1%
Chloroethane	GWC-8A	FALSE	1%
Chloroethane	GWC-8R	FALSE	1%
Chloroethane	GWC-16A	FALSE	1%
Chloroethane	GWA-3	FALSE	0.16%
Chloroethane	GWC-10	FALSE	0.16%
Chloroethane	GWC-10A	FALSE	0.16%
Chloroethane	GWC-13	FALSE	0.16%
Chloroethane	GWC-2	FALSE	0.16%
Chloroethane	GWC-22	FALSE	0.16%
Chloroethane	GWC-23	FALSE	0.16%
Chloroethane	GWC-23A	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
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Chloroethane	GWC-3	FALSE	0.16%
Chloroethane	GWC-3A	FALSE	0.16%
Chloroethane	GWC-4	FALSE	0.16%
Chloroethane	GWC-5	FALSE	0.16%
Chloroethane	GWC-6	FALSE	0.16%
Chloroethane	GWC-7	FALSE	0.16%
Chloroethane	GWC-9	FALSE	0.16%
Chloroethane	GWA-1A	FALSE	0.16%
Chloroethane	GWC-11	FALSE	0.16%
Chloroethane	GWC-12	FALSE	0.16%
Chloroethane	GWC-12A	FALSE	0.16%
Chloroethane	GWC-14	FALSE	0.16%
Chloroethane	GWC-24	FALSE	0.16%
Chloroethane	GWC-15	FALSE	0.16%
Chloroethane	GWC-17	FALSE	0.16%
Chloroethane	GWC-18	FALSE	0.16%
Chloroethane	GWC-19R	FALSE	0.16%
Chloroethane	GWC-14A	TRUE	0.16%
Chloroethane	GWC-14R	FALSE	0.16%
Chloroethane	GWC-4A	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%
cis-1,2-Dichloroethene	GWA-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-10	FALSE	1%
cis-1,2-Dichloroethene	GWC-10A	FALSE	1%
cis-1,2-Dichloroethene	GWC-13	FALSE	1%
cis-1,2-Dichloroethene	GWC-2	FALSE	1%
cis-1,2-Dichloroethene	GWC-22	FALSE	1%
cis-1,2-Dichloroethene	GWC-23	FALSE	1%
cis-1,2-Dichloroethene	GWC-23A	FALSE	1%
cis-1,2-Dichloroethene	GWC-3	FALSE	1%
cis-1,2-Dichloroethene	GWC-3A	FALSE	1%
cis-1,2-Dichloroethene	GWC-4	FALSE	1%
cis-1,2-Dichloroethene	GWC-5	FALSE	1%

Notes:
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2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-6	FALSE	1%
cis-1,2-Dichloroethene	GWC-7	FALSE	1%
cis-1,2-Dichloroethene	GWC-9	FALSE	1%
cis-1,2-Dichloroethene	GWA-1A	FALSE	1%
cis-1,2-Dichloroethene	GWC-11	FALSE	1%
cis-1,2-Dichloroethene	GWC-12	FALSE	1%
cis-1,2-Dichloroethene	GWC-12A	FALSE	1%
cis-1,2-Dichloroethene	GWC-14	FALSE	1%
cis-1,2-Dichloroethene	GWC-24	TRUE	1%
cis-1,2-Dichloroethene	GWC-15	TRUE	1%
cis-1,2-Dichloroethene	GWC-17	TRUE	1%
cis-1,2-Dichloroethene	GWC-18	TRUE	1%
cis-1,2-Dichloroethene	GWC-19R	TRUE	1%
cis-1,2-Dichloroethene	GWC-14A	TRUE	1%
cis-1,2-Dichloroethene	GWC-14R	TRUE	1%
cis-1,2-Dichloroethene	GWC-4A	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	GWA-3	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-13	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-2	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-22	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-23A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-3A	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-4	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-5	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-6	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-7	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-9	FALSE	0.16%
cis-1,2-Dichloroethene	GWA-1A	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
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-14	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-24	FALSE	0.16%
cis-1,2-Dichloroethene	GWC-15	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-17	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-18	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-19R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14A	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-14R	TRUE	0.16%
cis-1,2-Dichloroethene	GWC-4A	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	TRUE	0.16%
Methylene Chloride	GWA-3	FALSE	1%
Methylene Chloride	GWC-10	FALSE	1%
Methylene Chloride	GWC-10A	FALSE	1%
Methylene Chloride	GWC-13	FALSE	1%
Methylene Chloride	GWC-2	FALSE	1%
Methylene Chloride	GWC-22	FALSE	1%
Methylene Chloride	GWC-23	FALSE	1%
Methylene Chloride	GWC-23A	FALSE	1%
Methylene Chloride	GWC-3	FALSE	1%
Methylene Chloride	GWC-3A	FALSE	1%
Methylene Chloride	GWC-4	FALSE	1%
Methylene Chloride	GWC-5	FALSE	1%
Methylene Chloride	GWC-6	FALSE	1%
Methylene Chloride	GWC-7	FALSE	1%
Methylene Chloride	GWC-9	FALSE	1%
Methylene Chloride	GWA-1A	FALSE	1%
Methylene Chloride	GWC-11	FALSE	1%
Methylene Chloride	GWC-12	FALSE	1%
Methylene Chloride	GWC-12A	FALSE	1%
Methylene Chloride	GWC-14	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Methylene Chloride	GWC-24	FALSE	1%
Methylene Chloride	GWC-15	FALSE	1%
Methylene Chloride	GWC-17	FALSE	1%
Methylene Chloride	GWC-18	FALSE	1%
Methylene Chloride	GWC-19R	FALSE	1%
Methylene Chloride	GWC-14A	FALSE	1%
Methylene Chloride	GWC-14R	FALSE	1%
Methylene Chloride	GWC-4A	FALSE	1%
Methylene Chloride	GWC-8	FALSE	1%
Methylene Chloride	GWC-8A	FALSE	1%
Methylene Chloride	GWC-8R	FALSE	1%
Methylene Chloride	GWC-16A	FALSE	1%
Methylene Chloride	GWA-3	FALSE	0.16%
Methylene Chloride	GWC-10	FALSE	0.16%
Methylene Chloride	GWC-10A	FALSE	0.16%
Methylene Chloride	GWC-13	FALSE	0.16%
Methylene Chloride	GWC-2	FALSE	0.16%
Methylene Chloride	GWC-22	FALSE	0.16%
Methylene Chloride	GWC-23	FALSE	0.16%
Methylene Chloride	GWC-23A	FALSE	0.16%
Methylene Chloride	GWC-3	FALSE	0.16%
Methylene Chloride	GWC-3A	FALSE	0.16%
Methylene Chloride	GWC-4	FALSE	0.16%
Methylene Chloride	GWC-5	FALSE	0.16%
Methylene Chloride	GWC-6	FALSE	0.16%
Methylene Chloride	GWC-7	FALSE	0.16%
Methylene Chloride	GWC-9	FALSE	0.16%
Methylene Chloride	GWA-1A	FALSE	0.16%
Methylene Chloride	GWC-11	FALSE	0.16%
Methylene Chloride	GWC-12	FALSE	0.16%
Methylene Chloride	GWC-12A	FALSE	0.16%
Methylene Chloride	GWC-14	FALSE	0.16%
Methylene Chloride	GWC-24	FALSE	0.16%
Methylene Chloride	GWC-15	FALSE	0.16%
Methylene Chloride	GWC-17	FALSE	0.16%
Methylene Chloride	GWC-18	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Methylene Chloride	GWC-19R	FALSE	0.16%
Methylene Chloride	GWC-14A	FALSE	0.16%
Methylene Chloride	GWC-14R	FALSE	0.16%
Methylene Chloride	GWC-4A	FALSE	0.16%
Methylene Chloride	GWC-8	FALSE	0.16%
Methylene Chloride	GWC-8A	FALSE	0.16%
Methylene Chloride	GWC-8R	FALSE	0.16%
Methylene Chloride	GWC-16A	FALSE	0.16%
Sulfide	GWC-17	FALSE	5%
Sulfide	GWC-18	FALSE	5%
Sulfide	GWC-15	FALSE	5%
Sulfide	GWC-19R	FALSE	5%
Sulfide	GWC-14A	FALSE	5%
Sulfide	GWC-24	FALSE	5%
Sulfide	GWC-8	FALSE	5%
Sulfide	GWC-8A	FALSE	5%
Sulfide	GWC-16A	FALSE	5%
Tetrachloroethene	GWA-3	FALSE	1%
Tetrachloroethene	GWC-10	FALSE	1%
Tetrachloroethene	GWC-10A	FALSE	1%
Tetrachloroethene	GWC-13	FALSE	1%
Tetrachloroethene	GWC-2	FALSE	1%
Tetrachloroethene	GWC-22	FALSE	1%
Tetrachloroethene	GWC-23	FALSE	1%
Tetrachloroethene	GWC-23A	FALSE	1%
Tetrachloroethene	GWC-3	FALSE	1%
Tetrachloroethene	GWC-3A	FALSE	1%
Tetrachloroethene	GWC-4	FALSE	1%
Tetrachloroethene	GWC-5	FALSE	1%
Tetrachloroethene	GWC-6	FALSE	1%
Tetrachloroethene	GWC-7	FALSE	1%
Tetrachloroethene	GWC-9	FALSE	1%
Tetrachloroethene	GWA-1A	FALSE	1%
Tetrachloroethene	GWC-11	FALSE	1%
Tetrachloroethene	GWC-12	FALSE	1%
Tetrachloroethene	GWC-12A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-14	FALSE	1%
Tetrachloroethene	GWC-24	FALSE	1%
Tetrachloroethene	GWC-15	TRUE	1%
Tetrachloroethene	GWC-17	FALSE	1%
Tetrachloroethene	GWC-18	TRUE	1%
Tetrachloroethene	GWC-19R	FALSE	1%
Tetrachloroethene	GWC-14A	FALSE	1%
Tetrachloroethene	GWC-14R	TRUE	1%
Tetrachloroethene	GWC-4A	FALSE	1%
Tetrachloroethene	GWC-8	FALSE	1%
Tetrachloroethene	GWC-8A	FALSE	1%
Tetrachloroethene	GWC-8R	FALSE	1%
Tetrachloroethene	GWC-16A	FALSE	1%
Tetrachloroethene	GWA-3	FALSE	0.16%
Tetrachloroethene	GWC-10	FALSE	0.16%
Tetrachloroethene	GWC-10A	FALSE	0.16%
Tetrachloroethene	GWC-13	FALSE	0.16%
Tetrachloroethene	GWC-2	FALSE	0.16%
Tetrachloroethene	GWC-22	FALSE	0.16%
Tetrachloroethene	GWC-23	FALSE	0.16%
Tetrachloroethene	GWC-23A	FALSE	0.16%
Tetrachloroethene	GWC-3	FALSE	0.16%
Tetrachloroethene	GWC-3A	FALSE	0.16%
Tetrachloroethene	GWC-4	FALSE	0.16%
Tetrachloroethene	GWC-5	FALSE	0.16%
Tetrachloroethene	GWC-6	FALSE	0.16%
Tetrachloroethene	GWC-7	FALSE	0.16%
Tetrachloroethene	GWC-9	FALSE	0.16%
Tetrachloroethene	GWA-1A	FALSE	0.16%
Tetrachloroethene	GWC-11	FALSE	0.16%
Tetrachloroethene	GWC-12	FALSE	0.16%
Tetrachloroethene	GWC-12A	FALSE	0.16%
Tetrachloroethene	GWC-14	FALSE	0.16%
Tetrachloroethene	GWC-24	FALSE	0.16%
Tetrachloroethene	GWC-15	TRUE	0.16%
Tetrachloroethene	GWC-17	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-18	TRUE	0.16%
Tetrachloroethene	GWC-19R	FALSE	0.16%
Tetrachloroethene	GWC-14A	FALSE	0.16%
Tetrachloroethene	GWC-14R	TRUE	0.16%
Tetrachloroethene	GWC-4A	FALSE	0.16%
Tetrachloroethene	GWC-8	FALSE	0.16%
Tetrachloroethene	GWC-8A	FALSE	0.16%
Tetrachloroethene	GWC-8R	FALSE	0.16%
Tetrachloroethene	GWC-16A	FALSE	0.16%
Toluene	GWA-3	FALSE	1%
Toluene	GWC-10	FALSE	1%
Toluene	GWC-10A	FALSE	1%
Toluene	GWC-13	FALSE	1%
Toluene	GWC-2	FALSE	1%
Toluene	GWC-22	FALSE	1%
Toluene	GWC-23	FALSE	1%
Toluene	GWC-23A	FALSE	1%
Toluene	GWC-3	FALSE	1%
Toluene	GWC-3A	FALSE	1%
Toluene	GWC-4	FALSE	1%
Toluene	GWC-5	FALSE	1%
Toluene	GWC-6	FALSE	1%
Toluene	GWC-7	FALSE	1%
Toluene	GWC-9	FALSE	1%
Toluene	GWA-1A	FALSE	1%
Toluene	GWC-11	FALSE	1%
Toluene	GWC-12	FALSE	1%
Toluene	GWC-12A	FALSE	1%
Toluene	GWC-14	FALSE	1%
Toluene	GWC-24	FALSE	1%
Toluene	GWC-15	FALSE	1%
Toluene	GWC-17	FALSE	1%
Toluene	GWC-18	FALSE	1%
Toluene	GWC-19R	FALSE	1%
Toluene	GWC-14A	FALSE	1%
Toluene	GWC-14R	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-4A	FALSE	1%
Toluene	GWC-8	FALSE	1%
Toluene	GWC-8A	FALSE	1%
Toluene	GWC-8R	FALSE	1%
Toluene	GWC-16A	FALSE	1%
Toluene	GWA-3	FALSE	0.16%
Toluene	GWC-10	FALSE	0.16%
Toluene	GWC-10A	FALSE	0.16%
Toluene	GWC-13	FALSE	0.16%
Toluene	GWC-2	FALSE	0.16%
Toluene	GWC-22	FALSE	0.16%
Toluene	GWC-23	FALSE	0.16%
Toluene	GWC-23A	FALSE	0.16%
Toluene	GWC-3	FALSE	0.16%
Toluene	GWC-3A	FALSE	0.16%
Toluene	GWC-4	FALSE	0.16%
Toluene	GWC-5	FALSE	0.16%
Toluene	GWC-6	FALSE	0.16%
Toluene	GWC-7	FALSE	0.16%
Toluene	GWC-9	FALSE	0.16%
Toluene	GWA-1A	FALSE	0.16%
Toluene	GWC-11	FALSE	0.16%
Toluene	GWC-12	FALSE	0.16%
Toluene	GWC-12A	FALSE	0.16%
Toluene	GWC-14	FALSE	0.16%
Toluene	GWC-24	FALSE	0.16%
Toluene	GWC-15	FALSE	0.16%
Toluene	GWC-17	FALSE	0.16%
Toluene	GWC-18	FALSE	0.16%
Toluene	GWC-19R	FALSE	0.16%
Toluene	GWC-14A	FALSE	0.16%
Toluene	GWC-14R	FALSE	0.16%
Toluene	GWC-4A	FALSE	0.16%
Toluene	GWC-8	FALSE	0.16%
Toluene	GWC-8A	FALSE	0.16%
Toluene	GWC-8R	FALSE	0.16%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-16A	FALSE	0.16%
Total Barium	GWA-1A	FALSE	1%
Total Barium	GWA-3	FALSE	1%
Total Barium	GWC-10	FALSE	1%
Total Barium	GWC-10A	FALSE	1%
Total Barium	GWC-13	FALSE	1%
Total Barium	GWC-2	FALSE	1%
Total Barium	GWC-22	FALSE	1%
Total Barium	GWC-23	FALSE	1%
Total Barium	GWC-23A	FALSE	1%
Total Barium	GWC-3	FALSE	1%
Total Barium	GWC-3A	FALSE	1%
Total Barium	GWC-4	FALSE	1%
Total Barium	GWC-5	FALSE	1%
Total Barium	GWC-6	FALSE	1%
Total Barium	GWC-7	TRUE	1%
Total Barium	GWC-9	TRUE	1%
Total Barium	GWC-11	FALSE	1%
Total Barium	GWC-12	FALSE	1%
Total Barium	GWC-12A	FALSE	1%
Total Barium	GWC-14	FALSE	1%
Total Barium	GWC-15	TRUE	1%
Total Barium	GWC-17	TRUE	1%
Total Barium	GWC-18	TRUE	1%
Total Barium	GWC-19R	TRUE	1%
Total Barium	GWC-4A	FALSE	1%
Total Barium	GWC-14A	TRUE	1%
Total Barium	GWC-8	FALSE	1%
Total Barium	GWC-8A	TRUE	1%
Total Barium	GWC-24	FALSE	1%
Total Barium	GWC-16A	FALSE	1%
Total Barium	GWA-1A	FALSE	0.17%
Total Barium	GWA-3	FALSE	0.17%
Total Barium	GWC-10	FALSE	0.17%
Total Barium	GWC-10A	FALSE	0.17%
Total Barium	GWC-13	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-2	FALSE	0.17%
Total Barium	GWC-22	FALSE	0.17%
Total Barium	GWC-23	FALSE	0.17%
Total Barium	GWC-23A	FALSE	0.17%
Total Barium	GWC-3	FALSE	0.17%
Total Barium	GWC-3A	FALSE	0.17%
Total Barium	GWC-4	FALSE	0.17%
Total Barium	GWC-5	FALSE	0.17%
Total Barium	GWC-6	FALSE	0.17%
Total Barium	GWC-7	TRUE	0.17%
Total Barium	GWC-9	TRUE	0.17%
Total Barium	GWC-11	FALSE	0.17%
Total Barium	GWC-12	FALSE	0.17%
Total Barium	GWC-12A	FALSE	0.17%
Total Barium	GWC-14	FALSE	0.17%
Total Barium	GWC-15	TRUE	0.17%
Total Barium	GWC-17	FALSE	0.17%
Total Barium	GWC-18	TRUE	0.17%
Total Barium	GWC-19R	TRUE	0.17%
Total Barium	GWC-4A	FALSE	0.17%
Total Barium	GWC-14A	TRUE	0.17%
Total Barium	GWC-8	FALSE	0.17%
Total Barium	GWC-8A	FALSE	0.17%
Total Barium	GWC-24	FALSE	0.17%
Total Barium	GWC-16A	FALSE	0.17%
Total Chromium	GWA-1A	FALSE	1%
Total Chromium	GWA-3	FALSE	1%
Total Chromium	GWC-10	FALSE	1%
Total Chromium	GWC-10A	FALSE	1%
Total Chromium	GWC-13	FALSE	1%
Total Chromium	GWC-2	FALSE	1%
Total Chromium	GWC-22	FALSE	1%
Total Chromium	GWC-23	FALSE	1%
Total Chromium	GWC-23A	FALSE	1%
Total Chromium	GWC-3	FALSE	1%
Total Chromium	GWC-3A	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-4	FALSE	1%
Total Chromium	GWC-5	FALSE	1%
Total Chromium	GWC-6	FALSE	1%
Total Chromium	GWC-7	FALSE	1%
Total Chromium	GWC-9	FALSE	1%
Total Chromium	GWC-11	FALSE	1%
Total Chromium	GWC-12	FALSE	1%
Total Chromium	GWC-12A	FALSE	1%
Total Chromium	GWC-14	FALSE	1%
Total Chromium	GWC-15	FALSE	1%
Total Chromium	GWC-17	FALSE	1%
Total Chromium	GWC-18	FALSE	1%
Total Chromium	GWC-19R	FALSE	1%
Total Chromium	GWC-4A	FALSE	1%
Total Chromium	GWC-14A	FALSE	1%
Total Chromium	GWC-8	FALSE	1%
Total Chromium	GWC-8A	FALSE	1%
Total Chromium	GWC-24	FALSE	1%
Total Chromium	GWC-16A	FALSE	1%
Total Chromium	GWA-1A	FALSE	0.17%
Total Chromium	GWA-3	FALSE	0.17%
Total Chromium	GWC-10	FALSE	0.17%
Total Chromium	GWC-10A	FALSE	0.17%
Total Chromium	GWC-13	FALSE	0.17%
Total Chromium	GWC-2	FALSE	0.17%
Total Chromium	GWC-22	FALSE	0.17%
Total Chromium	GWC-23	FALSE	0.17%
Total Chromium	GWC-23A	FALSE	0.17%
Total Chromium	GWC-3	FALSE	0.17%
Total Chromium	GWC-3A	FALSE	0.17%
Total Chromium	GWC-4	FALSE	0.17%
Total Chromium	GWC-5	FALSE	0.17%
Total Chromium	GWC-6	FALSE	0.17%
Total Chromium	GWC-7	FALSE	0.17%
Total Chromium	GWC-9	FALSE	0.17%
Total Chromium	GWC-11	FALSE	0.17%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-12	FALSE	0.17%
Total Chromium	GWC-12A	FALSE	0.17%
Total Chromium	GWC-14	FALSE	0.17%
Total Chromium	GWC-15	FALSE	0.17%
Total Chromium	GWC-17	FALSE	0.17%
Total Chromium	GWC-18	FALSE	0.17%
Total Chromium	GWC-19R	FALSE	0.17%
Total Chromium	GWC-4A	FALSE	0.17%
Total Chromium	GWC-14A	FALSE	0.17%
Total Chromium	GWC-8	FALSE	0.17%
Total Chromium	GWC-8A	FALSE	0.17%
Total Chromium	GWC-24	FALSE	0.17%
Total Chromium	GWC-16A	FALSE	0.17%
Total Cobalt	GWA-1A	FALSE	1%
Total Cobalt	GWA-3	FALSE	1%
Total Cobalt	GWC-10	FALSE	1%
Total Cobalt	GWC-10A	FALSE	1%
Total Cobalt	GWC-13	FALSE	1%
Total Cobalt	GWC-2	FALSE	1%
Total Cobalt	GWC-22	FALSE	1%
Total Cobalt	GWC-23	FALSE	1%
Total Cobalt	GWC-23A	FALSE	1%
Total Cobalt	GWC-3	FALSE	1%
Total Cobalt	GWC-3A	FALSE	1%
Total Cobalt	GWC-4	FALSE	1%
Total Cobalt	GWC-5	FALSE	1%
Total Cobalt	GWC-6	FALSE	1%
Total Cobalt	GWC-7	FALSE	1%
Total Cobalt	GWC-9	FALSE	1%
Total Cobalt	GWC-11	FALSE	1%
Total Cobalt	GWC-12	FALSE	1%
Total Cobalt	GWC-12A	FALSE	1%
Total Cobalt	GWC-14	TRUE	1%
Total Cobalt	GWC-15	FALSE	1%
Total Cobalt	GWC-17	FALSE	1%
Total Cobalt	GWC-18	FALSE	1%

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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-19R	FALSE	1%
Total Cobalt	GWC-4A	FALSE	1%
Total Cobalt	GWC-14A	TRUE	1%
Total Cobalt	GWC-8	FALSE	1%
Total Cobalt	GWC-8A	FALSE	1%
Total Cobalt	GWC-24	FALSE	1%
Total Cobalt	GWC-16A	FALSE	1%
Total Cobalt	GWA-1A	FALSE	0.17%
Total Cobalt	GWA-3	FALSE	0.17%
Total Cobalt	GWC-10	FALSE	0.17%
Total Cobalt	GWC-10A	FALSE	0.17%
Total Cobalt	GWC-13	FALSE	0.17%
Total Cobalt	GWC-2	FALSE	0.17%
Total Cobalt	GWC-22	FALSE	0.17%
Total Cobalt	GWC-23	FALSE	0.17%
Total Cobalt	GWC-23A	FALSE	0.17%
Total Cobalt	GWC-3	FALSE	0.17%
Total Cobalt	GWC-3A	FALSE	0.17%
Total Cobalt	GWC-4	FALSE	0.17%
Total Cobalt	GWC-5	FALSE	0.17%
Total Cobalt	GWC-6	FALSE	0.17%
Total Cobalt	GWC-7	FALSE	0.17%
Total Cobalt	GWC-9	FALSE	0.17%
Total Cobalt	GWC-11	FALSE	0.17%
Total Cobalt	GWC-12	FALSE	0.17%
Total Cobalt	GWC-12A	FALSE	0.17%
Total Cobalt	GWC-14	TRUE	0.17%
Total Cobalt	GWC-15	FALSE	0.17%
Total Cobalt	GWC-17	FALSE	0.17%
Total Cobalt	GWC-18	FALSE	0.17%
Total Cobalt	GWC-19R	FALSE	0.17%
Total Cobalt	GWC-4A	FALSE	0.17%
Total Cobalt	GWC-14A	TRUE	0.17%
Total Cobalt	GWC-8	FALSE	0.17%
Total Cobalt	GWC-8A	FALSE	0.17%
Total Cobalt	GWC-24	FALSE	0.17%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Cobalt	GWC-16A	FALSE	0.17%
Total Nickel	GWA-1A	FALSE	1%
Total Nickel	GWA-3	FALSE	1%
Total Nickel	GWC-10	FALSE	1%
Total Nickel	GWC-10A	FALSE	1%
Total Nickel	GWC-13	FALSE	1%
Total Nickel	GWC-2	FALSE	1%
Total Nickel	GWC-22	FALSE	1%
Total Nickel	GWC-23	FALSE	1%
Total Nickel	GWC-23A	FALSE	1%
Total Nickel	GWC-3	FALSE	1%
Total Nickel	GWC-3A	FALSE	1%
Total Nickel	GWC-4	FALSE	1%
Total Nickel	GWC-5	FALSE	1%
Total Nickel	GWC-6	FALSE	1%
Total Nickel	GWC-7	FALSE	1%
Total Nickel	GWC-9	FALSE	1%
Total Nickel	GWC-11	FALSE	1%
Total Nickel	GWC-12	FALSE	1%
Total Nickel	GWC-12A	FALSE	1%
Total Nickel	GWC-14	FALSE	1%
Total Nickel	GWC-15	FALSE	1%
Total Nickel	GWC-17	FALSE	1%
Total Nickel	GWC-18	FALSE	1%
Total Nickel	GWC-19R	FALSE	1%
Total Nickel	GWC-4A	FALSE	1%
Total Nickel	GWC-14A	TRUE	1%
Total Nickel	GWC-8	FALSE	1%
Total Nickel	GWC-8A	FALSE	1%
Total Nickel	GWC-24	FALSE	1%
Total Nickel	GWC-16A	FALSE	1%
Total Nickel	GWA-1A	FALSE	0.17%
Total Nickel	GWA-3	FALSE	0.17%
Total Nickel	GWC-10	FALSE	0.17%
Total Nickel	GWC-10A	FALSE	0.17%
Total Nickel	GWC-13	FALSE	0.17%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
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4. Non-detects are replaced with 1/2 the detection limit.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-2	FALSE	0.17%
Total Nickel	GWC-22	FALSE	0.17%
Total Nickel	GWC-23	FALSE	0.17%
Total Nickel	GWC-23A	FALSE	0.17%
Total Nickel	GWC-3	FALSE	0.17%
Total Nickel	GWC-3A	FALSE	0.17%
Total Nickel	GWC-4	FALSE	0.17%
Total Nickel	GWC-5	FALSE	0.17%
Total Nickel	GWC-6	FALSE	0.17%
Total Nickel	GWC-7	FALSE	0.17%
Total Nickel	GWC-9	FALSE	0.17%
Total Nickel	GWC-11	FALSE	0.17%
Total Nickel	GWC-12	FALSE	0.17%
Total Nickel	GWC-12A	FALSE	0.17%
Total Nickel	GWC-14	FALSE	0.17%
Total Nickel	GWC-15	FALSE	0.17%
Total Nickel	GWC-17	FALSE	0.17%
Total Nickel	GWC-18	FALSE	0.17%
Total Nickel	GWC-19R	FALSE	0.17%
Total Nickel	GWC-4A	FALSE	0.17%
Total Nickel	GWC-14A	TRUE	0.17%
Total Nickel	GWC-8	FALSE	0.17%
Total Nickel	GWC-8A	FALSE	0.17%
Total Nickel	GWC-24	FALSE	0.17%
Total Nickel	GWC-16A	FALSE	0.17%
Total Zinc	GWA-1A	FALSE	1%
Total Zinc	GWA-3	FALSE	1%
Total Zinc	GWC-10	FALSE	1%
Total Zinc	GWC-10A	FALSE	1%
Total Zinc	GWC-13	FALSE	1%
Total Zinc	GWC-2	FALSE	1%
Total Zinc	GWC-22	FALSE	1%
Total Zinc	GWC-23	FALSE	1%
Total Zinc	GWC-23A	FALSE	1%
Total Zinc	GWC-3	FALSE	1%
Total Zinc	GWC-3A	FALSE	1%

Notes:
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3. K-W detects are screened for false positives with NPTI.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-4	FALSE	1%
Total Zinc	GWC-5	FALSE	1%
Total Zinc	GWC-6	FALSE	1%
Total Zinc	GWC-7	FALSE	1%
Total Zinc	GWC-9	TRUE	1%
Total Zinc	GWC-11	FALSE	1%
Total Zinc	GWC-12	FALSE	1%
Total Zinc	GWC-12A	FALSE	1%
Total Zinc	GWC-14	FALSE	1%
Total Zinc	GWC-15	FALSE	1%
Total Zinc	GWC-17	FALSE	1%
Total Zinc	GWC-18	FALSE	1%
Total Zinc	GWC-19R	FALSE	1%
Total Zinc	GWC-4A	FALSE	1%
Total Zinc	GWC-14A	FALSE	1%
Total Zinc	GWC-8	FALSE	1%
Total Zinc	GWC-8A	FALSE	1%
Total Zinc	GWC-24	FALSE	1%
Total Zinc	GWC-16A	FALSE	1%
Total Zinc	GWA-1A	FALSE	0.17%
Total Zinc	GWA-3	FALSE	0.17%
Total Zinc	GWC-10	FALSE	0.17%
Total Zinc	GWC-10A	FALSE	0.17%
Total Zinc	GWC-13	FALSE	0.17%
Total Zinc	GWC-2	FALSE	0.17%
Total Zinc	GWC-22	FALSE	0.17%
Total Zinc	GWC-23	FALSE	0.17%
Total Zinc	GWC-23A	FALSE	0.17%
Total Zinc	GWC-3	FALSE	0.17%
Total Zinc	GWC-3A	FALSE	0.17%
Total Zinc	GWC-4	FALSE	0.17%
Total Zinc	GWC-5	FALSE	0.17%
Total Zinc	GWC-6	FALSE	0.17%
Total Zinc	GWC-7	FALSE	0.17%
Total Zinc	GWC-9	FALSE	0.17%
Total Zinc	GWC-11	FALSE	0.17%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-12	FALSE	0.17%
Total Zinc	GWC-12A	FALSE	0.17%
Total Zinc	GWC-14	FALSE	0.17%
Total Zinc	GWC-15	FALSE	0.17%
Total Zinc	GWC-17	FALSE	0.17%
Total Zinc	GWC-18	FALSE	0.17%
Total Zinc	GWC-19R	FALSE	0.17%
Total Zinc	GWC-4A	FALSE	0.17%
Total Zinc	GWC-14A	FALSE	0.17%
Total Zinc	GWC-8	FALSE	0.17%
Total Zinc	GWC-8A	FALSE	0.17%
Total Zinc	GWC-24	FALSE	0.17%
Total Zinc	GWC-16A	FALSE	0.17%
Trichloroethene	GWA-3	FALSE	1%
Trichloroethene	GWC-10	FALSE	1%
Trichloroethene	GWC-10A	FALSE	1%
Trichloroethene	GWC-13	FALSE	1%
Trichloroethene	GWC-2	FALSE	1%
Trichloroethene	GWC-22	FALSE	1%
Trichloroethene	GWC-23	FALSE	1%
Trichloroethene	GWC-23A	FALSE	1%
Trichloroethene	GWC-3	FALSE	1%
Trichloroethene	GWC-3A	FALSE	1%
Trichloroethene	GWC-4	FALSE	1%
Trichloroethene	GWC-5	FALSE	1%
Trichloroethene	GWC-6	FALSE	1%
Trichloroethene	GWC-7	FALSE	1%
Trichloroethene	GWC-9	FALSE	1%
Trichloroethene	GWA-1A	FALSE	1%
Trichloroethene	GWC-11	FALSE	1%
Trichloroethene	GWC-12	FALSE	1%
Trichloroethene	GWC-12A	FALSE	1%
Trichloroethene	GWC-14	FALSE	1%
Trichloroethene	GWC-24	FALSE	1%
Trichloroethene	GWC-15	TRUE	1%
Trichloroethene	GWC-17	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.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-18	TRUE	1%
Trichloroethene	GWC-19R	FALSE	1%
Trichloroethene	GWC-14A	TRUE	1%
Trichloroethene	GWC-14R	TRUE	1%
Trichloroethene	GWC-4A	FALSE	1%
Trichloroethene	GWC-8	FALSE	1%
Trichloroethene	GWC-8A	FALSE	1%
Trichloroethene	GWC-8R	TRUE	1%
Trichloroethene	GWC-16A	FALSE	1%
Trichloroethene	GWA-3	FALSE	0.16%
Trichloroethene	GWC-10	FALSE	0.16%
Trichloroethene	GWC-10A	FALSE	0.16%
Trichloroethene	GWC-13	FALSE	0.16%
Trichloroethene	GWC-2	FALSE	0.16%
Trichloroethene	GWC-22	FALSE	0.16%
Trichloroethene	GWC-23	FALSE	0.16%
Trichloroethene	GWC-23A	FALSE	0.16%
Trichloroethene	GWC-3	FALSE	0.16%
Trichloroethene	GWC-3A	FALSE	0.16%
Trichloroethene	GWC-4	FALSE	0.16%
Trichloroethene	GWC-5	FALSE	0.16%
Trichloroethene	GWC-6	FALSE	0.16%
Trichloroethene	GWC-7	FALSE	0.16%
Trichloroethene	GWC-9	FALSE	0.16%
Trichloroethene	GWA-1A	FALSE	0.16%
Trichloroethene	GWC-11	FALSE	0.16%
Trichloroethene	GWC-12	FALSE	0.16%
Trichloroethene	GWC-12A	FALSE	0.16%
Trichloroethene	GWC-14	FALSE	0.16%
Trichloroethene	GWC-24	FALSE	0.16%
Trichloroethene	GWC-15	FALSE	0.16%
Trichloroethene	GWC-17	FALSE	0.16%
Trichloroethene	GWC-18	FALSE	0.16%
Trichloroethene	GWC-19R	FALSE	0.16%
Trichloroethene	GWC-14A	TRUE	0.16%
Trichloroethene	GWC-14R	TRUE	0.16%

Notes:
1. Original data are not transformed.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-4A	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%
Vinyl chloride	GWA-3	FALSE	1%
Vinyl chloride	GWC-10	FALSE	1%
Vinyl chloride	GWC-10A	FALSE	1%
Vinyl chloride	GWC-13	FALSE	1%
Vinyl chloride	GWC-2	FALSE	1%
Vinyl chloride	GWC-22	FALSE	1%
Vinyl chloride	GWC-23	FALSE	1%
Vinyl chloride	GWC-23A	FALSE	1%
Vinyl chloride	GWC-3	FALSE	1%
Vinyl chloride	GWC-3A	FALSE	1%
Vinyl chloride	GWC-4	FALSE	1%
Vinyl chloride	GWC-5	FALSE	1%
Vinyl chloride	GWC-6	FALSE	1%
Vinyl chloride	GWC-7	FALSE	1%
Vinyl chloride	GWC-9	FALSE	1%
Vinyl chloride	GWA-1A	FALSE	1%
Vinyl chloride	GWC-11	FALSE	1%
Vinyl chloride	GWC-12	FALSE	1%
Vinyl chloride	GWC-12A	FALSE	1%
Vinyl chloride	GWC-14	FALSE	1%
Vinyl chloride	GWC-24	FALSE	1%
Vinyl chloride	GWC-15	FALSE	1%
Vinyl chloride	GWC-17	FALSE	1%
Vinyl chloride	GWC-18	FALSE	1%
Vinyl chloride	GWC-19R	FALSE	1%
Vinyl chloride	GWC-14A	TRUE	1%
Vinyl chloride	GWC-14R	FALSE	1%
Vinyl chloride	GWC-4A	FALSE	1%
Vinyl chloride	GWC-8	FALSE	1%
Vinyl chloride	GWC-8A	FALSE	1%
Vinyl chloride	GWC-8R	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.
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Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Kruskal-Wallis Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-16A	FALSE	1%
Vinyl chloride	GWA-3	FALSE	0.16%
Vinyl chloride	GWC-10	FALSE	0.16%
Vinyl chloride	GWC-10A	FALSE	0.16%
Vinyl chloride	GWC-13	FALSE	0.16%
Vinyl chloride	GWC-2	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-3	FALSE	0.16%
Vinyl chloride	GWC-3A	FALSE	0.16%
Vinyl chloride	GWC-4	FALSE	0.16%
Vinyl chloride	GWC-5	FALSE	0.16%
Vinyl chloride	GWC-6	FALSE	0.16%
Vinyl chloride	GWC-7	FALSE	0.16%
Vinyl chloride	GWC-9	FALSE	0.16%
Vinyl chloride	GWA-1A	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-14	FALSE	0.16%
Vinyl chloride	GWC-24	FALSE	0.16%
Vinyl chloride	GWC-15	FALSE	0.16%
Vinyl chloride	GWC-17	FALSE	0.16%
Vinyl chloride	GWC-18	FALSE	0.16%
Vinyl chloride	GWC-19R	FALSE	0.16%
Vinyl chloride	GWC-14A	TRUE	0.16%
Vinyl chloride	GWC-14R	FALSE	0.16%
Vinyl chloride	GWC-4A	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%

Notes:
1. Original data are not transformed.
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3. K-W detects are screened for false positives with NPTI.
4. Non-detects are replaced with 1/2 the detection limit.

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<1	59.5
	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/9/2016	ND<1	59.5
	6/14/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			
PH1-GWA-4	12/11/2013	ND<1	59.5
	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/12/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/11/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			

Background Rank Sum = 1428
Background Rank Mean = 59.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/9/2013	ND<1	59.5
	6/12/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/9/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/13/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/17/2018	ND<1	59.5

	6/13/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			
PH1-GWB-1	12/10/2013	ND<1	59.5
	6/9/2014	ND<1	59.5
	12/9/2014	ND<1	59.5
	6/22/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/12/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/11/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			
PH1-GWC-1	12/10/2013	ND<1	59.5
	6/12/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/15/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/19/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			
PH1-GWC-4	12/10/2013	ND<1	59.5
	6/11/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/7/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/19/2018	ND<1	59.5
	6/13/2019	ND<1	59.5
Rank Sum = 714			
Rank Mean = 59.5			
PH1-GWA-1	12/11/2013	ND<1	59.5
	6/9/2014	ND<1	59.5
	12/10/2014	ND<1	59.5
	6/23/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/13/2017	ND<1	59.5

	12/13/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/10/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

PH1-GWA-1A	12/11/2013	ND<1	59.5
	6/10/2014	ND<1	59.5
	12/8/2014	ND<1	59.5
	6/23/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/14/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/12/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/10/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

PH1-GWA-2	12/11/2013	2.3	123
	6/9/2014	2	119
	12/10/2014	2	120
	6/22/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/7/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/13/2017	ND<1	59.5
	6/18/2018	ND<1	59.5
	12/18/2018	ND<1	59.5
	6/11/2019	ND<1	59.5

Rank Sum = 897.5
Rank Mean = 74.7917

PH1-GWB-2	12/11/2013	ND<1	59.5
	6/9/2014	ND<1	59.5
	12/11/2014	ND<1	59.5
	6/24/2015	ND<1	59.5
	12/8/2015	ND<1	59.5
	6/13/2016	ND<1	59.5
	12/8/2016	ND<1	59.5
	6/15/2017	ND<1	59.5
	12/11/2017	ND<1	59.5
	6/19/2018	ND<1	59.5
	12/17/2018	ND<1	59.5
	6/12/2019	ND<1	59.5

Rank Sum = 714
Rank Mean = 59.5

PH1-GWC-2	12/11/2013	3.2	146
	6/10/2014	3.4	151
	12/11/2014	3.5	153
	6/23/2015	3	141
	12/8/2015	3.7	156

	6/14/2016	3.1	145
	12/7/2016	3.2	147
	6/13/2017	3	142
	12/13/2017	3.4	152
	6/19/2018	ND<1	59.5
	12/18/2018	2.8	139
	6/10/2019	3	143

Rank Sum = 1674.5
Rank Mean = 139.542

PH1-GWC-3	12/11/2013	2.4	126
	6/10/2014	2.1	122
	12/10/2014	2.3	124
	6/24/2015	2.4	127
	12/9/2015	2.7	133
	6/16/2016	3.3	149
	12/8/2016	3.6	154
	6/13/2017	2.7	134
	12/12/2017	3.6	155
	6/19/2018	3.2	148
	12/18/2018	2.7	135
	6/10/2019	3.3	150

Rank Sum = 1657
Rank Mean = 138.083

PH1-GWC-3A	12/11/2013	2.7	136
	6/10/2014	2.7	137
	12/10/2014	3	144
	6/24/2015	2.4	128
	12/9/2015	2.6	130
	6/16/2016	2.7	138
	12/8/2016	2.8	140
	6/13/2017	2	121
	12/12/2017	2.6	131
	6/19/2018	2.6	132
	12/18/2018	2.3	125
	6/10/2019	2.5	129

Rank Sum = 1591
Rank Mean = 132.583

Calculation Results:

Kruskal-Wallis H Statistic = 79.1613
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 139.558
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
79.1613 > 19.6752 indicating a significant group difference at 5% significance level
139.558 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 59.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	59.5	0	37.1578
PH1-GWB-1	59.5	0	37.1578
PH1-GWC-1	59.5	0	37.1578
PH1-GWC-4	59.5	0	37.1578

PH1-GWA-1	59.5	0	37.1578
PH1-GWA-1A	59.5	0	37.1578
PH1-GWA-2	74.7917	15.2917	37.1578
PH1-GWB-2	59.5	0	37.1578
PH1-GWC-2	**139.542**	**80.0417**	**37.1578**
PH1-GWC-3	**138.083**	**78.5833**	**37.1578**
PH1-GWC-3A	**132.583**	**73.0833**	**37.1578**

Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209

Mean background rank is 59.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	59.5	0	42.3608
PH1-GWB-1	59.5	0	42.3608
PH1-GWC-1	59.5	0	42.3608
PH1-GWC-4	59.5	0	42.3608
PH1-GWA-1	59.5	0	42.3608
PH1-GWA-1A	59.5	0	42.3608
PH1-GWA-2	74.7917	15.2917	42.3608
PH1-GWB-2	59.5	0	42.3608
PH1-GWC-2	**139.542**	**80.0417**	**42.3608**
PH1-GWC-3	**138.083**	**78.5833**	**42.3608**
PH1-GWC-3A	**132.583**	**73.0833**	**42.3608**

Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<1	49
	6/9/2014	ND<1	49
	12/11/2014	ND<1	49
	6/22/2015	ND<1	49
	12/7/2015	ND<1	49
	6/13/2016	ND<1	49
	12/9/2016	ND<1	49
	6/14/2017	ND<1	49
	12/11/2017	ND<1	49
	6/18/2018	ND<1	49
	12/17/2018	ND<1	49
	6/13/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWA-4	12/11/2013	ND<1	49
	6/9/2014	ND<1	49
	12/11/2014	ND<1	49
	6/22/2015	ND<1	49
	12/8/2015	ND<1	49
	6/13/2016	ND<1	49
	12/7/2016	ND<1	49
	6/15/2017	ND<1	49
	12/12/2017	ND<1	49
	6/18/2018	ND<1	49
	12/18/2018	ND<1	49
	6/11/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			

Background Rank Sum = 1176

Background Rank Mean = 49

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/9/2013	ND<1	49
	6/12/2014	ND<1	49
	12/11/2014	ND<1	49
	6/24/2015	ND<1	49
	12/9/2015	ND<1	49
	6/14/2016	ND<1	49
	12/8/2016	ND<1	49
	6/13/2017	ND<1	49
	12/13/2017	ND<1	49
	6/19/2018	ND<1	49
	12/17/2018	ND<1	49

	6/13/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWB-1	12/10/2013	ND<1	49
	6/9/2014	ND<1	49
	12/9/2014	ND<1	49
	6/22/2015	ND<1	49
	12/7/2015	ND<1	49
	6/13/2016	ND<1	49
	12/7/2016	ND<1	49
	6/15/2017	ND<1	49
	12/12/2017	ND<1	49
	6/18/2018	ND<1	49
	12/17/2018	ND<1	49
	6/11/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWC-1	12/10/2013	ND<1	49
	6/12/2014	ND<1	49
	12/11/2014	ND<1	49
	6/24/2015	ND<1	49
	12/8/2015	ND<1	49
	6/15/2016	ND<1	49
	12/8/2016	ND<1	49
	6/15/2017	ND<1	49
	12/11/2017	ND<1	49
	6/19/2018	ND<1	49
	12/19/2018	ND<1	49
	6/13/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWC-4	12/10/2013	ND<1	49
	6/11/2014	ND<1	49
	12/11/2014	ND<1	49
	6/24/2015	ND<1	49
	12/7/2015	ND<1	49
	6/13/2016	ND<1	49
	12/8/2016	ND<1	49
	6/15/2017	ND<1	49
	12/11/2017	ND<1	49
	6/19/2018	ND<1	49
	12/19/2018	ND<1	49
	6/13/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWA-1	12/11/2013	8.7	121
	6/9/2014	4.2	110
	12/10/2014	9	123
	6/23/2015	7.5	116
	12/8/2015	8	117
	6/14/2016	8.3	120
	12/7/2016	5	112
	6/13/2017	5.2	114

	12/13/2017	3.5	109
	6/19/2018	3.1	106
	12/18/2018	2.4	103
	6/10/2019	5.2	115
Rank Sum = 1366			
Rank Mean = 113.833			
PH1-GWA-1A	12/11/2013	ND<1	49
	6/10/2014	ND<1	49
	12/8/2014	ND<1	49
	6/23/2015	ND<1	49
	12/8/2015	ND<1	49
	6/14/2016	ND<1	49
	12/7/2016	ND<1	49
	6/12/2017	ND<1	49
	12/13/2017	ND<1	49
	6/19/2018	ND<1	49
	12/18/2018	ND<1	49
	6/10/2019	ND<1	49
Rank Sum = 588			
Rank Mean = 49			
PH1-GWA-2	12/11/2013	81	155
	6/9/2014	81	156
	12/10/2014	73	154
	6/22/2015	53	150
	12/8/2015	21	145
	6/13/2016	32	147
	12/7/2016	70	153
	6/15/2017	49	149
	12/13/2017	64	152
	6/18/2018	46	148
	12/18/2018	55	151
	6/11/2019	26	146
Rank Sum = 1806			
Rank Mean = 150.5			
PH1-GWB-2	12/11/2013	ND<1	49
	6/9/2014	ND<1	49
	12/11/2014	ND<1	49
	6/24/2015	ND<1	49
	12/8/2015	ND<1	49
	6/13/2016	ND<1	49
	12/8/2016	ND<1	49
	6/15/2017	ND<1	49
	12/11/2017	ND<1	49
	6/19/2018	ND<1	49
	12/17/2018	2.6	105
	6/12/2019	ND<1	49
Rank Sum = 644			
Rank Mean = 53.6667			
PH1-GWC-2	12/11/2013	ND<1	49
	6/10/2014	ND<1	49
	12/11/2014	2	98
	6/23/2015	2	99
	12/8/2015	2.5	104

	6/14/2016	2.2	100
	12/7/2016	2.3	102
	6/13/2017	4.4	111
	12/13/2017	3.1	107
	6/19/2018	2.2	101
	12/18/2018	3.3	108
	6/10/2019	5.1	113

Rank Sum = 1141
Rank Mean = 95.0833

PH1-GWC-3	12/11/2013	8	118
	6/10/2014	8.1	119
	12/10/2014	9	124
	6/24/2015	11	131
	12/9/2015	13	137
	6/16/2016	15	139
	12/8/2016	15	140
	6/13/2017	14	138
	12/12/2017	15	141
	6/19/2018	15	142
	12/18/2018	15	143
	6/10/2019	19	144

Rank Sum = 1616
Rank Mean = 134.667

PH1-GWC-3A	12/11/2013	10	128
	6/10/2014	8.9	122
	12/10/2014	11	132
	6/24/2015	9.3	126
	12/9/2015	10	129
	6/16/2016	9.9	127
	12/8/2016	11	133
	6/13/2017	11	134
	12/12/2017	10	130
	6/19/2018	12	136
	12/18/2018	9.2	125
	6/10/2019	11	135

Rank Sum = 1557
Rank Mean = 129.75

Calculation Results:

Kruskal-Wallis H Statistic = 112.869
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 148.588
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
112.869 > 19.6752 indicating a significant group difference at 5% significance level
148.588 > 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 49

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	49	0	37.1578
PH1-GWB-1	49	0	37.1578
PH1-GWC-1	49	0	37.1578
PH1-GWC-4	49	0	37.1578

PH1-GWA-1	**113.833**	**64.8333**	**37.1578**
PH1-GWA-1A	49	0	37.1578
PH1-GWA-2	**150.5**	**101.5**	**37.1578**
PH1-GWB-2	53.6667	4.66667	37.1578
PH1-GWC-2	**95.0833**	**46.0833**	**37.1578**
PH1-GWC-3	**134.667**	**85.6667**	**37.1578**
PH1-GWC-3A	**129.75**	**80.75**	**37.1578**

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 49

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	49	0	42.3608
PH1-GWB-1	49	0	42.3608
PH1-GWC-1	49	0	42.3608
PH1-GWC-4	49	0	42.3608
PH1-GWA-1	**113.833**	**64.8333**	**42.3608**
PH1-GWA-1A	49	0	42.3608
PH1-GWA-2	**150.5**	**101.5**	**42.3608**
PH1-GWB-2	53.6667	4.66667	42.3608
PH1-GWC-2	**95.0833**	**46.0833**	**42.3608**
PH1-GWC-3	**134.667**	**85.6667**	**42.3608**
PH1-GWC-3A	**129.75**	**80.75**	**42.3608**

Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<1	56.5
	6/9/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/22/2015	ND<1	56.5
	12/7/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/9/2016	ND<1	56.5
	6/14/2017	ND<1	56.5
	12/11/2017	ND<1	56.5
	6/18/2018	ND<1	56.5
	12/17/2018	ND<1	56.5
	6/13/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			
PH1-GWA-4	12/11/2013	ND<1	56.5
	6/9/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/22/2015	ND<1	56.5
	12/8/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/7/2016	ND<1	56.5
	6/15/2017	ND<1	56.5
	12/12/2017	ND<1	56.5
	6/18/2018	ND<1	56.5
	12/18/2018	ND<1	56.5
	6/11/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			

Background Rank Sum = 1356
Background Rank Mean = 56.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/9/2013	ND<1	56.5
	6/12/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/24/2015	ND<1	56.5
	12/9/2015	ND<1	56.5
	6/14/2016	ND<1	56.5
	12/8/2016	ND<1	56.5
	6/13/2017	ND<1	56.5
	12/13/2017	ND<1	56.5
	6/19/2018	ND<1	56.5
	12/17/2018	ND<1	56.5

	6/13/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			
PH1-GWB-1	12/10/2013	ND<1	56.5
	6/9/2014	ND<1	56.5
	12/9/2014	ND<1	56.5
	6/22/2015	ND<1	56.5
	12/7/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/7/2016	ND<1	56.5
	6/15/2017	ND<1	56.5
	12/12/2017	ND<1	56.5
	6/18/2018	ND<1	56.5
	12/17/2018	ND<1	56.5
	6/11/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			
PH1-GWC-1	12/10/2013	ND<1	56.5
	6/12/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/24/2015	ND<1	56.5
	12/8/2015	ND<1	56.5
	6/15/2016	ND<1	56.5
	12/8/2016	ND<1	56.5
	6/15/2017	ND<1	56.5
	12/11/2017	ND<1	56.5
	6/19/2018	ND<1	56.5
	12/19/2018	ND<1	56.5
	6/13/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			
PH1-GWC-4	12/10/2013	ND<1	56.5
	6/11/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/24/2015	ND<1	56.5
	12/7/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/8/2016	ND<1	56.5
	6/15/2017	ND<1	56.5
	12/11/2017	ND<1	56.5
	6/19/2018	ND<1	56.5
	12/19/2018	ND<1	56.5
	6/13/2019	ND<1	56.5
Rank Sum = 678			
Rank Mean = 56.5			
PH1-GWA-1	12/11/2013	ND<1	56.5
	6/9/2014	2.3	115
	12/10/2014	ND<1	56.5
	6/23/2015	ND<1	56.5
	12/8/2015	ND<1	56.5
	6/14/2016	ND<1	56.5
	12/7/2016	ND<1	56.5
	6/13/2017	ND<1	56.5

	12/13/2017	ND<1	56.5
	6/19/2018	2.1	113
	12/18/2018	ND<1	56.5
	6/10/2019	ND<1	56.5

Rank Sum = 793
Rank Mean = 66.0833

PH1-GWA-1A	12/11/2013	ND<1	56.5
	6/10/2014	ND<1	56.5
	12/8/2014	ND<1	56.5
	6/23/2015	ND<1	56.5
	12/8/2015	ND<1	56.5
	6/14/2016	ND<1	56.5
	12/7/2016	ND<1	56.5
	6/12/2017	ND<1	56.5
	12/13/2017	ND<1	56.5
	6/19/2018	ND<1	56.5
	12/18/2018	ND<1	56.5
	6/10/2019	ND<1	56.5

Rank Sum = 678
Rank Mean = 56.5

PH1-GWA-2	12/11/2013	3.2	117
	6/9/2014	5.4	130
	12/10/2014	4.8	125
	6/22/2015	3.5	118
	12/8/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/7/2016	3.7	119
	6/15/2017	2.1	114
	12/13/2017	2.3	116
	6/18/2018	ND<1	56.5
	12/18/2018	ND<1	56.5
	6/11/2019	ND<1	56.5

Rank Sum = 1121.5
Rank Mean = 93.4583

PH1-GWB-2	12/11/2013	ND<1	56.5
	6/9/2014	ND<1	56.5
	12/11/2014	ND<1	56.5
	6/24/2015	ND<1	56.5
	12/8/2015	ND<1	56.5
	6/13/2016	ND<1	56.5
	12/8/2016	ND<1	56.5
	6/15/2017	ND<1	56.5
	12/11/2017	ND<1	56.5
	6/19/2018	ND<1	56.5
	12/17/2018	ND<1	56.5
	6/12/2019	ND<1	56.5

Rank Sum = 678
Rank Mean = 56.5

PH1-GWC-2	12/11/2013	4.4	123
	6/10/2014	5.1	127
	12/11/2014	4.9	126
	6/23/2015	4.7	124
	12/8/2015	6.3	131

	6/14/2016	4	121
	12/7/2016	3.9	120
	6/13/2017	6.7	132
	12/13/2017	5.1	128
	6/19/2018	ND<1	56.5
	12/18/2018	5.1	129
	6/10/2019	4.2	122

Rank Sum = 1439.5
Rank Mean = 119.958

PH1-GWC-3	12/11/2013	8.2	134
	6/10/2014	11	147
	12/10/2014	8.5	136
	6/24/2015	8.7	139
	12/9/2015	12	153
	6/16/2016	8.4	135
	12/8/2016	12	154
	6/13/2017	11	148
	12/12/2017	13	155
	6/19/2018	11	149
	12/18/2018	10	144
	6/10/2019	11	150

Rank Sum = 1744
Rank Mean = 145.333

PH1-GWC-3A	12/11/2013	9.7	143
	6/10/2014	13	156
	12/10/2014	11	151
	6/24/2015	8.5	137
	12/9/2015	10	145
	6/16/2016	6.7	133
	12/8/2016	8.6	138
	6/13/2017	8.9	142
	12/12/2017	10	146
	6/19/2018	11	152
	12/18/2018	8.7	140
	6/10/2019	8.8	141

Rank Sum = 1724
Rank Mean = 143.667

Calculation Results:

Kruskal-Wallis H Statistic = 86.323
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 137.032
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
86.323 > 19.6752 indicating a significant group difference at 5% significance level
137.032 > 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 56.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	56.5	0	37.1578
PH1-GWB-1	56.5	0	37.1578
PH1-GWC-1	56.5	0	37.1578
PH1-GWC-4	56.5	0	37.1578

PH1-GWA-1	66.0833	9.58333	37.1578
PH1-GWA-1A	56.5	0	37.1578
PH1-GWA-2	93.4583	36.9583	37.1578
PH1-GWB-2	56.5	0	37.1578
PH1-GWC-2	**119.958**	**63.4583**	**37.1578**
PH1-GWC-3	**145.333**	**88.8333**	**37.1578**
PH1-GWC-3A	**143.667**	**87.1667**	**37.1578**

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 56.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	56.5	0	42.3608
PH1-GWB-1	56.5	0	42.3608
PH1-GWC-1	56.5	0	42.3608
PH1-GWC-4	56.5	0	42.3608
PH1-GWA-1	66.0833	9.58333	42.3608
PH1-GWA-1A	56.5	0	42.3608
PH1-GWA-2	93.4583	36.9583	42.3608
PH1-GWB-2	56.5	0	42.3608
PH1-GWC-2	**119.958**	**63.4583**	**42.3608**
PH1-GWC-3	**145.333**	**88.8333**	**42.3608**
PH1-GWC-3A	**143.667**	**87.1667**	**42.3608**

Kruskal-Wallis Non-Parametric Test

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<10	22.5
	6/9/2014	ND<10	22.5
	12/11/2014	ND<10	22.5
	6/22/2015	ND<10	22.5
	12/7/2015	ND<10	22.5
	6/13/2016	ND<10	22.5
	12/9/2016	20	45
	6/14/2017	ND<10	22.5
	12/11/2017	ND<10	22.5
	6/18/2018	ND<10	22.5
	12/17/2018	ND<10	22.5
	6/13/2019	ND<10	22.5

Rank Sum = 292.5

Rank Mean = 24.375

PH1-GWA-4	12/12/2013	ND<10	22.5
	6/10/2014	ND<10	22.5
	12/12/2014	ND<10	22.5
	6/23/2015	ND<10	22.5
	12/9/2015	ND<10	22.5
	6/14/2016	ND<10	22.5
	12/8/2016	ND<10	22.5
	6/16/2017	ND<10	22.5
	12/13/2017	37	99
	6/19/2018	ND<10	22.5
	12/19/2018	ND<10	22.5
	6/12/2019	ND<10	22.5

Rank Sum = 346.5

Rank Mean = 28.875

Background Rank Sum = 639

Background Rank Mean = 26.625

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	100	151
	6/13/2014	86	141
	12/12/2014	130	154
	6/25/2015	99	150
	12/10/2015	89	144
	6/15/2016	92	146
	12/9/2016	100	152
	6/14/2017	92	147
	12/14/2017	88	142
	6/20/2018	94	149
	12/18/2018	150	155

	6/13/2019	93	148

Rank Sum = 1779
Rank Mean = 148.25

PH1-GWA-1A	12/11/2013	24	55
	6/10/2014	45	110
	12/8/2014	27	71
	6/23/2015	29	81
	12/9/2015	30	86
	6/14/2016	37	100
	12/7/2016	21	47
	6/12/2017	24	56
	12/13/2017	27	72
	6/20/2018	25	63
	12/19/2018	27	73
	6/11/2019	24	57

Rank Sum = 871
Rank Mean = 72.5833

PH1-GWB-1	12/11/2013	79	131
	6/10/2014	66	123
	12/9/2014	72	126
	6/23/2015	78	130
	12/8/2015	75	128
	6/14/2016	84	138
	12/8/2016	75	129
	6/16/2017	52	115
	12/13/2017	54	117
	6/19/2018	62	122
	12/18/2018	53	116
	6/12/2019	82	136

Rank Sum = 1511
Rank Mean = 125.917

PH1-GWC-1	12/11/2013	34	93
	6/13/2014	27	74
	12/12/2014	33	92
	6/25/2015	58	120
	12/9/2015	41	106
	6/16/2016	54	118
	12/9/2016	70	125
	6/16/2017	40	104
	12/12/2017	38	101
	6/20/2018	42	108
	12/20/2018	47	111
	6/13/2019	50	112

Rank Sum = 1264
Rank Mean = 105.333

PH1-GWC-2	12/11/2013	ND<10	22.5
	6/11/2014	21	48
	12/11/2014	ND<10	22.5
	6/23/2015	ND<10	22.5
	12/8/2015	ND<10	22.5
	6/14/2016	ND<10	22.5
	12/7/2016	ND<10	22.5
	6/14/2017	51	113

	12/13/2017	ND<10	22.5
	6/19/2018	ND<10	22.5
	12/18/2018	26	66
	6/10/2019	39	103

Rank Sum = 510
Rank Mean = 42.5

PH1-GWC-4	12/11/2013	36	97
	6/12/2014	32	90
	12/12/2014	51	114
	6/25/2015	34	94
	12/8/2015	36	98
	6/14/2016	41	107
	12/9/2016	80	132
	6/16/2017	42	109
	12/12/2017	54	119
	6/20/2018	34	95
	12/20/2018	310	156
	6/13/2019	32	91

Rank Sum = 1302
Rank Mean = 108.5

PH1-GWA-1	12/12/2013	ND<10	22.5
	6/10/2014	ND<10	22.5
	12/11/2014	ND<10	22.5
	6/24/2015	21	49
	12/9/2015	ND<10	22.5
	6/15/2016	21	50
	12/8/2016	ND<10	22.5
	6/14/2017	21	51
	12/14/2017	20	46
	6/20/2018	34	96
	12/19/2018	24	58
	6/11/2019	24	59

Rank Sum = 521.5
Rank Mean = 43.4583

PH1-GWA-2	12/12/2013	67	124
	6/10/2014	90	145
	12/11/2014	88	143
	6/23/2015	82	137
	12/9/2015	74	127
	6/14/2016	85	140
	12/8/2016	110	153
	6/16/2017	80	133
	12/14/2017	80	134
	6/19/2018	61	121
	12/19/2018	81	135
	6/12/2019	84	139

Rank Sum = 1631
Rank Mean = 135.917

PH1-GWB-2	12/12/2013	ND<10	22.5
	6/10/2014	ND<10	22.5
	12/12/2014	ND<10	22.5
	6/25/2015	ND<10	22.5
	12/9/2015	29	82

	6/14/2016	28	78
	12/9/2016	26	67
	6/16/2017	ND<10	22.5
	12/12/2017	ND<10	22.5
	6/20/2018	ND<10	22.5
	12/18/2018	22	52
	6/13/2019	ND<10	22.5

Rank Sum = 459
Rank Mean = 38.25

PH1-GWC-3	12/12/2013	30	87
	6/11/2014	ND<10	22.5
	12/11/2014	38	102
	6/25/2015	25	64
	12/10/2015	25	65
	6/17/2016	24	60
	12/9/2016	28	79
	6/14/2017	26	68
	12/13/2017	27	75
	6/20/2018	23	53
	12/19/2018	27	76
	6/11/2019	30	88

Rank Sum = 839.5
Rank Mean = 69.9583

PH1-GWC-3A	12/12/2013	23	54
	6/11/2014	40	105
	12/11/2014	24	61
	6/25/2015	28	80
	12/10/2015	26	69
	6/17/2016	29	83
	12/9/2016	29	84
	6/14/2017	29	85
	12/13/2017	27	77
	6/28/2018	26	70
	12/19/2018	24	62
	6/11/2019	30	89

Rank Sum = 919
Rank Mean = 76.5833

Calculation Results:

Kruskal-Wallis H Statistic = 127.395
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 130.318
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
127.395 > 19.6752 indicating a significant group difference at 5% significance level
130.318 > 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 26.625

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	**148.25**	**121.625**	**37.1578**
PH1-GWA-1A	**72.5833**	**45.9583**	**37.1578**
PH1-GWB-1	**125.917**	**99.2917**	**37.1578**
PH1-GWC-1	**105.333**	**78.7083**	**37.1578**

PH1-GWC-2	42.5	15.875	37.1578
PH1-GWC-4	**108.5**	**81.875**	**37.1578**
PH1-GWA-1	43.4583	16.8333	37.1578
PH1-GWA-2	**135.917**	**109.292**	**37.1578**
PH1-GWB-2	38.25	11.625	37.1578
PH1-GWC-3	**69.9583**	**43.3333**	**37.1578**
PH1-GWC-3A	**76.5833**	**49.9583**	**37.1578**

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 26.625

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	**148.25**	**121.625**	**42.3608**
PH1-GWA-1A	**72.5833**	**45.9583**	**42.3608**
PH1-GWB-1	**125.917**	**99.2917**	**42.3608**
PH1-GWC-1	**105.333**	**78.7083**	**42.3608**
PH1-GWC-2	42.5	15.875	42.3608
PH1-GWC-4	**108.5**	**81.875**	**42.3608**
PH1-GWA-1	43.4583	16.8333	42.3608
PH1-GWA-2	**135.917**	**109.292**	**42.3608**
PH1-GWB-2	38.25	11.625	42.3608
PH1-GWC-3	**69.9583**	**43.3333**	**42.3608**
PH1-GWC-3A	**76.5833**	**49.9583**	**42.3608**

Kruskal-Wallis Non-Parametric Test

Parameter: Total Chromium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<5	75
	6/9/2014	ND<5	75
	12/11/2014	ND<5	75
	6/22/2015	ND<5	75
	12/7/2015	ND<5	75
	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
Rank Sum = 900			
Rank Mean = 75			
PH1-GWA-4	12/12/2013	ND<5	75
	6/10/2014	ND<5	75
	12/12/2014	ND<5	75
	6/23/2015	ND<5	75
	12/9/2015	ND<5	75
	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
Rank Sum = 900			
Rank Mean = 75			

Background Rank Sum = 1800
Background Rank Mean = 75

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	ND<5	75
	6/13/2014	ND<5	75
	12/12/2014	ND<5	75
	6/25/2015	ND<5	75
	12/10/2015	ND<5	75
	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
Rank Sum = 900			
Rank Mean = 75			
PH1-GWA-1A	12/11/2013	ND<5	75
	6/10/2014	ND<5	75
	12/8/2014	ND<5	75
	6/23/2015	ND<5	75
	12/9/2015	10	150
	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	151
Rank Sum = 1129			
Rank Mean = 94.0833			
PH1-GWB-1	12/11/2013	ND<5	75
	6/10/2014	ND<5	75
	12/9/2014	ND<5	75
	6/23/2015	ND<5	75
	12/8/2015	ND<5	75
	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
Rank Sum = 900			
Rank Mean = 75			
PH1-GWC-1	12/11/2013	ND<5	75
	6/13/2014	ND<5	75
	12/12/2014	ND<5	75
	6/25/2015	ND<5	75
	12/9/2015	ND<5	75
	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
Rank Sum = 900			
Rank Mean = 75			
PH1-GWC-2	12/11/2013	ND<5	75
	6/11/2014	ND<5	75
	12/11/2014	ND<5	75
	6/23/2015	ND<5	75
	12/8/2015	ND<5	75
	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	152
	12/18/2018	ND<5	75
	6/10/2019	69	155

Rank Sum = 1057
Rank Mean = 88.0833

PH1-GWC-4	12/11/2013	ND<5	75
	6/12/2014	ND<5	75
	12/12/2014	ND<5	75
	6/25/2015	ND<5	75
	12/8/2015	ND<5	75
	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

Rank Sum = 979
Rank Mean = 81.5833

PH1-GWA-1	12/12/2013	ND<5	75
	6/10/2014	ND<5	75
	12/11/2014	ND<5	75
	6/24/2015	ND<5	75
	12/9/2015	ND<5	75
	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

Rank Sum = 900
Rank Mean = 75

PH1-GWA-2	12/12/2013	ND<5	75
	6/10/2014	ND<5	75
	12/11/2014	74	156
	6/23/2015	ND<5	75
	12/9/2015	ND<5	75
	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

Rank Sum = 981
Rank Mean = 81.75

PH1-GWB-2	12/12/2013	ND<5	75
	6/10/2014	ND<5	75
	12/12/2014	ND<5	75
	6/25/2015	ND<5	75
	12/9/2015	ND<5	75

	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

Rank Sum = 900
Rank Mean = 75

PH1-GWC-3	12/12/2013	ND<5	75
	6/11/2014	ND<5	75
	12/11/2014	ND<5	75
	6/25/2015	ND<5	75
	12/10/2015	ND<5	75
	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

Rank Sum = 900
Rank Mean = 75

PH1-GWC-3A	12/12/2013	ND<5	75
	6/11/2014	ND<5	75
	12/11/2014	ND<5	75
	6/25/2015	ND<5	75
	12/10/2015	ND<5	75
	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

Rank Sum = 900
Rank Mean = 75

Calculation Results:

Kruskal-Wallis H Statistic = 2.73395
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 21.248
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
2.73395 < 19.6752 indicating no significant group difference at 5% significance level
21.248 > 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
GWC-1	75	0	37.1578
PH1-GWA-1A	94.0833	19.0833	37.1578
PH1-GWB-1	75	0	37.1578
PH1-GWC-1	75	0	37.1578

PH1-GWC-2	88.0833	13.0833	37.1578
PH1-GWC-4	81.5833	6.58333	37.1578
PH1-GWA-1	75	0	37.1578
PH1-GWA-2	81.75	6.75	37.1578
PH1-GWB-2	75	0	37.1578
PH1-GWC-3	75	0	37.1578
PH1-GWC-3A	75	0	37.1578

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
GWC-1	75	0	42.3608
PH1-GWA-1A	94.0833	19.0833	42.3608
PH1-GWB-1	75	0	42.3608
PH1-GWC-1	75	0	42.3608
PH1-GWC-2	88.0833	13.0833	42.3608
PH1-GWC-4	81.5833	6.58333	42.3608
PH1-GWA-1	75	0	42.3608
PH1-GWA-2	81.75	6.75	42.3608
PH1-GWB-2	75	0	42.3608
PH1-GWC-3	75	0	42.3608
PH1-GWC-3A	75	0	42.3608

Kruskal-Wallis Non-Parametric Test

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<20	72.5
	6/9/2014	ND<20	72.5
	12/11/2014	ND<20	72.5
	6/22/2015	ND<20	72.5
	12/7/2015	ND<20	72.5
	6/13/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/14/2017	ND<20	72.5
	12/11/2017	ND<20	72.5
	6/18/2018	ND<20	72.5
	12/17/2018	ND<20	72.5
	6/13/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWA-4	12/12/2013	ND<20	72.5
	6/10/2014	ND<20	72.5
	12/12/2014	ND<20	72.5
	6/23/2015	ND<20	72.5
	12/9/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/8/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/13/2017	ND<20	72.5
	6/19/2018	ND<20	72.5
	12/19/2018	ND<20	72.5
	6/12/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			

Background Rank Sum = 1740

Background Rank Mean = 72.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	ND<20	72.5
	6/13/2014	ND<20	72.5
	12/12/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/10/2015	ND<20	72.5
	6/15/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/14/2017	ND<20	72.5
	12/14/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/18/2018	ND<20	72.5

	6/13/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWA-1A	12/11/2013	ND<20	72.5
	6/10/2014	ND<20	72.5
	12/8/2014	ND<20	72.5
	6/23/2015	ND<20	72.5
	12/9/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/7/2016	ND<20	72.5
	6/12/2017	ND<20	72.5
	12/13/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/19/2018	ND<20	72.5
	6/11/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWB-1	12/11/2013	ND<20	72.5
	6/10/2014	ND<20	72.5
	12/9/2014	ND<20	72.5
	6/23/2015	ND<20	72.5
	12/8/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/8/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/13/2017	ND<20	72.5
	6/19/2018	ND<20	72.5
	12/18/2018	ND<20	72.5
	6/12/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWC-1	12/11/2013	ND<20	72.5
	6/13/2014	ND<20	72.5
	12/12/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/9/2015	ND<20	72.5
	6/16/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/12/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/20/2018	ND<20	72.5
	6/13/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWC-2	12/11/2013	ND<20	72.5
	6/11/2014	ND<20	72.5
	12/11/2014	ND<20	72.5
	6/23/2015	ND<20	72.5
	12/8/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/7/2016	ND<20	72.5
	6/14/2017	ND<20	72.5

	12/13/2017	ND<20	72.5
	6/19/2018	ND<20	72.5
	12/18/2018	ND<20	72.5
	6/10/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWC-4	12/11/2013	ND<20	72.5
	6/12/2014	ND<20	72.5
	12/12/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/8/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/12/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/20/2018	ND<20	72.5
	6/13/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWA-1	12/12/2013	84	148
	6/10/2014	92	150
	12/11/2014	96	153
	6/24/2015	120	156
	12/9/2015	95	152
	6/15/2016	110	155
	12/8/2016	94	151
	6/14/2017	100	154
	12/14/2017	76	146
	6/20/2018	75	145
	12/19/2018	82	147
	6/11/2019	91	149
Rank Sum = 1806			
Rank Mean = 150.5			
PH1-GWA-2	12/12/2013	ND<20	72.5
	6/10/2014	ND<20	72.5
	12/11/2014	ND<20	72.5
	6/23/2015	ND<20	72.5
	12/9/2015	ND<20	72.5
	6/14/2016	ND<20	72.5
	12/8/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/14/2017	ND<20	72.5
	6/19/2018	ND<20	72.5
	12/19/2018	ND<20	72.5
	6/12/2019	ND<20	72.5
Rank Sum = 870			
Rank Mean = 72.5			
PH1-GWB-2	12/12/2013	ND<20	72.5
	6/10/2014	ND<20	72.5
	12/12/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/9/2015	ND<20	72.5

	6/14/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/16/2017	ND<20	72.5
	12/12/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/18/2018	ND<20	72.5
	6/13/2019	ND<20	72.5

Rank Sum = 870
Rank Mean = 72.5

PH1-GWC-3	12/12/2013	ND<20	72.5
	6/11/2014	ND<20	72.5
	12/11/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/10/2015	ND<20	72.5
	6/17/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/14/2017	ND<20	72.5
	12/13/2017	ND<20	72.5
	6/20/2018	ND<20	72.5
	12/19/2018	ND<20	72.5
	6/11/2019	ND<20	72.5

Rank Sum = 870
Rank Mean = 72.5

PH1-GWC-3A	12/12/2013	ND<20	72.5
	6/11/2014	ND<20	72.5
	12/11/2014	ND<20	72.5
	6/25/2015	ND<20	72.5
	12/10/2015	ND<20	72.5
	6/17/2016	ND<20	72.5
	12/9/2016	ND<20	72.5
	6/14/2017	ND<20	72.5
	12/13/2017	ND<20	72.5
	6/28/2018	ND<20	72.5
	12/19/2018	ND<20	72.5
	6/11/2019	ND<20	72.5

Rank Sum = 870
Rank Mean = 72.5

Calculation Results:

Kruskal-Wallis H Statistic = 33.0191
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 154.672
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
33.0191 > 19.6752 indicating a significant group difference at 5% significance level
154.672 > 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 72.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	72.5	0	37.1578
PH1-GWA-1A	72.5	0	37.1578
PH1-GWB-1	72.5	0	37.1578
PH1-GWC-1	72.5	0	37.1578

PH1-GWC-2	72.5	0	37.1578
PH1-GWC-4	72.5	0	37.1578
PH1-GWA-1	**150.5**	**78**	**37.1578**
PH1-GWA-2	72.5	0	37.1578
PH1-GWB-2	72.5	0	37.1578
PH1-GWC-3	72.5	0	37.1578
PH1-GWC-3A	72.5	0	37.1578

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 72.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	72.5	0	42.3608
PH1-GWA-1A	72.5	0	42.3608
PH1-GWB-1	72.5	0	42.3608
PH1-GWC-1	72.5	0	42.3608
PH1-GWC-2	72.5	0	42.3608
PH1-GWC-4	72.5	0	42.3608
PH1-GWA-1	**150.5**	**78**	**42.3608**
PH1-GWA-2	72.5	0	42.3608
PH1-GWB-2	72.5	0	42.3608
PH1-GWC-3	72.5	0	42.3608
PH1-GWC-3A	72.5	0	42.3608

Kruskal-Wallis Non-Parametric Test

Parameter: Total Nickel

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<10	77
	6/9/2014	ND<10	77
	12/11/2014	ND<10	77
	6/22/2015	ND<10	77
	12/7/2015	ND<10	77
	6/13/2016	ND<10	77
	12/9/2016	ND<10	77
	6/14/2017	ND<10	77
	12/11/2017	ND<10	77
	6/18/2018	ND<10	77
	12/17/2018	ND<10	77
	6/13/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			
PH1-GWA-4	12/12/2013	ND<10	77
	6/10/2014	ND<10	77
	12/12/2014	ND<10	77
	6/23/2015	ND<10	77
	12/9/2015	ND<10	77
	6/14/2016	ND<10	77
	12/8/2016	ND<10	77
	6/16/2017	ND<10	77
	12/13/2017	ND<10	77
	6/19/2018	ND<10	77
	12/19/2018	ND<10	77
	6/12/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			

Background Rank Sum = 1848
Background Rank Mean = 77

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	ND<10	77
	6/13/2014	ND<10	77
	12/12/2014	ND<10	77
	6/25/2015	ND<10	77
	12/10/2015	ND<10	77
	6/15/2016	ND<10	77
	12/9/2016	ND<10	77
	6/14/2017	ND<10	77
	12/14/2017	ND<10	77
	6/20/2018	ND<10	77
	12/18/2018	ND<10	77

	6/13/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			
PH1-GWA-1A	12/11/2013	ND<10	77
	6/10/2014	ND<10	77
	12/8/2014	ND<10	77
	6/23/2015	ND<10	77
	12/9/2015	ND<10	77
	6/14/2016	ND<10	77
	12/7/2016	ND<10	77
	6/12/2017	ND<10	77
	12/13/2017	ND<10	77
	6/20/2018	ND<10	77
	12/19/2018	ND<10	77
	6/11/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			
PH1-GWB-1	12/11/2013	ND<10	77
	6/10/2014	ND<10	77
	12/9/2014	ND<10	77
	6/23/2015	ND<10	77
	12/8/2015	ND<10	77
	6/14/2016	ND<10	77
	12/8/2016	ND<10	77
	6/16/2017	ND<10	77
	12/13/2017	ND<10	77
	6/19/2018	ND<10	77
	12/18/2018	ND<10	77
	6/12/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			
PH1-GWC-1	12/11/2013	ND<10	77
	6/13/2014	ND<10	77
	12/12/2014	ND<10	77
	6/25/2015	ND<10	77
	12/9/2015	ND<10	77
	6/16/2016	ND<10	77
	12/9/2016	ND<10	77
	6/16/2017	ND<10	77
	12/12/2017	ND<10	77
	6/20/2018	ND<10	77
	12/20/2018	ND<10	77
	6/13/2019	ND<10	77
Rank Sum = 924			
Rank Mean = 77			
PH1-GWC-2	12/11/2013	ND<10	77
	6/11/2014	ND<10	77
	12/11/2014	ND<10	77
	6/23/2015	ND<10	77
	12/8/2015	ND<10	77
	6/14/2016	ND<10	77
	12/7/2016	ND<10	77
	6/14/2017	ND<10	77

	12/13/2017	ND<10	77
	6/19/2018	ND<10	77
	12/18/2018	ND<10	77
	6/10/2019	51	156

Rank Sum = 1003
Rank Mean = 83.5833

PH1-GWC-4	12/11/2013	ND<10	77
	6/12/2014	ND<10	77
	12/12/2014	ND<10	77
	6/25/2015	ND<10	77
	12/8/2015	ND<10	77
	6/14/2016	ND<10	77
	12/9/2016	ND<10	77
	6/16/2017	ND<10	77
	12/12/2017	ND<10	77
	6/20/2018	ND<10	77
	12/20/2018	31	154
	6/13/2019	ND<10	77

Rank Sum = 1001
Rank Mean = 83.4167

PH1-GWA-1	12/12/2013	ND<10	77
	6/10/2014	ND<10	77
	12/11/2014	ND<10	77
	6/24/2015	ND<10	77
	12/9/2015	ND<10	77
	6/15/2016	ND<10	77
	12/8/2016	ND<10	77
	6/14/2017	ND<10	77
	12/14/2017	ND<10	77
	6/20/2018	ND<10	77
	12/19/2018	ND<10	77
	6/11/2019	ND<10	77

Rank Sum = 924
Rank Mean = 77

PH1-GWA-2	12/12/2013	ND<10	77
	6/10/2014	ND<10	77
	12/11/2014	42	155
	6/23/2015	ND<10	77
	12/9/2015	ND<10	77
	6/14/2016	ND<10	77
	12/8/2016	ND<10	77
	6/16/2017	ND<10	77
	12/14/2017	ND<10	77
	6/19/2018	ND<10	77
	12/19/2018	ND<10	77
	6/12/2019	ND<10	77

Rank Sum = 1002
Rank Mean = 83.5

PH1-GWB-2	12/12/2013	ND<10	77
	6/10/2014	ND<10	77
	12/12/2014	ND<10	77
	6/25/2015	ND<10	77
	12/9/2015	ND<10	77

	6/14/2016	ND<10	77
	12/9/2016	ND<10	77
	6/16/2017	ND<10	77
	12/12/2017	ND<10	77
	6/20/2018	ND<10	77
	12/18/2018	ND<10	77
	6/13/2019	ND<10	77

Rank Sum = 924
Rank Mean = 77

PH1-GWC-3	12/12/2013	ND<10	77
	6/11/2014	ND<10	77
	12/11/2014	ND<10	77
	6/25/2015	ND<10	77
	12/10/2015	ND<10	77
	6/17/2016	ND<10	77
	12/9/2016	ND<10	77
	6/14/2017	ND<10	77
	12/13/2017	ND<10	77
	6/20/2018	ND<10	77
	12/19/2018	ND<10	77
	6/11/2019	ND<10	77

Rank Sum = 924
Rank Mean = 77

PH1-GWC-3A	12/12/2013	ND<10	77
	6/11/2014	ND<10	77
	12/11/2014	ND<10	77
	6/25/2015	ND<10	77
	12/10/2015	ND<10	77
	6/17/2016	ND<10	77
	12/9/2016	ND<10	77
	6/14/2017	ND<10	77
	12/13/2017	ND<10	77
	6/28/2018	ND<10	77
	12/19/2018	ND<10	77
	6/11/2019	ND<10	77

Rank Sum = 924
Rank Mean = 77

Calculation Results:
Kruskal-Wallis H Statistic = 0.57333
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 10.131
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
0.57333 < 19.6752 indicating no significant group difference at 5% significance level
10.131 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Total Vanadium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<10	77.5
	6/9/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/22/2015	ND<10	77.5
	12/7/2015	ND<10	77.5
	6/13/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/14/2017	ND<10	77.5
	12/11/2017	ND<10	77.5
	6/18/2018	ND<10	77.5
	12/17/2018	ND<10	77.5
	6/13/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			
PH1-GWA-4	12/12/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/12/2014	ND<10	77.5
	6/23/2015	ND<10	77.5
	12/9/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/8/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/13/2017	ND<10	77.5
	6/19/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/12/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			

Background Rank Sum = 1860
Background Rank Mean = 77.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	ND<10	77.5
	6/13/2014	ND<10	77.5
	12/12/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/10/2015	ND<10	77.5
	6/15/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/14/2017	ND<10	77.5
	12/14/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/18/2018	ND<10	77.5

	6/13/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			
PH1-GWA-1A	12/11/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/8/2014	ND<10	77.5
	6/23/2015	ND<10	77.5
	12/9/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/7/2016	ND<10	77.5
	6/12/2017	ND<10	77.5
	12/13/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/11/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			
PH1-GWB-1	12/11/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/9/2014	ND<10	77.5
	6/23/2015	ND<10	77.5
	12/8/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/8/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/13/2017	ND<10	77.5
	6/19/2018	ND<10	77.5
	12/18/2018	ND<10	77.5
	6/12/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			
PH1-GWC-1	12/11/2013	ND<10	77.5
	6/13/2014	ND<10	77.5
	12/12/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/9/2015	ND<10	77.5
	6/16/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/12/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/20/2018	ND<10	77.5
	6/13/2019	ND<10	77.5
Rank Sum = 930			
Rank Mean = 77.5			
PH1-GWC-2	12/11/2013	ND<10	77.5
	6/11/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/23/2015	ND<10	77.5
	12/8/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/7/2016	ND<10	77.5
	6/14/2017	ND<10	77.5

	12/13/2017	ND<10	77.5
	6/19/2018	ND<10	77.5
	12/18/2018	ND<10	77.5
	6/10/2019	42	155

Rank Sum = 1007.5
Rank Mean = 83.9583

PH1-GWC-4	12/11/2013	ND<10	77.5
	6/12/2014	ND<10	77.5
	12/12/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/8/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/12/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/20/2018	88	156
	6/13/2019	ND<10	77.5

Rank Sum = 1008.5
Rank Mean = 84.0417

PH1-GWA-1	12/12/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/24/2015	ND<10	77.5
	12/9/2015	ND<10	77.5
	6/15/2016	ND<10	77.5
	12/8/2016	ND<10	77.5
	6/14/2017	ND<10	77.5
	12/14/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/11/2019	ND<10	77.5

Rank Sum = 930
Rank Mean = 77.5

PH1-GWA-2	12/12/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/23/2015	ND<10	77.5
	12/9/2015	ND<10	77.5
	6/14/2016	ND<10	77.5
	12/8/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/14/2017	ND<10	77.5
	6/19/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/12/2019	ND<10	77.5

Rank Sum = 930
Rank Mean = 77.5

PH1-GWB-2	12/12/2013	ND<10	77.5
	6/10/2014	ND<10	77.5
	12/12/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/9/2015	ND<10	77.5

	6/14/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/16/2017	ND<10	77.5
	12/12/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/18/2018	ND<10	77.5
	6/13/2019	ND<10	77.5

Rank Sum = 930
Rank Mean = 77.5

PH1-GWC-3	12/12/2013	ND<10	77.5
	6/11/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/10/2015	ND<10	77.5
	6/17/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/14/2017	ND<10	77.5
	12/13/2017	ND<10	77.5
	6/20/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/11/2019	ND<10	77.5

Rank Sum = 930
Rank Mean = 77.5

PH1-GWC-3A	12/12/2013	ND<10	77.5
	6/11/2014	ND<10	77.5
	12/11/2014	ND<10	77.5
	6/25/2015	ND<10	77.5
	12/10/2015	ND<10	77.5
	6/17/2016	ND<10	77.5
	12/9/2016	ND<10	77.5
	6/14/2017	ND<10	77.5
	12/13/2017	ND<10	77.5
	6/28/2018	ND<10	77.5
	12/19/2018	ND<10	77.5
	6/11/2019	ND<10	77.5

Rank Sum = 930
Rank Mean = 77.5

Calculation Results:
Kruskal-Wallis H Statistic = 0.420403
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 11.0715
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
0.420403 < 19.6752 indicating no significant group difference at 5% significance level
11.0715 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Total Zinc
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<10	60.5
	6/9/2014	ND<10	60.5
	12/11/2014	ND<10	60.5
	6/22/2015	ND<10	60.5
	12/7/2015	ND<10	60.5
	6/13/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/14/2017	ND<10	60.5
	12/11/2017	ND<10	60.5
	6/18/2018	ND<10	60.5
	12/17/2018	ND<10	60.5
	6/13/2019	ND<10	60.5
Rank Sum = 726			
Rank Mean = 60.5			
PH1-GWA-4	12/12/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/12/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/14/2016	ND<10	60.5
	12/8/2016	ND<10	60.5
	6/16/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/19/2018	ND<10	60.5
	12/19/2018	ND<10	60.5
	6/12/2019	ND<10	60.5
Rank Sum = 726			
Rank Mean = 60.5			

Background Rank Sum = 1452
Background Rank Mean = 60.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/10/2013	ND<10	60.5
	6/13/2014	ND<10	60.5
	12/12/2014	ND<10	60.5
	6/25/2015	ND<10	60.5
	12/10/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/14/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/20/2018	20	121
	12/18/2018	ND<10	60.5

	6/13/2019	ND<10	60.5
Rank Sum = 786.5			
Rank Mean = 65.5417			
PH1-GWA-1A	12/11/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/8/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/14/2016	ND<10	60.5
	12/7/2016	ND<10	60.5
	6/12/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/20/2018	ND<10	60.5
	12/19/2018	ND<10	60.5
	6/11/2019	ND<10	60.5
Rank Sum = 726			
Rank Mean = 60.5			
PH1-GWB-1	12/11/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/9/2014	21	126
	6/23/2015	ND<10	60.5
	12/8/2015	29	138
	6/14/2016	ND<10	60.5
	12/8/2016	ND<10	60.5
	6/16/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/19/2018	39	148
	12/18/2018	ND<10	60.5
	6/12/2019	22	130
Rank Sum = 1026			
Rank Mean = 85.5			
PH1-GWC-1	12/11/2013	ND<10	60.5
	6/13/2014	ND<10	60.5
	12/12/2014	ND<10	60.5
	6/25/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/16/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/16/2017	ND<10	60.5
	12/12/2017	ND<10	60.5
	6/20/2018	ND<10	60.5
	12/20/2018	ND<10	60.5
	6/13/2019	ND<10	60.5
Rank Sum = 726			
Rank Mean = 60.5			
PH1-GWC-2	12/11/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/11/2014	22	131
	6/23/2015	ND<10	60.5
	12/8/2015	ND<10	60.5
	6/14/2016	ND<10	60.5
	12/7/2016	ND<10	60.5
	6/14/2017	ND<10	60.5

	12/13/2017	ND<10	60.5
	6/19/2018	20	122
	12/18/2018	ND<10	60.5
	6/10/2019	26	134

Rank Sum = 931.5
Rank Mean = 77.625

PH1-GWC-4	12/11/2013	ND<10	60.5
	6/12/2014	ND<10	60.5
	12/12/2014	20	123
	6/25/2015	ND<10	60.5
	12/8/2015	ND<10	60.5
	6/14/2016	ND<10	60.5
	12/9/2016	21	127
	6/16/2017	20	124
	12/12/2017	28	135
	6/20/2018	ND<10	60.5
	12/20/2018	120	156
	6/13/2019	20	125

Rank Sum = 1153
Rank Mean = 96.0833

PH1-GWA-1	12/12/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/11/2014	ND<10	60.5
	6/24/2015	34	145
	12/9/2015	ND<10	60.5
	6/15/2016	21	128
	12/8/2016	ND<10	60.5
	6/14/2017	43	150
	12/14/2017	51	152
	6/20/2018	55	153
	12/19/2018	40	149
	6/11/2019	34	146

Rank Sum = 1325.5
Rank Mean = 110.458

PH1-GWA-2	12/12/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/11/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/14/2016	56	154
	12/8/2016	ND<10	60.5
	6/16/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/19/2018	ND<10	60.5
	12/19/2018	29	139
	6/12/2019	ND<10	60.5

Rank Sum = 898
Rank Mean = 74.8333

PH1-GWB-2	12/12/2013	28	136
	6/10/2014	29	140
	12/12/2014	31	141
	6/25/2015	23	132
	12/9/2015	49	151

	6/14/2016	59	155
	12/9/2016	31	142
	6/16/2017	36	147
	12/12/2017	25	133
	6/20/2018	31	143
	12/18/2018	28	137
	6/13/2019	33	144

Rank Sum = 1701
Rank Mean = 141.75

PH1-GWC-3	12/12/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/11/2014	ND<10	60.5
	6/25/2015	ND<10	60.5
	12/10/2015	ND<10	60.5
	6/17/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/14/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/20/2018	ND<10	60.5
	12/19/2018	ND<10	60.5
	6/11/2019	ND<10	60.5

Rank Sum = 726
Rank Mean = 60.5

PH1-GWC-3A	12/12/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/11/2014	ND<10	60.5
	6/25/2015	ND<10	60.5
	12/10/2015	ND<10	60.5
	6/17/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/14/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/28/2018	21	129
	12/19/2018	ND<10	60.5
	6/11/2019	ND<10	60.5

Rank Sum = 794.5
Rank Mean = 66.2083

Calculation Results:

Kruskal-Wallis H Statistic = 43.1158
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 79.1339
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
43.1158 > 19.6752 indicating a significant group difference at 5% significance level
79.1339 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 60.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	65.5417	5.04167	37.1578
PH1-GWA-1A	60.5	0	37.1578
PH1-GWB-1	85.5	25	37.1578
PH1-GWC-1	60.5	0	37.1578

PH1-GWC-2	77.625	17.125	37.1578
PH1-GWC-4	96.0833	35.5833	37.1578
PH1-GWA-1	**110.458**	**49.9583**	**37.1578**
PH1-GWA-2	74.8333	14.3333	37.1578
PH1-GWB-2	**141.75**	**81.25**	**37.1578**
PH1-GWC-3	60.5	0	37.1578
PH1-GWC-3A	66.2083	5.70833	37.1578

Individual Well Comparisons at Groupwise 5% Significance Level
(0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209
Mean background rank is 60.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	65.5417	5.04167	42.3608
PH1-GWA-1A	60.5	0	42.3608
PH1-GWB-1	85.5	25	42.3608
PH1-GWC-1	60.5	0	42.3608
PH1-GWC-2	77.625	17.125	42.3608
PH1-GWC-4	96.0833	35.5833	42.3608
PH1-GWA-1	**110.458**	**49.9583**	**42.3608**
PH1-GWA-2	74.8333	14.3333	42.3608
PH1-GWB-2	**141.75**	**81.25**	**42.3608**
PH1-GWC-3	60.5	0	42.3608
PH1-GWC-3A	66.2083	5.70833	42.3608

Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
PH1-GWA-3A	12/10/2013	ND<1	57
	6/9/2014	ND<1	57
	12/11/2014	ND<1	57
	6/22/2015	ND<1	57
	12/7/2015	ND<1	57
	6/13/2016	ND<1	57
	12/9/2016	ND<1	57
	6/14/2017	ND<1	57
	12/11/2017	ND<1	57
	6/18/2018	ND<1	57
	12/17/2018	ND<1	57
	6/13/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWA-4	12/11/2013	ND<1	57
	6/9/2014	ND<1	57
	12/11/2014	ND<1	57
	6/22/2015	ND<1	57
	12/8/2015	ND<1	57
	6/13/2016	ND<1	57
	12/7/2016	ND<1	57
	6/15/2017	ND<1	57
	12/12/2017	ND<1	57
	6/18/2018	ND<1	57
	12/18/2018	ND<1	57
	6/11/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			

Background Rank Sum = 1368
Background Rank Mean = 57

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-1	12/9/2013	ND<1	57
	6/12/2014	ND<1	57
	12/11/2014	ND<1	57
	6/24/2015	ND<1	57
	12/9/2015	ND<1	57
	6/14/2016	ND<1	57
	12/8/2016	ND<1	57
	6/13/2017	ND<1	57
	12/13/2017	ND<1	57
	6/19/2018	ND<1	57
	12/17/2018	ND<1	57

	6/13/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWB-1	12/10/2013	ND<1	57
	6/9/2014	ND<1	57
	12/9/2014	ND<1	57
	6/22/2015	ND<1	57
	12/7/2015	ND<1	57
	6/13/2016	ND<1	57
	12/7/2016	ND<1	57
	6/15/2017	ND<1	57
	12/12/2017	ND<1	57
	6/18/2018	ND<1	57
	12/17/2018	ND<1	57
	6/11/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWC-1	12/10/2013	ND<1	57
	6/12/2014	ND<1	57
	12/11/2014	ND<1	57
	6/24/2015	ND<1	57
	12/8/2015	ND<1	57
	6/15/2016	ND<1	57
	12/8/2016	ND<1	57
	6/15/2017	ND<1	57
	12/11/2017	ND<1	57
	6/19/2018	ND<1	57
	12/19/2018	ND<1	57
	6/13/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWC-4	12/10/2013	ND<1	57
	6/11/2014	ND<1	57
	12/11/2014	ND<1	57
	6/24/2015	ND<1	57
	12/7/2015	ND<1	57
	6/13/2016	ND<1	57
	12/8/2016	ND<1	57
	6/15/2017	ND<1	57
	12/11/2017	ND<1	57
	6/19/2018	ND<1	57
	12/19/2018	ND<1	57
	6/13/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWA-1	12/11/2013	3.2	121
	6/9/2014	ND<1	57
	12/10/2014	2.7	120
	6/23/2015	2.1	116
	12/8/2015	ND<1	57
	6/14/2016	ND<1	57
	12/7/2016	2.2	118
	6/13/2017	ND<1	57

	12/13/2017	ND<1	57
	6/19/2018	ND<1	57
	12/18/2018	ND<1	57
	6/10/2019	ND<1	57
Rank Sum = 931			
Rank Mean = 77.5833			
PH1-GWA-1A	12/11/2013	ND<1	57
	6/10/2014	ND<1	57
	12/8/2014	ND<1	57
	6/23/2015	ND<1	57
	12/8/2015	ND<1	57
	6/14/2016	ND<1	57
	12/7/2016	ND<1	57
	6/12/2017	ND<1	57
	12/13/2017	ND<1	57
	6/19/2018	ND<1	57
	12/18/2018	ND<1	57
	6/10/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWA-2	12/11/2013	4	124
	6/9/2014	8.1	155
	12/10/2014	6.7	142
	6/22/2015	5.1	131
	12/8/2015	3.5	122
	6/13/2016	3.8	123
	12/7/2016	7.1	151
	6/15/2017	4.1	126
	12/13/2017	5.8	136
	6/18/2018	4.2	127
	12/18/2018	4	125
	6/11/2019	2.1	117
Rank Sum = 1579			
Rank Mean = 131.583			
PH1-GWB-2	12/11/2013	ND<1	57
	6/9/2014	ND<1	57
	12/11/2014	ND<1	57
	6/24/2015	ND<1	57
	12/8/2015	ND<1	57
	6/13/2016	ND<1	57
	12/8/2016	ND<1	57
	6/15/2017	ND<1	57
	12/11/2017	ND<1	57
	6/19/2018	ND<1	57
	12/17/2018	ND<1	57
	6/12/2019	ND<1	57
Rank Sum = 684			
Rank Mean = 57			
PH1-GWC-2	12/11/2013	ND<1	57
	6/10/2014	ND<1	57
	12/11/2014	ND<1	57
	6/23/2015	ND<1	57
	12/8/2015	ND<1	57

	6/14/2016	ND<1	57
	12/7/2016	ND<1	57
	6/13/2017	2.4	119
	12/13/2017	ND<1	57
	6/19/2018	ND<1	57
	12/18/2018	2	114
	6/10/2019	2	115

Rank Sum = 861
Rank Mean = 71.75

PH1-GWC-3	12/11/2013	4.9	130
	6/10/2014	5.7	134
	12/10/2014	4.6	128
	6/24/2015	5.3	132
	12/9/2015	6.9	148
	6/16/2016	5.6	133
	12/8/2016	7.6	154
	6/13/2017	7	150
	12/12/2017	8.4	156
	6/19/2018	6.9	149
	12/18/2018	6.8	144
	6/10/2019	7.4	153

Rank Sum = 1711
Rank Mean = 142.583

PH1-GWC-3A	12/11/2013	6.8	145
	6/10/2014	7.3	152
	12/10/2014	5.8	137
	6/24/2015	6.5	140
	12/9/2015	6.7	143
	6/16/2016	4.6	129
	12/8/2016	6.8	146
	6/13/2017	6	139
	12/12/2017	6.6	141
	6/19/2018	6.8	147
	12/18/2018	5.8	138
	6/10/2019	5.7	135

Rank Sum = 1692
Rank Mean = 141

Calculation Results:

Kruskal-Wallis H Statistic = 85.6943
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 138.229
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
85.6943 > 19.6752 indicating a significant group difference at 5% significance level
138.229 > 19.6752 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 57

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	57	0	37.1578
PH1-GWB-1	57	0	37.1578
PH1-GWC-1	57	0	37.1578
PH1-GWC-4	57	0	37.1578

PH1-GWA-1	77.5833	20.5833	37.1578
PH1-GWA-1A	57	0	37.1578
PH1-GWA-2	**131.583**	**74.5833**	**37.1578**
PH1-GWB-2	57	0	37.1578
PH1-GWC-2	71.75	14.75	37.1578
PH1-GWC-3	**142.583**	**85.5833**	**37.1578**
PH1-GWC-3A	**141**	**84**	**37.1578**

Individual Well Comparisons at Groupwise 5% Significance Level (0.454545% Significance Level per comparison)

0.454545% Z score is 2.65209
Mean background rank is 57

Well	Mean Rank	Dif from Bkg	Critical Value
GWC-1	57	0	42.3608
PH1-GWB-1	57	0	42.3608
PH1-GWC-1	57	0	42.3608
PH1-GWC-4	57	0	42.3608
PH1-GWA-1	77.5833	20.5833	42.3608
PH1-GWA-1A	57	0	42.3608
PH1-GWA-2	**131.583**	**74.5833**	**42.3608**
PH1-GWB-2	57	0	42.3608
PH1-GWC-2	71.75	14.75	42.3608
PH1-GWC-3	**142.583**	**85.5833**	**42.3608**
PH1-GWC-3A	**141**	**84**	**42.3608**

Kruskal-Wallis Non-Parametric Test

Parameter: BHC-beta
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank

Background Rank Sum = 0
Background Rank Mean = 0

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	ND<0.0485	11
	6/23/2015	ND<0.009	11
	6/14/2016	ND<0.009	11
	6/10/2019	0.032	22
Rank Sum = 55			
Rank Mean = 13.75			
PH1-GWA-2	6/9/2014	ND<0.049	11
	6/22/2015	ND<0.009	11
	6/13/2016	ND<0.01	11
	6/11/2019	ND<0.009	11
Rank Sum = 44			
Rank Mean = 11			
PH1-GWB-2	6/9/2014	ND<0.0485	11
	6/24/2015	ND<0.009	11
Rank Sum = 22			
Rank Mean = 11			
PH1-GWC-2	6/10/2014	ND<0.048	11
	6/23/2015	ND<0.009	11
	6/14/2016	ND<0.0105	11
	6/10/2019	ND<0.0085	11
Rank Sum = 44			
Rank Mean = 11			
PH1-GWC-3	6/10/2014	ND<0.0485	11
	6/24/2015	ND<0.009	11
	6/16/2016	ND<0.0095	11
	6/10/2019	ND<0.0085	11
Rank Sum = 44			
Rank Mean = 11			
PH1-GWC-3A	6/10/2014	ND<0.0495	11
	6/24/2015	ND<0.009	11
	6/16/2016	ND<0.0095	11
	6/10/2019	ND<0.0085	11
Rank Sum = 44			
Rank Mean = 11			

Calculation Results:

Kruskal-Wallis H Statistic = 0.586957
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 4.5
95% Confidence comparison value is 12.5916 at 6 degrees of freedom
0.586957 < 12.5916 indicating no significant group difference at 5% significance level
4.5 < 12.5916 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Sulfide
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank

Background Rank Sum = 0
Background Rank Mean = 0

Compliance Locations

Loc. ID	Date	Value	Rank
PH1-GWA-1	6/9/2014	ND<500	10
	6/23/2015	ND<500	10
	6/14/2016	ND<500	10
	6/10/2019	ND<430	10

Rank Sum = 40
Rank Mean = 10

PH1-GWA-2	6/9/2014	ND<500	10
	6/22/2015	ND<500	10
	6/13/2016	ND<500	10
	6/11/2019	1700	21

Rank Sum = 51
Rank Mean = 12.75

PH1-GWB-2	6/9/2014	ND<500	10
	6/24/2015	ND<500	10

Rank Sum = 20
Rank Mean = 10

PH1-GWC-2	6/10/2014	ND<500	10
	6/23/2015	ND<500	10
	6/14/2016	ND<500	10
	6/10/2019	1800	22

Rank Sum = 52
Rank Mean = 13

PH1-GWC-3	6/10/2014	ND<500	10
	6/24/2015	ND<500	10
	6/16/2016	ND<500	10
	6/10/2019	1200	20

Rank Sum = 50
Rank Mean = 12.5

PH1-GWC-3A	6/10/2014	ND<500	10
	6/24/2015	ND<500	10
	6/16/2016	ND<500	10
	6/10/2019	ND<425	10

Rank Sum = 40
Rank Mean = 10

Calculation Results:

Kruskal-Wallis H Statistic = 0.990119
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 2.77892
95% Confidence comparison value is 12.5916 at 6 degrees of freedom
0.990119 < 12.5916 indicating no significant group difference at 5% significance level
2.77892 < 12.5916 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	168
	6/9/2014	ND<1	168
	12/8/2014	ND<1	168
	6/23/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/13/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWA-2	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/9/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/13/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			

Background Rank Sum = 4032
Background Rank Mean = 168

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	168
	6/9/2014	ND<1	168
	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/13/2016	ND<1	168
	12/8/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168
	12/17/2018	ND<1	168

	6/11/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-10	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-10A	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/17/2018	ND<1	168
	6/10/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-13	12/9/2013	ND<1	168
	6/9/2014	ND<1	168
	12/11/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/15/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-2	12/9/2013	ND<1	168
	6/12/2014	ND<1	168
	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168

	12/13/2017	ND<1	168
	6/20/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-22	12/9/2013	ND<1	168
	6/10/2014	ND<1	168
	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-23	12/9/2013	ND<1	168
	6/12/2014	ND<1	168
	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-23A	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/8/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/11/2017	ND<1	168
	6/18/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-3	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168

	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	6/21/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 1680
Rank Mean = 168

GWC-3A	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-4	12/9/2013	ND<1	168
	6/12/2014	ND<1	168
	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/20/2018	ND<1	168

Rank Sum = 1344
Rank Mean = 168

GWC-5	12/9/2013	ND<1	168
	6/10/2014	ND<1	168
	12/8/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/12/2017	ND<1	168
	12/12/2017	ND<1	168
	6/21/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-6	12/9/2013	ND<1	168
	6/10/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/12/2017	ND<1	168

	12/13/2017	ND<1	168
	6/21/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-7	12/9/2013	ND<1	168
	6/10/2014	ND<1	168
	12/8/2014	ND<1	168
	6/24/2015	ND<1	168
	12/7/2015	ND<1	168
	6/15/2016	ND<1	168
	12/8/2016	ND<1	168
	6/12/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-9	12/9/2013	ND<1	168
	6/11/2014	ND<1	168
	12/11/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/8/2016	ND<1	168
	6/15/2017	ND<1	168
	12/13/2017	ND<1	168
	6/20/2018	ND<1	168
	12/18/2018	ND<1	168
	6/12/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWA-1A	12/10/2013	ND<1	168
	6/10/2014	ND<1	168
	12/8/2014	ND<1	168
	6/23/2015	ND<1	168
	12/8/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/12/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/10/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-11	12/10/2013	ND<1	168
	6/9/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168

	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-12	12/10/2013	ND<1	168
	6/9/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-12A	12/10/2013	ND<1	168
	6/9/2014	ND<1	168
	12/9/2014	ND<1	168
	6/22/2015	ND<1	168
	12/7/2015	ND<1	168
	6/14/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168
Rank Sum = 2016			
Rank Mean = 168			
GWC-14	12/10/2013	ND<1	168
	6/11/2014	ND<1	168
	12/10/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	6/13/2017	ND<1	168
	6/20/2018	ND<1	168
	6/11/2019	ND<1	168
Rank Sum = 1512			
Rank Mean = 168			
GWC-24	12/10/2013	ND<1	168
	6/11/2014	ND<1	168
	12/10/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168

	6/13/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-15	12/11/2013	ND<1	168
	6/10/2014	ND<1	168
	12/10/2014	5.4	355
	6/23/2015	ND<1	168
	12/9/2015	5.2	354
	6/15/2016	ND<1	168
	12/8/2016	38	395
	6/14/2017	2.9	339
	12/13/2017	3.7	346
	6/19/2018	ND<1	168
	12/19/2018	3	341
	6/11/2019	38	396

Rank Sum = 3366
Rank Mean = 280.5

GWC-17	12/11/2013	ND<1	168
	6/9/2014	ND<1	168
	12/10/2014	ND<1	168
	6/22/2015	ND<1	168
	12/8/2015	ND<1	168
	6/13/2016	ND<1	168
	6/14/2017	ND<1	168
	12/12/2017	ND<1	168
	6/19/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 1848
Rank Mean = 168

GWC-18	12/11/2013	ND<1	168
	6/9/2014	2	336
	12/10/2014	2.9	340
	6/22/2015	2.7	338
	12/9/2015	ND<1	168
	6/13/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 2526
Rank Mean = 210.5

GWC-19R	12/11/2013	ND<1	168
	6/10/2014	ND<1	168
	12/10/2014	ND<1	168

	6/22/2015	ND<1	168
	12/9/2015	ND<1	168
	6/15/2016	ND<1	168
	12/6/2016	ND<1	168
	6/14/2017	ND<1	168
	12/13/2017	ND<1	168
	6/19/2018	ND<1	168
	12/18/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-14A	12/12/2013	12	360
	6/11/2014	14	364
	12/10/2014	19	379
	6/23/2015	13	362
	12/9/2015	16	369
	6/15/2016	16	370
	12/8/2016	22	384
	6/13/2017	16	371
	12/12/2017	23	388
	6/20/2018	17	374
	12/19/2018	16	372
	6/11/2019	9.2	359

Rank Sum = 4452
Rank Mean = 371

GWC-14R	12/12/2013	30	392
	6/11/2014	34	394
	12/10/2014	30	393
	6/23/2015	25	390
	12/10/2015	22	385
	6/15/2016	26	391
	12/8/2016	24	389
	6/13/2017	21	383
	12/12/2017	20	381
	6/20/2018	22	386
	12/19/2018	18	375
	6/12/2019	18	376

Rank Sum = 4635
Rank Mean = 386.25

GWC-4A	12/12/2013	ND<1	168
	6/10/2014	ND<1	168
	12/11/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	ND<1	168
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/13/2017	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/17/2018	ND<1	168
	6/11/2019	ND<1	168

Rank Sum = 2016
Rank Mean = 168

GWC-8	12/12/2013	ND<1	168
	6/11/2014	ND<1	168
	12/10/2014	ND<1	168
	6/23/2015	ND<1	168
	12/10/2015	ND<1	168
	6/15/2016	ND<1	168
	12/8/2016	ND<1	168
	12/12/2017	ND<1	168
	6/20/2018	ND<1	168
	12/19/2018	ND<1	168
	6/12/2019	ND<1	168

Rank Sum = 1848
Rank Mean = 168

GWC-8A	12/12/2013	4.2	350
	6/11/2014	3.6	345
	12/10/2014	6.1	357
	6/24/2015	3	342
	12/10/2015	3.8	348
	6/15/2016	3.4	344
	12/8/2016	5.1	353
	6/13/2017	3	343
	12/12/2017	4.9	352
	6/20/2018	3.9	349
	12/19/2018	4.2	351
	6/12/2019	2.6	337

Rank Sum = 4171
Rank Mean = 347.583

GWC-8R	12/12/2013	18	377
	6/11/2014	20	382
	12/10/2014	19	380
	6/23/2015	16	373
	12/10/2015	18	378
	6/15/2016	15	367
	12/8/2016	15	368
	6/13/2017	14	365
	12/12/2017	14	366
	6/20/2018	22	387
	12/19/2018	13	363
	6/12/2019	12	361

Rank Sum = 4467
Rank Mean = 372.25

GWC-16A	6/12/2014	6.5	358
	12/10/2014	ND<1	168
	6/24/2015	ND<1	168
	12/9/2015	5.5	356
	6/16/2016	ND<1	168
	12/7/2016	ND<1	168
	6/14/2017	3.7	347
	12/13/2017	ND<1	168
	6/21/2018	ND<1	168
	12/19/2018	ND<1	168
	6/13/2019	ND<1	168

Rank Sum = 2405
Rank Mean = 218.636

Calculation Results:

Kruskal-Wallis H Statistic = 136.409
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 345.697
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
136.409 > 46.1942 indicating a significant group difference at 5% significance level
345.697 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 168

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	168	0	94.1414
GWC-10	168	0	94.1414
GWC-10A	168	0	94.1414
GWC-13	168	0	94.1414
GWC-2	168	0	94.1414
GWC-22	168	0	94.1414
GWC-23	168	0	94.1414
GWC-23A	168	0	94.1414
GWC-3	168	0	100.221
GWC-3A	168	0	94.1414
GWC-4	168	0	108.705
GWC-5	168	0	94.1414
GWC-6	168	0	94.1414
GWC-7	168	0	94.1414
GWC-9	168	0	94.1414
GWA-1A	168	0	94.1414
GWC-11	168	0	94.1414
GWC-12	168	0	94.1414
GWC-12A	168	0	94.1414
GWC-14	168	0	104.077
GWC-24	168	0	94.1414
GWC-15	**280.5**	**112.5**	**94.1414**
GWC-17	168	0	96.9522
GWC-18	210.5	42.5	94.1414
GWC-19R	168	0	94.1414
GWC-14A	**371**	**203**	**94.1414**
GWC-14R	**386.25**	**218.25**	**94.1414**
GWC-4A	168	0	94.1414
GWC-8	168	0	96.9522
GWC-8A	**347.583**	**179.583**	**94.1414**
GWC-8R	**372.25**	**204.25**	**94.1414**
GWC-16A	218.636	50.6364	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 168

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	168	0	125.055
GWC-10	168	0	125.055
GWC-10A	168	0	125.055
GWC-13	168	0	125.055
GWC-2	168	0	125.055

GWC-22	168	0	125.055
GWC-23	168	0	125.055
GWC-23A	168	0	125.055
GWC-3	168	0	133.131
GWC-3A	168	0	125.055
GWC-4	168	0	144.401
GWC-5	168	0	125.055
GWC-6	168	0	125.055
GWC-7	168	0	125.055
GWC-9	168	0	125.055
GWA-1A	168	0	125.055
GWC-11	168	0	125.055
GWC-12	168	0	125.055
GWC-12A	168	0	125.055
GWC-14	168	0	138.253
GWC-24	168	0	125.055
GWC-15	280.5	112.5	125.055
GWC-17	168	0	128.789
GWC-18	210.5	42.5	125.055
GWC-19R	168	0	125.055
GWC-14A	**371**	**203**	**125.055**
GWC-14R	**386.25**	**218.25**	**125.055**
GWC-4A	168	0	125.055
GWC-8	168	0	128.789
GWC-8A	**347.583**	**179.583**	**125.055**
GWC-8R	**372.25**	**204.25**	**125.055**
GWC-16A	218.636	50.6364	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWA-2	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5
Rank Sum = 2370			
Rank Mean = 197.5			

Background Rank Sum = 4740
Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/17/2018	ND<50	197.5

	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10A	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-13	12/9/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-2	12/9/2013	ND<50	197.5
	6/12/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5

	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-22	12/9/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23	12/9/2013	ND<50	197.5
	6/12/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23A	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/11/2017	ND<50	197.5
	6/18/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-3	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5

	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	12/9/2013	ND<50	197.5
	6/12/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/20/2018	ND<50	197.5

Rank Sum = 1580
Rank Mean = 197.5

GWC-5	12/9/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	12/9/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/12/2017	ND<50	197.5

	12/13/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	12/9/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	12/9/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/15/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWA-1A	12/10/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/8/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/12/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/10/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-11	12/10/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5

	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12	12/10/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12A	12/10/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/9/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/7/2015	ND<50	197.5
	6/14/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	12/10/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-24	12/10/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5

	6/13/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-15	12/11/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-17	12/11/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/8/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-18	12/11/2013	ND<50	197.5
	6/9/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/13/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	12/11/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/10/2014	ND<50	197.5

	6/22/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/6/2016	ND<50	197.5
	6/14/2017	ND<50	197.5
	12/13/2017	ND<50	197.5
	6/19/2018	ND<50	197.5
	12/18/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14A	12/12/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	12/12/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	12/12/2013	ND<50	197.5
	6/10/2014	ND<50	197.5
	12/11/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	ND<50	197.5
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/17/2018	ND<50	197.5
	6/11/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8	12/12/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	12/12/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	12/12/2013	ND<50	197.5
	6/11/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/23/2015	ND<50	197.5
	12/10/2015	ND<50	197.5
	6/15/2016	ND<50	197.5
	12/8/2016	ND<50	197.5
	6/13/2017	ND<50	197.5
	12/12/2017	ND<50	197.5
	6/20/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/12/2019	ND<50	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	ND<50	197.5
	12/10/2014	ND<50	197.5
	6/24/2015	ND<50	197.5
	12/9/2015	1300	395
	6/16/2016	ND<50	197.5
	12/7/2016	ND<50	197.5
	6/14/2017	1500	396
	12/13/2017	ND<50	197.5
	6/21/2018	ND<50	197.5
	12/19/2018	ND<50	197.5
	6/13/2019	ND<50	197.5

Rank Sum = 2568.5
Rank Mean = 233.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.05793
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 70.1772
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
1.05793 < 46.1942 indicating no significant group difference at 5% significance level
70.1772 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-2	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-4	197.5	0	108.705
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-24	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-16A	233.5	36	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-13	197.5	0	125.055
GWC-2	197.5	0	125.055

GWC-22	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-4	197.5	0	144.401
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-9	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-24	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-16A	233.5	36	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Aldrin
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank

Background Rank Sum = 0
Background Rank Mean = 0

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-17	6/9/2014	ND<0.0495	16.5
	6/22/2015	ND<0.009	16.5
	6/13/2016	ND<0.0095	16.5
Rank Sum = 49.5			
Rank Mean = 16.5			
GWC-18	6/9/2014	ND<0.0495	16.5
	7/14/2015	ND<0.01	16.5
	6/13/2016	ND<0.0095	16.5
	6/11/2019	ND<0.009	16.5
Rank Sum = 66			
Rank Mean = 16.5			
GWC-15	6/10/2014	ND<0.0485	16.5
	7/14/2015	ND<0.011	16.5
	6/15/2016	ND<0.0115	16.5
	6/11/2019	ND<0.0085	16.5
Rank Sum = 66			
Rank Mean = 16.5			
GWC-19R	6/10/2014	ND<0.0475	16.5
	6/22/2015	ND<0.009	16.5
	6/15/2016	ND<0.0095	16.5
	6/11/2019	ND<0.0085	16.5
Rank Sum = 66			
Rank Mean = 16.5			
GWC-14A	6/11/2014	ND<0.0485	16.5
	6/23/2015	ND<0.009	16.5
	6/15/2016	ND<0.0095	16.5
	6/11/2019	0.058	33
Rank Sum = 82.5			
Rank Mean = 20.625			
GWC-24	6/11/2014	ND<0.048	16.5
	6/22/2015	ND<0.009	16.5
	6/13/2016	ND<0.0095	16.5
	6/11/2019	ND<0.0095	16.5
Rank Sum = 66			

Rank Mean = 16.5

GWC-8	6/11/2014	ND<0.0475	16.5
	6/23/2015	ND<0.009	16.5
Rank Sum = 33			
Rank Mean = 16.5			
GWC-8A	6/11/2014	ND<0.048	16.5
	6/24/2015	ND<0.009	16.5
	6/15/2016	ND<0.0095	16.5
	6/12/2019	ND<0.0085	16.5
Rank Sum = 66			
Rank Mean = 16.5			
GWC-16A	6/12/2014	ND<0.049	16.5
	6/24/2015	ND<0.009	16.5
	6/16/2016	ND<0.009	16.5
	6/13/2019	ND<0.0085	16.5
Rank Sum = 66			
Rank Mean = 16.5			

Calculation Results:

Kruskal-Wallis H Statistic = 0.639706
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 7.25
95% Confidence comparison value is 16.919 at 9 degrees of freedom
0.639706 < 16.919 indicating no significant group difference at 5% significance level
7.25 < 16.919 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWA-2	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
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	12/9/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/17/2018	ND<1	185.5

	6/11/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-10	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-10A	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-13	12/9/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-2	12/9/2013	ND<1	185.5
	6/12/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5

	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-22	12/9/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-23	12/9/2013	ND<1	185.5
	6/12/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-23A	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/11/2017	ND<1	185.5
	6/18/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-3	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5

	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
Rank Sum = 1855			
Rank Mean = 185.5			
GWC-3A	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-4	12/9/2013	ND<1	185.5
	6/12/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/20/2018	ND<1	185.5
Rank Sum = 1484			
Rank Mean = 185.5			
GWC-5	12/9/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-6	12/9/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5

	12/13/2017	ND<1	185.5
	6/21/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-7	12/9/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-9	12/9/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/15/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWA-1A	12/10/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/8/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/12/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/10/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-11	12/10/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5

	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-12	12/10/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-12A	12/10/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/9/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/7/2015	ND<1	185.5
	6/14/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
Rank Sum = 2226			
Rank Mean = 185.5			
GWC-14	12/10/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	6/11/2019	ND<1	185.5
Rank Sum = 1669.5			
Rank Mean = 185.5			
GWC-24	12/10/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5

	6/13/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-15	12/11/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	3.2	393
	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	391

Rank Sum = 2639
Rank Mean = 219.917

GWC-17	12/11/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/8/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-18	12/11/2013	ND<1	185.5
	6/9/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/13/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-19R	12/11/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/10/2014	ND<1	185.5

	6/22/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/6/2016	ND<1	185.5
	6/14/2017	ND<1	185.5
	12/13/2017	ND<1	185.5
	6/19/2018	ND<1	185.5
	12/18/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-14A	12/12/2013	2	371
	6/11/2014	2.2	374
	12/10/2014	2.4	381
	6/23/2015	2.5	382
	12/9/2015	2.3	377
	6/15/2016	2.5	383
	12/8/2016	2.3	378
	6/13/2017	2.8	387
	12/12/2017	3	390
	6/20/2018	2.8	388
	12/19/2018	2.5	384
	6/11/2019	2.1	372

Rank Sum = 4567
Rank Mean = 380.583

GWC-14R	12/12/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-4A	12/12/2013	ND<1	185.5
	6/10/2014	ND<1	185.5
	12/11/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	ND<1	185.5
	6/16/2016	ND<1	185.5
	12/7/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/17/2018	ND<1	185.5
	6/11/2019	ND<1	185.5

Rank Sum = 2226
Rank Mean = 185.5

GWC-8	12/12/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5

Rank Sum = 2040.5
Rank Mean = 185.5

GWC-8A	12/12/2013	ND<1	185.5
	6/11/2014	ND<1	185.5
	12/10/2014	3.1	392
	6/24/2015	ND<1	185.5
	12/10/2015	2.7	385
	6/15/2016	2.2	375
	12/8/2016	3.2	394
	6/13/2017	2.3	379
	12/12/2017	3.8	396
	6/20/2018	2.7	386
	12/19/2018	3.3	395
	6/12/2019	ND<1	185.5

Rank Sum = 3844
Rank Mean = 320.333

GWC-8R	12/12/2013	2.1	373
	6/11/2014	2.3	380
	12/10/2014	2.2	376
	6/23/2015	ND<1	185.5
	12/10/2015	ND<1	185.5
	6/15/2016	ND<1	185.5
	12/8/2016	ND<1	185.5
	6/13/2017	ND<1	185.5
	12/12/2017	ND<1	185.5
	6/20/2018	ND<1	185.5
	12/19/2018	ND<1	185.5
	6/12/2019	ND<1	185.5

Rank Sum = 2798.5
Rank Mean = 233.208

GWC-16A	6/12/2014	ND<1	185.5
	12/10/2014	ND<1	185.5
	6/24/2015	ND<1	185.5
	12/9/2015	2.8	389
	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

Rank Sum = 2244
Rank Mean = 204

Calculation Results:

Kruskal-Wallis H Statistic = 49.8602
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 270.507
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
49.8602 > 46.1942 indicating a significant group difference at 5% significance level
270.507 > 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	94.1414
GWC-10	185.5	0	94.1414
GWC-10A	185.5	0	94.1414
GWC-13	185.5	0	94.1414
GWC-2	185.5	0	94.1414
GWC-22	185.5	0	94.1414
GWC-23	185.5	0	94.1414
GWC-23A	185.5	0	94.1414
GWC-3	185.5	0	100.221
GWC-3A	185.5	0	94.1414
GWC-4	185.5	0	108.705
GWC-5	185.5	0	94.1414
GWC-6	185.5	0	94.1414
GWC-7	185.5	0	94.1414
GWC-9	185.5	0	94.1414
GWA-1A	185.5	0	94.1414
GWC-11	185.5	0	94.1414
GWC-12	185.5	0	94.1414
GWC-12A	185.5	0	94.1414
GWC-14	185.5	0	104.077
GWC-24	185.5	0	94.1414
GWC-15	219.917	34.4167	94.1414
GWC-17	185.5	0	96.9522
GWC-18	185.5	0	94.1414
GWC-19R	185.5	0	94.1414
GWC-14A	**380.583**	**195.083**	**94.1414**
GWC-14R	185.5	0	94.1414
GWC-4A	185.5	0	94.1414
GWC-8	185.5	0	96.9522
GWC-8A	**320.333**	**134.833**	**94.1414**
GWC-8R	233.208	47.7083	94.1414
GWC-16A	204	18.5	96.9522

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	125.055
GWC-10	185.5	0	125.055
GWC-10A	185.5	0	125.055
GWC-13	185.5	0	125.055
GWC-2	185.5	0	125.055

GWC-22	185.5	0	125.055
GWC-23	185.5	0	125.055
GWC-23A	185.5	0	125.055
GWC-3	185.5	0	133.131
GWC-3A	185.5	0	125.055
GWC-4	185.5	0	144.401
GWC-5	185.5	0	125.055
GWC-6	185.5	0	125.055
GWC-7	185.5	0	125.055
GWC-9	185.5	0	125.055
GWA-1A	185.5	0	125.055
GWC-11	185.5	0	125.055
GWC-12	185.5	0	125.055
GWC-12A	185.5	0	125.055
GWC-14	185.5	0	138.253
GWC-24	185.5	0	125.055
GWC-15	219.917	34.4167	125.055
GWC-17	185.5	0	128.789
GWC-18	185.5	0	125.055
GWC-19R	185.5	0	125.055
GWC-14A	**380.583**	**195.083**	**125.055**
GWC-14R	185.5	0	125.055
GWC-4A	185.5	0	125.055
GWC-8	185.5	0	128.789
GWC-8A	**320.333**	**134.833**	**125.055**
GWC-8R	233.208	47.7083	125.055
GWC-16A	204	18.5	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: bis(2-Ethylhexyl) phthalate
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank

Background Rank Sum = 0
Background Rank Mean = 0

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-19R	12/11/2013	ND<2.9	23.5
	6/10/2014	ND<3	23.5
	6/22/2015	ND<3	23.5
	6/15/2016	ND<12	23.5
	6/11/2019	ND<12.5	23.5
Rank Sum = 117.5			
Rank Mean = 23.5			
GWC-8A	12/12/2013	ND<2.9	23.5
	6/11/2014	8.6	47
	12/10/2014	ND<2.9	23.5
	7/14/2015	ND<3	23.5
	6/15/2016	ND<12	23.5
	7/24/2019	49	50
Rank Sum = 191			
Rank Mean = 31.8333			
GWC-17	6/9/2014	ND<3	23.5
	6/22/2015	ND<3	23.5
	6/13/2016	ND<12	23.5
Rank Sum = 70.5			
Rank Mean = 23.5			
GWC-18	6/9/2014	ND<3	23.5
	7/14/2015	ND<3	23.5
	6/13/2016	ND<12	23.5
	6/11/2019	ND<13	23.5
Rank Sum = 94			
Rank Mean = 23.5			
GWC-15	6/10/2014	ND<3	23.5
	7/14/2015	ND<3	23.5
	6/15/2016	ND<12	23.5
	6/11/2019	ND<13	23.5
Rank Sum = 94			
Rank Mean = 23.5			
GWC-14A	6/11/2014	ND<3	23.5
	7/14/2015	ND<3	23.5

	6/15/2016	ND<12	23.5
	6/11/2019	ND<13	23.5

Rank Sum = 94
Rank Mean = 23.5

GWC-14R	6/11/2014	ND<3	23.5
	6/23/2015	ND<3	23.5
	6/15/2016	ND<12	23.5
	6/13/2017	ND<11.5	23.5
	6/20/2018	ND<12	23.5
	7/24/2019	ND<11.5	23.5

Rank Sum = 141
Rank Mean = 23.5

GWC-24	6/11/2014	ND<3	23.5
	6/22/2015	ND<3	23.5
	6/13/2016	ND<12	23.5
	6/11/2019	ND<13	23.5

Rank Sum = 94
Rank Mean = 23.5

GWC-8	6/11/2014	ND<3	23.5
	7/14/2015	ND<3	23.5

Rank Sum = 47
Rank Mean = 23.5

GWC-8R	6/11/2014	ND<3	23.5
	6/23/2015	ND<3	23.5
	6/15/2016	ND<12	23.5
	6/13/2017	ND<12	23.5
	6/20/2018	26	49
	12/19/2018	ND<2.8	23.5
	7/24/2019	ND<11.5	23.5

Rank Sum = 190
Rank Mean = 27.1429

GWC-16A	6/12/2014	22	48
	12/10/2014	ND<2.9	23.5
	7/14/2015	ND<3	23.5
	6/16/2016	ND<12	23.5
	6/13/2019	ND<12.5	23.5

Rank Sum = 142
Rank Mean = 28.4

Calculation Results:
Kruskal-Wallis H Statistic = 2.02169
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 9.1327
95% Confidence comparison value is 19.6752 at 11 degrees of freedom
2.02169 < 19.6752 indicating no significant group difference at 5% significance level
9.1327 < 19.6752 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Chloroethane
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	188
	6/9/2014	ND<1	188
	12/8/2014	ND<1	188
	6/23/2015	ND<1	188
	12/8/2015	ND<1	188
	6/14/2016	ND<1	188
	12/7/2016	ND<1	188
	6/13/2017	ND<1	188
	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188

Rank Sum = 2256
Rank Mean = 188

GWA-2	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/9/2014	ND<1	188
	6/24/2015	ND<1	188
	12/7/2015	ND<1	188
	6/13/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188

Rank Sum = 2256
Rank Mean = 188

Background Rank Sum = 4512
Background Rank Mean = 188

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	188
	6/9/2014	ND<1	188
	12/8/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/13/2016	ND<1	188
	12/8/2016	ND<1	188
	6/14/2017	ND<1	188
	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/17/2018	ND<1	188

	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-10	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-10A	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/17/2018	ND<1	188
	6/10/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-13	12/9/2013	ND<1	188
	6/9/2014	ND<1	188
	12/11/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/15/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	ND<1	188
	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-2	12/9/2013	ND<1	188
	6/12/2014	ND<1	188
	12/11/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188

	12/13/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-22	12/9/2013	ND<1	188
	6/10/2014	ND<1	188
	12/8/2014	ND<1	188
	6/22/2015	ND<1	188
	12/9/2015	ND<1	188
	6/15/2016	ND<1	188
	12/6/2016	ND<1	188
	6/14/2017	ND<1	188
	12/11/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-23	12/9/2013	ND<1	188
	6/12/2014	ND<1	188
	12/8/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188
	6/15/2016	ND<1	188
	12/6/2016	ND<1	188
	6/14/2017	ND<1	188
	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-23A	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/8/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188
	6/15/2016	ND<1	188
	12/6/2016	ND<1	188
	6/14/2017	ND<1	188
	12/11/2017	ND<1	188
	6/18/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-3	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/14/2016	ND<1	188

	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	6/21/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 1880			
Rank Mean = 188			
GWC-3A	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/11/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-4	12/9/2013	ND<1	188
	6/12/2014	ND<1	188
	12/11/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/16/2016	ND<1	188
	12/7/2016	ND<1	188
	6/20/2018	ND<1	188
Rank Sum = 1504			
Rank Mean = 188			
GWC-5	12/9/2013	ND<1	188
	6/10/2014	ND<1	188
	12/8/2014	ND<1	188
	6/24/2015	ND<1	188
	12/7/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/12/2017	ND<1	188
	12/12/2017	ND<1	188
	6/21/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-6	12/9/2013	ND<1	188
	6/10/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/12/2017	ND<1	188

	12/13/2017	ND<1	188
	6/21/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-7	12/9/2013	ND<1	188
	6/10/2014	ND<1	188
	12/8/2014	ND<1	188
	6/24/2015	ND<1	188
	12/7/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	ND<1	188
	6/12/2017	ND<1	188
	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-9	12/9/2013	ND<1	188
	6/11/2014	ND<1	188
	12/11/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188
	6/14/2016	ND<1	188
	12/8/2016	ND<1	188
	6/15/2017	ND<1	188
	12/13/2017	ND<1	188
	6/20/2018	ND<1	188
	12/18/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWA-1A	12/10/2013	ND<1	188
	6/10/2014	ND<1	188
	12/8/2014	ND<1	188
	6/23/2015	ND<1	188
	12/8/2015	ND<1	188
	6/14/2016	ND<1	188
	12/7/2016	ND<1	188
	6/12/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/10/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			
GWC-11	12/10/2013	ND<1	188
	6/9/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188

	6/14/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-12	12/10/2013	ND<1	188
	6/9/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/14/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-12A	12/10/2013	ND<1	188
	6/9/2014	ND<1	188
	12/9/2014	ND<1	188
	6/22/2015	ND<1	188
	12/7/2015	ND<1	188
	6/14/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-14	12/10/2013	ND<1	188
	6/11/2014	ND<1	188
	12/10/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/15/2016	ND<1	188
	6/13/2017	ND<1	188
	6/20/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 1692			
Rank Mean = 188			

GWC-24	12/10/2013	ND<1	188
	6/11/2014	ND<1	188
	12/10/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188

	6/13/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-15	12/11/2013	ND<1	188
	6/10/2014	ND<1	188
	12/10/2014	ND<1	188
	6/23/2015	ND<1	188
	12/9/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	2.8	381
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2449			
Rank Mean = 204.083			

GWC-17	12/11/2013	ND<1	188
	6/9/2014	ND<1	188
	12/10/2014	ND<1	188
	6/22/2015	ND<1	188
	12/8/2015	ND<1	188
	6/13/2016	ND<1	188
	6/14/2017	ND<1	188
	12/12/2017	ND<1	188
	6/19/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2068			
Rank Mean = 188			

GWC-18	12/11/2013	ND<1	188
	6/9/2014	ND<1	188
	12/10/2014	ND<1	188
	6/22/2015	ND<1	188
	12/9/2015	ND<1	188
	6/13/2016	ND<1	188
	12/6/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-19R	12/11/2013	ND<1	188
	6/10/2014	ND<1	188
	12/10/2014	ND<1	188

	6/22/2015	ND<1	188
	12/9/2015	ND<1	188
	6/15/2016	ND<1	188
	12/6/2016	ND<1	188
	6/14/2017	ND<1	188
	12/13/2017	ND<1	188
	6/19/2018	ND<1	188
	12/18/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-14A	12/12/2013	8.7	395
	6/11/2014	7.1	391
	12/10/2014	6.3	387
	6/23/2015	8.2	393
	12/9/2015	6.7	390
	6/15/2016	12	396
	12/8/2016	6.4	389
	6/13/2017	5.8	386
	12/12/2017	7.7	392
	6/20/2018	8.5	394
	12/19/2018	5.4	385
	6/11/2019	4.4	383
Rank Sum = 4681			
Rank Mean = 390.083			

GWC-14R	12/12/2013	2.2	376
	6/11/2014	ND<1	188
	12/10/2014	ND<1	188
	6/23/2015	ND<1	188
	12/10/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	ND<1	188
	6/13/2017	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2444			
Rank Mean = 203.667			

GWC-4A	12/12/2013	ND<1	188
	6/10/2014	ND<1	188
	12/11/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	ND<1	188
	6/16/2016	ND<1	188
	12/7/2016	ND<1	188
	6/13/2017	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/17/2018	ND<1	188
	6/11/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-8	12/12/2013	ND<1	188
	6/11/2014	ND<1	188
	12/10/2014	ND<1	188
	6/23/2015	ND<1	188
	12/10/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2068			
Rank Mean = 188			

GWC-8A	12/12/2013	ND<1	188
	6/11/2014	ND<1	188
	12/10/2014	ND<1	188
	6/24/2015	ND<1	188
	12/10/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	ND<1	188
	6/13/2017	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 2256			
Rank Mean = 188			

GWC-8R	12/12/2013	2.6	378
	6/11/2014	2.7	379
	12/10/2014	2.7	380
	6/23/2015	ND<1	188
	12/10/2015	ND<1	188
	6/15/2016	ND<1	188
	12/8/2016	2.2	377
	6/13/2017	ND<1	188
	12/12/2017	ND<1	188
	6/20/2018	ND<1	188
	12/19/2018	ND<1	188
	6/12/2019	ND<1	188
Rank Sum = 3018			
Rank Mean = 251.5			

GWC-16A	6/12/2014	4.5	384
	12/10/2014	ND<1	188
	6/24/2015	ND<1	188
	12/9/2015	6.3	388
	6/16/2016	ND<1	188
	12/7/2016	ND<1	188
	6/14/2017	3.3	382
	12/13/2017	ND<1	188
	6/21/2018	ND<1	188
	12/19/2018	ND<1	188
	6/13/2019	ND<1	188
Rank Sum = 2658			
Rank Mean = 241.636			

Calculation Results:

Kruskal-Wallis H Statistic = 40.6438
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 269.514
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
40.6438 < 46.1942 indicating no significant group difference at 5% significance level
269.514 > 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 188

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188	0	94.1414
GWC-10	188	0	94.1414
GWC-10A	188	0	94.1414
GWC-13	188	0	94.1414
GWC-2	188	0	94.1414
GWC-22	188	0	94.1414
GWC-23	188	0	94.1414
GWC-23A	188	0	94.1414
GWC-3	188	0	100.221
GWC-3A	188	0	94.1414
GWC-4	188	0	108.705
GWC-5	188	0	94.1414
GWC-6	188	0	94.1414
GWC-7	188	0	94.1414
GWC-9	188	0	94.1414
GWA-1A	188	0	94.1414
GWC-11	188	0	94.1414
GWC-12	188	0	94.1414
GWC-12A	188	0	94.1414
GWC-14	188	0	104.077
GWC-24	188	0	94.1414
GWC-15	204.083	16.0833	94.1414
GWC-17	188	0	96.9522
GWC-18	188	0	94.1414
GWC-19R	188	0	94.1414
GWC-14A	**390.083**	**202.083**	**94.1414**
GWC-14R	203.667	15.6667	94.1414
GWC-4A	188	0	94.1414
GWC-8	188	0	96.9522
GWC-8A	188	0	94.1414
GWC-8R	251.5	63.5	94.1414
GWC-16A	241.636	53.6364	96.9522

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 188

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	188	0	125.055
GWC-10	188	0	125.055
GWC-10A	188	0	125.055
GWC-13	188	0	125.055
GWC-2	188	0	125.055

GWC-22	188	0	125.055
GWC-23	188	0	125.055
GWC-23A	188	0	125.055
GWC-3	188	0	133.131
GWC-3A	188	0	125.055
GWC-4	188	0	144.401
GWC-5	188	0	125.055
GWC-6	188	0	125.055
GWC-7	188	0	125.055
GWC-9	188	0	125.055
GWA-1A	188	0	125.055
GWC-11	188	0	125.055
GWC-12	188	0	125.055
GWC-12A	188	0	125.055
GWC-14	188	0	138.253
GWC-24	188	0	125.055
GWC-15	204.083	16.0833	125.055
GWC-17	188	0	128.789
GWC-18	188	0	125.055
GWC-19R	188	0	125.055
GWC-14A	**390.083**	**202.083**	**125.055**
GWC-14R	203.667	15.6667	125.055
GWC-4A	188	0	125.055
GWC-8	188	0	128.789
GWC-8A	188	0	125.055
GWC-8R	251.5	63.5	125.055
GWC-16A	241.636	53.6364	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/23/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/13/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/10/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			
GWA-2	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/13/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/11/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			

Background Rank Sum = 3420
Background Rank Mean = 142.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/13/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/18/2018	ND<1	142.5
	12/17/2018	ND<1	142.5

	6/11/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			
GWC-10	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/10/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			
GWC-10A	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/10/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			
GWC-13	12/9/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/12/2019	ND<1	142.5
Rank Sum = 1710			
Rank Mean = 142.5			
GWC-2	12/9/2013	ND<1	142.5
	6/12/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5

	12/13/2017	ND<1	142.5
	6/20/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-22	12/9/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/6/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-23	12/9/2013	ND<1	142.5
	6/12/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/6/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/18/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-23A	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/6/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/11/2017	ND<1	142.5
	6/18/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-3	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/14/2016	ND<1	142.5

	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	6/21/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1425
Rank Mean = 142.5

GWC-3A	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/20/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-4	12/9/2013	ND<1	142.5
	6/12/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/16/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/20/2018	ND<1	142.5

Rank Sum = 1140
Rank Mean = 142.5

GWC-5	12/9/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/12/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/21/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-6	12/9/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/12/2017	ND<1	142.5

	12/13/2017	ND<1	142.5
	6/21/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-7	12/9/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/12/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-9	12/9/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/8/2016	ND<1	142.5
	6/15/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/20/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWA-1A	12/10/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/8/2014	ND<1	142.5
	6/23/2015	ND<1	142.5
	12/8/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/12/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/18/2018	ND<1	142.5
	6/10/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-11	12/10/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5

	6/14/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/12/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-12	12/10/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-12A	12/10/2013	ND<1	142.5
	6/9/2014	ND<1	142.5
	12/9/2014	ND<1	142.5
	6/22/2015	ND<1	142.5
	12/7/2015	ND<1	142.5
	6/14/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/14/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/19/2018	ND<1	142.5
	12/19/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-14	12/10/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/10/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	6/13/2017	ND<1	142.5
	6/20/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1282.5
Rank Mean = 142.5

GWC-24	12/10/2013	8.3	318
	6/11/2014	4.6	303
	12/10/2014	7.9	317
	6/22/2015	ND<1	142.5
	12/8/2015	2.4	287

	6/13/2016	5.2	310
	12/7/2016	5.4	311
	6/14/2017	ND<1	142.5
	12/13/2017	ND<1	142.5
	6/19/2018	2.2	286
	12/19/2018	3.7	298
	6/11/2019	4.4	300

Rank Sum = 3157.5
Rank Mean = 263.125

GWC-15	12/11/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/10/2014	13	328
	6/23/2015	ND<1	142.5
	12/9/2015	17	337
	6/15/2016	ND<1	142.5
	12/8/2016	110	396
	6/14/2017	10	323
	12/13/2017	11	325
	6/19/2018	2	285
	12/19/2018	2.9	291
	6/11/2019	97	395

Rank Sum = 3250
Rank Mean = 270.833

GWC-17	12/11/2013	49	388
	6/9/2014	4.9	307
	12/10/2014	24	361
	6/22/2015	10	324
	12/8/2015	45	386
	6/13/2016	41	384
	6/14/2017	8.4	319
	12/12/2017	17	338
	6/19/2018	4.7	304
	12/19/2018	8.7	320
	6/12/2019	ND<1	142.5

Rank Sum = 3573.5
Rank Mean = 324.864

GWC-18	12/11/2013	4.5	302
	6/9/2014	9.9	322
	12/10/2014	16	334
	6/22/2015	15	333
	12/9/2015	14	330
	6/13/2016	3.6	297
	12/6/2016	16	335
	6/14/2017	16	336
	12/13/2017	14	331
	6/19/2018	7.7	315
	12/18/2018	12	327
	6/11/2019	14	332

Rank Sum = 3894
Rank Mean = 324.5

GWC-19R	12/11/2013	17	339
	6/10/2014	6.9	313
	12/10/2014	11	326

	6/22/2015	6.8	312
	12/9/2015	4.7	305
	6/15/2016	9.3	321
	12/6/2016	13	329
	6/14/2017	2.4	288
	12/13/2017	4.7	306
	6/19/2018	5.1	309
	12/18/2018	2.9	292
	6/11/2019	7.7	316

Rank Sum = 3756
Rank Mean = 313

GWC-14A	12/12/2013	24	362
	6/11/2014	25	365
	12/10/2014	30	373
	6/23/2015	32	376
	12/9/2015	38	382
	6/15/2016	42	385
	12/8/2016	33	379
	6/13/2017	64	391
	12/12/2017	62	390
	6/20/2018	71	392
	12/19/2018	53	389
	6/11/2019	46	387

Rank Sum = 4571
Rank Mean = 380.917

GWC-14R	12/12/2013	27	369
	6/11/2014	30	374
	12/10/2014	27	370
	6/23/2015	22	357
	12/10/2015	20	350
	6/15/2016	25	366
	12/8/2016	19	344
	6/13/2017	26	368
	12/12/2017	20	351
	6/20/2018	24	363
	12/19/2018	17	340
	6/12/2019	21	352

Rank Sum = 4304
Rank Mean = 358.667

GWC-4A	12/12/2013	ND<1	142.5
	6/10/2014	ND<1	142.5
	12/11/2014	ND<1	142.5
	6/24/2015	ND<1	142.5
	12/9/2015	ND<1	142.5
	6/16/2016	ND<1	142.5
	12/7/2016	ND<1	142.5
	6/13/2017	ND<1	142.5
	12/12/2017	ND<1	142.5
	6/20/2018	ND<1	142.5
	12/17/2018	ND<1	142.5
	6/11/2019	ND<1	142.5

Rank Sum = 1710
Rank Mean = 142.5

GWC-8	12/12/2013	ND<1	142.5
	6/11/2014	ND<1	142.5
	12/10/2014	ND<1	142.5
	6/23/2015	ND<1	142.5
	12/10/2015	ND<1	142.5
	6/15/2016	ND<1	142.5
	12/8/2016	3.1	294
	12/12/2017	7.6	314
	6/20/2018	2.6	290
	12/19/2018	4.3	299
	6/12/2019	ND<1	142.5

Rank Sum = 2194.5
Rank Mean = 199.5

GWC-8A	12/12/2013	23	359
	6/11/2014	18	342
	12/10/2014	33	380
	6/24/2015	19	345
	12/10/2015	29	372
	6/15/2016	25	367
	12/8/2016	32	377
	6/13/2017	27	371
	12/12/2017	37	381
	6/20/2018	32	378
	12/19/2018	31	375
	6/12/2019	22	358

Rank Sum = 4405
Rank Mean = 367.083

GWC-8R	12/12/2013	21	353
	6/11/2014	19	346
	12/10/2014	19	347
	6/23/2015	19	348
	12/10/2015	19	349
	6/15/2016	21	354
	12/8/2016	17	341
	6/13/2017	23	360
	12/12/2017	21	355
	6/20/2018	24	364
	12/19/2018	18	343
	6/12/2019	21	356

Rank Sum = 4216
Rank Mean = 351.333

GWC-16A	6/12/2014	75	393
	12/10/2014	4.9	308
	6/24/2015	4.4	301
	12/9/2015	82	394
	6/16/2016	3.4	295
	12/7/2016	3.5	296
	6/14/2017	39	383
	12/13/2017	2.9	293
	6/21/2018	ND<1	142.5
	12/19/2018	2.5	289
	6/13/2019	ND<1	142.5

Rank Sum = 3237
Rank Mean = 294.273

Calculation Results:

Kruskal-Wallis H Statistic = 221.593
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 351.102
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
221.593 > 46.1942 indicating a significant group difference at 5% significance level
351.102 > 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 142.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	142.5	0	94.1414
GWC-10	142.5	0	94.1414
GWC-10A	142.5	0	94.1414
GWC-13	142.5	0	94.1414
GWC-2	142.5	0	94.1414
GWC-22	142.5	0	94.1414
GWC-23	142.5	0	94.1414
GWC-23A	142.5	0	94.1414
GWC-3	142.5	0	100.221
GWC-3A	142.5	0	94.1414
GWC-4	142.5	0	108.705
GWC-5	142.5	0	94.1414
GWC-6	142.5	0	94.1414
GWC-7	142.5	0	94.1414
GWC-9	142.5	0	94.1414
GWA-1A	142.5	0	94.1414
GWC-11	142.5	0	94.1414
GWC-12	142.5	0	94.1414
GWC-12A	142.5	0	94.1414
GWC-14	142.5	0	104.077
GWC-24	**263.125**	**120.625**	**94.1414**
GWC-15	**270.833**	**128.333**	**94.1414**
GWC-17	**324.864**	**182.364**	**96.9522**
GWC-18	**324.5**	**182**	**94.1414**
GWC-19R	**313**	**170.5**	**94.1414**
GWC-14A	**380.917**	**238.417**	**94.1414**
GWC-14R	**358.667**	**216.167**	**94.1414**
GWC-4A	142.5	0	94.1414
GWC-8	199.5	57	96.9522
GWC-8A	**367.083**	**224.583**	**94.1414**
GWC-8R	**351.333**	**208.833**	**94.1414**
GWC-16A	**294.273**	**151.773**	**96.9522**

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 142.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	142.5	0	125.055
GWC-10	142.5	0	125.055
GWC-10A	142.5	0	125.055
GWC-13	142.5	0	125.055
GWC-2	142.5	0	125.055

GWC-22	142.5	0	125.055
GWC-23	142.5	0	125.055
GWC-23A	142.5	0	125.055
GWC-3	142.5	0	133.131
GWC-3A	142.5	0	125.055
GWC-4	142.5	0	144.401
GWC-5	142.5	0	125.055
GWC-6	142.5	0	125.055
GWC-7	142.5	0	125.055
GWC-9	142.5	0	125.055
GWA-1A	142.5	0	125.055
GWC-11	142.5	0	125.055
GWC-12	142.5	0	125.055
GWC-12A	142.5	0	125.055
GWC-14	142.5	0	138.253
GWC-24	263.125	120.625	125.055
GWC-15	**270.833**	**128.333**	**125.055**
GWC-17	**324.864**	**182.364**	**128.789**
GWC-18	**324.5**	**182**	**125.055**
GWC-19R	**313**	**170.5**	**125.055**
GWC-14A	**380.917**	**238.417**	**125.055**
GWC-14R	**358.667**	**216.167**	**125.055**
GWC-4A	142.5	0	125.055
GWC-8	199.5	57	128.789
GWC-8A	**367.083**	**224.583**	**125.055**
GWC-8R	**351.333**	**208.833**	**125.055**
GWC-16A	**294.273**	**151.773**	**128.789**

Kruskal-Wallis Non-Parametric Test

Parameter: Methylene Chloride
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWA-2	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5
Rank Sum = 2370			
Rank Mean = 197.5			

Background Rank Sum = 4740
Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5

	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-10A	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-13	12/9/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-2	12/9/2013	ND<2.5	197.5
	6/12/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5

	12/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-22	12/9/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23	12/9/2013	ND<2.5	197.5
	6/12/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-23A	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/11/2017	ND<2.5	197.5
	6/18/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-3	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5

	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	12/9/2013	ND<2.5	197.5
	6/12/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5

Rank Sum = 1580
Rank Mean = 197.5

GWC-5	12/9/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	12/9/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5

	12/13/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	12/9/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	12/9/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/15/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWA-1A	12/10/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/8/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/12/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/10/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-11	12/10/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5

	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12	12/10/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12A	12/10/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/9/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/7/2015	ND<2.5	197.5
	6/14/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	12/10/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-24	12/10/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5

	6/13/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-15	12/11/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-17	12/11/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/8/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-18	12/11/2013	ND<2.5	197.5
	6/9/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/13/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	12/11/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5

	6/22/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/6/2016	ND<2.5	197.5
	6/14/2017	ND<2.5	197.5
	12/13/2017	ND<2.5	197.5
	6/19/2018	ND<2.5	197.5
	12/18/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14A	12/12/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	12/12/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	12/12/2013	ND<2.5	197.5
	6/10/2014	ND<2.5	197.5
	12/11/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/17/2018	ND<2.5	197.5
	6/11/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8	12/12/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	12/12/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	12/12/2013	ND<2.5	197.5
	6/11/2014	ND<2.5	197.5
	12/10/2014	ND<2.5	197.5
	6/23/2015	ND<2.5	197.5
	12/10/2015	ND<2.5	197.5
	6/15/2016	ND<2.5	197.5
	12/8/2016	ND<2.5	197.5
	6/13/2017	ND<2.5	197.5
	12/12/2017	ND<2.5	197.5
	6/20/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/12/2019	ND<2.5	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	9.5	396
	12/10/2014	ND<2.5	197.5
	6/24/2015	ND<2.5	197.5
	12/9/2015	ND<2.5	197.5
	6/16/2016	ND<2.5	197.5
	12/7/2016	ND<2.5	197.5
	6/14/2017	6.3	395
	12/13/2017	ND<2.5	197.5
	6/21/2018	ND<2.5	197.5
	12/19/2018	ND<2.5	197.5
	6/13/2019	ND<2.5	197.5

Rank Sum = 2568.5
Rank Mean = 233.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.05793
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 70.1772
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
1.05793 < 46.1942 indicating no significant group difference at 5% significance level
70.1772 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-2	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-4	197.5	0	108.705
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-24	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-16A	233.5	36	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-13	197.5	0	125.055
GWC-2	197.5	0	125.055

GWC-22	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-4	197.5	0	144.401
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-9	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-24	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-16A	233.5	36	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Sulfide
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank

Background Rank Sum = 0
Background Rank Mean = 0

Compliance Locations

Loc. ID	Date	Value	Rank
GWC-17	6/9/2014	ND<500	14.5
	6/22/2015	ND<500	14.5
	6/13/2016	ND<500	14.5
	6/12/2019	1800	34

Rank Sum = 77.5
Rank Mean = 19.375

GWC-18	6/9/2014	ND<500	14.5
	6/22/2015	ND<500	14.5
	6/13/2016	ND<500	14.5
	6/11/2019	1200	29

Rank Sum = 72.5
Rank Mean = 18.125

GWC-15	6/10/2014	ND<500	14.5
	6/23/2015	ND<500	14.5
	6/15/2016	ND<500	14.5
	6/11/2019	1300	32

Rank Sum = 75.5
Rank Mean = 18.875

GWC-19R	6/10/2014	ND<500	14.5
	6/22/2015	ND<500	14.5
	6/15/2016	ND<500	14.5
	6/11/2019	ND<405	14.5

Rank Sum = 58
Rank Mean = 14.5

GWC-14A	6/11/2014	ND<500	14.5
	6/23/2015	ND<500	14.5
	6/15/2016	ND<500	14.5
	6/11/2019	ND<405	14.5

Rank Sum = 58
Rank Mean = 14.5

GWC-24	6/11/2014	ND<500	14.5
	6/22/2015	ND<500	14.5
	6/13/2016	ND<500	14.5
	6/11/2019	1400	33

Rank Sum = 76.5
Rank Mean = 19.125

GWC-8	6/11/2014	ND<500	14.5
	6/23/2015	ND<500	14.5

Rank Sum = 29
Rank Mean = 14.5

GWC-8A	6/11/2014	ND<500	14.5
	6/24/2015	ND<500	14.5
	6/15/2016	ND<500	14.5
	6/12/2019	1200	30

Rank Sum = 73.5
Rank Mean = 18.375

GWC-16A	6/12/2014	ND<500	14.5
	6/24/2015	ND<500	14.5
	6/16/2016	ND<500	14.5
	6/13/2019	1200	31

Rank Sum = 74.5
Rank Mean = 18.625

Calculation Results:

Kruskal-Wallis H Statistic = 1.32983
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 3.01064
95% Confidence comparison value is 16.919 at 9 degrees of freedom
1.32983 < 16.919 indicating no significant group difference at 5% significance level
3.01064 < 16.919 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	179
	6/9/2014	ND<1	179
	12/8/2014	ND<1	179
	6/23/2015	ND<1	179
	12/8/2015	ND<1	179
	6/14/2016	ND<1	179
	12/7/2016	ND<1	179
	6/13/2017	ND<1	179
	12/11/2017	ND<1	179
	6/19/2018	ND<1	179
	12/17/2018	ND<1	179
	6/10/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWA-2	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/9/2014	ND<1	179
	6/24/2015	ND<1	179
	12/7/2015	ND<1	179
	6/13/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	12/11/2017	ND<1	179
	6/19/2018	ND<1	179
	12/17/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

Background Rank Sum = 4296
Background Rank Mean = 179

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	179
	6/9/2014	ND<1	179
	12/8/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/13/2016	ND<1	179
	12/8/2016	ND<1	179
	6/14/2017	ND<1	179
	12/11/2017	ND<1	179
	6/18/2018	ND<1	179
	12/17/2018	ND<1	179

	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-10	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	12/12/2017	ND<1	179
	6/19/2018	ND<1	179
	12/17/2018	ND<1	179
	6/10/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-10A	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	12/12/2017	ND<1	179
	6/19/2018	ND<1	179
	12/17/2018	ND<1	179
	6/10/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-13	12/9/2013	ND<1	179
	6/9/2014	ND<1	179
	12/11/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/15/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	ND<1	179
	12/12/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-2	12/9/2013	ND<1	179
	6/12/2014	ND<1	179
	12/11/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179

	12/13/2017	ND<1	179
	6/20/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-22	12/9/2013	ND<1	179
	6/10/2014	ND<1	179
	12/8/2014	ND<1	179
	6/22/2015	ND<1	179
	12/9/2015	ND<1	179
	6/15/2016	ND<1	179
	12/6/2016	ND<1	179
	6/14/2017	ND<1	179
	12/11/2017	ND<1	179
	6/19/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-23	12/9/2013	ND<1	179
	6/12/2014	ND<1	179
	12/8/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179
	6/15/2016	ND<1	179
	12/6/2016	ND<1	179
	6/14/2017	ND<1	179
	12/11/2017	ND<1	179
	6/18/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-23A	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/8/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179
	6/15/2016	ND<1	179
	12/6/2016	ND<1	179
	6/14/2017	ND<1	179
	12/11/2017	ND<1	179
	6/18/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-3	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/14/2016	ND<1	179

	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	6/21/2018	ND<1	179
	12/17/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 1790			
Rank Mean = 179			

GWC-3A	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/11/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	ND<1	179
	12/17/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-4	12/9/2013	ND<1	179
	6/12/2014	ND<1	179
	12/11/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/16/2016	ND<1	179
	12/7/2016	ND<1	179
	6/20/2018	ND<1	179
Rank Sum = 1432			
Rank Mean = 179			

GWC-5	12/9/2013	ND<1	179
	6/10/2014	ND<1	179
	12/8/2014	ND<1	179
	6/24/2015	ND<1	179
	12/7/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/12/2017	ND<1	179
	12/12/2017	ND<1	179
	6/21/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-6	12/9/2013	ND<1	179
	6/10/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/12/2017	ND<1	179

	12/13/2017	ND<1	179
	6/21/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-7	12/9/2013	ND<1	179
	6/10/2014	ND<1	179
	12/8/2014	ND<1	179
	6/24/2015	ND<1	179
	12/7/2015	ND<1	179
	6/15/2016	ND<1	179
	12/8/2016	ND<1	179
	6/12/2017	ND<1	179
	12/12/2017	ND<1	179
	6/19/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-9	12/9/2013	ND<1	179
	6/11/2014	ND<1	179
	12/11/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179
	6/14/2016	ND<1	179
	12/8/2016	ND<1	179
	6/15/2017	ND<1	179
	12/13/2017	ND<1	179
	6/20/2018	ND<1	179
	12/18/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWA-1A	12/10/2013	ND<1	179
	6/10/2014	ND<1	179
	12/8/2014	ND<1	179
	6/23/2015	ND<1	179
	12/8/2015	ND<1	179
	6/14/2016	ND<1	179
	12/7/2016	ND<1	179
	6/12/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/18/2018	ND<1	179
	6/10/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-11	12/10/2013	ND<1	179
	6/9/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179

	6/14/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-12	12/10/2013	ND<1	179
	6/9/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/14/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-12A	12/10/2013	ND<1	179
	6/9/2014	ND<1	179
	12/9/2014	ND<1	179
	6/22/2015	ND<1	179
	12/7/2015	ND<1	179
	6/14/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			
GWC-14	12/10/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/15/2016	ND<1	179
	6/13/2017	ND<1	179
	6/20/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 1611			
Rank Mean = 179			
GWC-24	12/10/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179

	6/13/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-15	12/11/2013	12	391
	6/10/2014	17	395
	12/10/2014	8.5	385
	6/23/2015	11	390
	12/9/2015	6.1	379
	6/15/2016	9	386
	12/8/2016	16	394
	6/14/2017	7.3	384
	12/13/2017	2.7	365
	6/19/2018	5	376
	12/19/2018	9.7	388
	6/11/2019	50	396
Rank Sum = 4629			
Rank Mean = 385.75			

GWC-17	12/11/2013	ND<1	179
	6/9/2014	ND<1	179
	12/10/2014	ND<1	179
	6/22/2015	ND<1	179
	12/8/2015	ND<1	179
	6/13/2016	ND<1	179
	6/14/2017	ND<1	179
	12/12/2017	ND<1	179
	6/19/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 1969			
Rank Mean = 179			

GWC-18	12/11/2013	5.6	377
	6/9/2014	14	392
	12/10/2014	14	393
	6/22/2015	10	389
	12/9/2015	9	387
	6/13/2016	4	371
	12/6/2016	6.6	382
	6/14/2017	4.1	372
	12/13/2017	6.5	381
	6/19/2018	4.6	375
	12/18/2018	7	383
	6/11/2019	3.9	370
Rank Sum = 4572			
Rank Mean = 381			

GWC-19R	12/11/2013	2	358
	6/10/2014	ND<1	179
	12/10/2014	ND<1	179

	6/22/2015	ND<1	179
	12/9/2015	ND<1	179
	6/15/2016	ND<1	179
	12/6/2016	ND<1	179
	6/14/2017	ND<1	179
	12/13/2017	ND<1	179
	6/19/2018	ND<1	179
	12/18/2018	2	359
	6/11/2019	ND<1	179
Rank Sum = 2507			
Rank Mean = 208.917			

GWC-14A	12/12/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/23/2015	ND<1	179
	12/9/2015	ND<1	179
	6/15/2016	ND<1	179
	12/8/2016	ND<1	179
	6/13/2017	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	ND<1	179
	12/19/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-14R	12/12/2013	4.1	373
	6/11/2014	5.9	378
	12/10/2014	4.4	374
	6/23/2015	3.5	368
	12/10/2015	2.8	366
	6/15/2016	2.2	363
	12/8/2016	2.5	364
	6/13/2017	3.2	367
	12/12/2017	2	360
	6/20/2018	2	361
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179
Rank Sum = 4032			
Rank Mean = 336			

GWC-4A	12/12/2013	ND<1	179
	6/10/2014	ND<1	179
	12/11/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	ND<1	179
	6/16/2016	ND<1	179
	12/7/2016	ND<1	179
	6/13/2017	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	ND<1	179
	12/17/2018	ND<1	179
	6/11/2019	ND<1	179
Rank Sum = 2148			
Rank Mean = 179			

GWC-8	12/12/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/23/2015	ND<1	179
	12/10/2015	ND<1	179
	6/15/2016	ND<1	179
	12/8/2016	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179

Rank Sum = 1969
Rank Mean = 179

GWC-8A	12/12/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/24/2015	ND<1	179
	12/10/2015	ND<1	179
	6/15/2016	ND<1	179
	12/8/2016	ND<1	179
	6/13/2017	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	ND<1	179
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179

Rank Sum = 2148
Rank Mean = 179

GWC-8R	12/12/2013	ND<1	179
	6/11/2014	ND<1	179
	12/10/2014	ND<1	179
	6/23/2015	ND<1	179
	12/10/2015	ND<1	179
	6/15/2016	ND<1	179
	12/8/2016	ND<1	179
	6/13/2017	ND<1	179
	12/12/2017	ND<1	179
	6/20/2018	2	362
	12/19/2018	ND<1	179
	6/12/2019	ND<1	179

Rank Sum = 2331
Rank Mean = 194.25

GWC-16A	6/12/2014	ND<1	179
	12/10/2014	ND<1	179
	6/24/2015	ND<1	179
	12/9/2015	3.7	369
	6/16/2016	ND<1	179
	12/7/2016	ND<1	179
	6/14/2017	6.3	380
	12/13/2017	ND<1	179
	6/21/2018	ND<1	179
	12/19/2018	ND<1	179
	6/13/2019	ND<1	179

Rank Sum = 2360
Rank Mean = 214.545

Calculation Results:

Kruskal-Wallis H Statistic = 89.7056
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 335.583
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
89.7056 > 46.1942 indicating a significant group difference at 5% significance level
335.583 > 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 179

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	179	0	94.1414
GWC-10	179	0	94.1414
GWC-10A	179	0	94.1414
GWC-13	179	0	94.1414
GWC-2	179	0	94.1414
GWC-22	179	0	94.1414
GWC-23	179	0	94.1414
GWC-23A	179	0	94.1414
GWC-3	179	0	100.221
GWC-3A	179	0	94.1414
GWC-4	179	0	108.705
GWC-5	179	0	94.1414
GWC-6	179	0	94.1414
GWC-7	179	0	94.1414
GWC-9	179	0	94.1414
GWA-1A	179	0	94.1414
GWC-11	179	0	94.1414
GWC-12	179	0	94.1414
GWC-12A	179	0	94.1414
GWC-14	179	0	104.077
GWC-24	179	0	94.1414
GWC-15	**385.75**	**206.75**	**94.1414**
GWC-17	179	0	96.9522
GWC-18	**381**	**202**	**94.1414**
GWC-19R	208.917	29.9167	94.1414
GWC-14A	179	0	94.1414
GWC-14R	**336**	**157**	**94.1414**
GWC-4A	179	0	94.1414
GWC-8	179	0	96.9522
GWC-8A	179	0	94.1414
GWC-8R	194.25	15.25	94.1414
GWC-16A	214.545	35.5455	96.9522

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 179

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	179	0	125.055
GWC-10	179	0	125.055
GWC-10A	179	0	125.055
GWC-13	179	0	125.055
GWC-2	179	0	125.055

GWC-22	179	0	125.055
GWC-23	179	0	125.055
GWC-23A	179	0	125.055
GWC-3	179	0	133.131
GWC-3A	179	0	125.055
GWC-4	179	0	144.401
GWC-5	179	0	125.055
GWC-6	179	0	125.055
GWC-7	179	0	125.055
GWC-9	179	0	125.055
GWA-1A	179	0	125.055
GWC-11	179	0	125.055
GWC-12	179	0	125.055
GWC-12A	179	0	125.055
GWC-14	179	0	138.253
GWC-24	179	0	125.055
GWC-15	**385.75**	**206.75**	**125.055**
GWC-17	179	0	128.789
GWC-18	**381**	**202**	**125.055**
GWC-19R	208.917	29.9167	125.055
GWC-14A	179	0	125.055
GWC-14R	**336**	**157**	**125.055**
GWC-4A	179	0	125.055
GWC-8	179	0	128.789
GWC-8A	179	0	125.055
GWC-8R	194.25	15.25	125.055
GWC-16A	214.545	35.5455	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWA-2	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

Background Rank Sum = 4740
Background Rank Mean = 197.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/17/2018	ND<1	197.5

	6/11/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-10	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-10A	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/10/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-13	12/9/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-2	12/9/2013	ND<1	197.5
	6/12/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5

	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-22	12/9/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-23	12/9/2013	ND<1	197.5
	6/12/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-23A	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/11/2017	ND<1	197.5
	6/18/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5
Rank Sum = 2370			
Rank Mean = 197.5			
GWC-3	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5

	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 1975
Rank Mean = 197.5

GWC-3A	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4	12/9/2013	ND<1	197.5
	6/12/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/20/2018	ND<1	197.5

Rank Sum = 1580
Rank Mean = 197.5

GWC-5	12/9/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-6	12/9/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5

	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-7	12/9/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-9	12/9/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/15/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWA-1A	12/10/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/8/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/12/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/10/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-11	12/10/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5

	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12	12/10/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-12A	12/10/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/9/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/7/2015	ND<1	197.5
	6/14/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14	12/10/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 1777.5
Rank Mean = 197.5

GWC-24	12/10/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5

	6/13/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-15	12/11/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-17	12/11/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/8/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-18	12/11/2013	ND<1	197.5
	6/9/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/13/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-19R	12/11/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/10/2014	ND<1	197.5

	6/22/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/6/2016	ND<1	197.5
	6/14/2017	ND<1	197.5
	12/13/2017	ND<1	197.5
	6/19/2018	ND<1	197.5
	12/18/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14A	12/12/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-14R	12/12/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-4A	12/12/2013	ND<1	197.5
	6/10/2014	ND<1	197.5
	12/11/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	ND<1	197.5
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/17/2018	ND<1	197.5
	6/11/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8	12/12/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2172.5
Rank Mean = 197.5

GWC-8A	12/12/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-8R	12/12/2013	ND<1	197.5
	6/11/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/23/2015	ND<1	197.5
	12/10/2015	ND<1	197.5
	6/15/2016	ND<1	197.5
	12/8/2016	ND<1	197.5
	6/13/2017	ND<1	197.5
	12/12/2017	ND<1	197.5
	6/20/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/12/2019	ND<1	197.5

Rank Sum = 2370
Rank Mean = 197.5

GWC-16A	6/12/2014	ND<1	197.5
	12/10/2014	ND<1	197.5
	6/24/2015	ND<1	197.5
	12/9/2015	4.3	396
	6/16/2016	ND<1	197.5
	12/7/2016	ND<1	197.5
	6/14/2017	3.2	395
	12/13/2017	ND<1	197.5
	6/21/2018	ND<1	197.5
	12/19/2018	ND<1	197.5
	6/13/2019	ND<1	197.5

Rank Sum = 2568.5
Rank Mean = 233.5

Calculation Results:

Kruskal-Wallis H Statistic = 1.05793
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 70.1772
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
1.05793 < 46.1942 indicating no significant group difference at 5% significance level
70.1772 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	94.1414
GWC-10	197.5	0	94.1414
GWC-10A	197.5	0	94.1414
GWC-13	197.5	0	94.1414
GWC-2	197.5	0	94.1414
GWC-22	197.5	0	94.1414
GWC-23	197.5	0	94.1414
GWC-23A	197.5	0	94.1414
GWC-3	197.5	0	100.221
GWC-3A	197.5	0	94.1414
GWC-4	197.5	0	108.705
GWC-5	197.5	0	94.1414
GWC-6	197.5	0	94.1414
GWC-7	197.5	0	94.1414
GWC-9	197.5	0	94.1414
GWA-1A	197.5	0	94.1414
GWC-11	197.5	0	94.1414
GWC-12	197.5	0	94.1414
GWC-12A	197.5	0	94.1414
GWC-14	197.5	0	104.077
GWC-24	197.5	0	94.1414
GWC-15	197.5	0	94.1414
GWC-17	197.5	0	96.9522
GWC-18	197.5	0	94.1414
GWC-19R	197.5	0	94.1414
GWC-14A	197.5	0	94.1414
GWC-14R	197.5	0	94.1414
GWC-4A	197.5	0	94.1414
GWC-8	197.5	0	96.9522
GWC-8A	197.5	0	94.1414
GWC-8R	197.5	0	94.1414
GWC-16A	233.5	36	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 197.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	197.5	0	125.055
GWC-10	197.5	0	125.055
GWC-10A	197.5	0	125.055
GWC-13	197.5	0	125.055
GWC-2	197.5	0	125.055

GWC-22	197.5	0	125.055
GWC-23	197.5	0	125.055
GWC-23A	197.5	0	125.055
GWC-3	197.5	0	133.131
GWC-3A	197.5	0	125.055
GWC-4	197.5	0	144.401
GWC-5	197.5	0	125.055
GWC-6	197.5	0	125.055
GWC-7	197.5	0	125.055
GWC-9	197.5	0	125.055
GWA-1A	197.5	0	125.055
GWC-11	197.5	0	125.055
GWC-12	197.5	0	125.055
GWC-12A	197.5	0	125.055
GWC-14	197.5	0	138.253
GWC-24	197.5	0	125.055
GWC-15	197.5	0	125.055
GWC-17	197.5	0	128.789
GWC-18	197.5	0	125.055
GWC-19R	197.5	0	125.055
GWC-14A	197.5	0	125.055
GWC-14R	197.5	0	125.055
GWC-4A	197.5	0	125.055
GWC-8	197.5	0	128.789
GWC-8A	197.5	0	125.055
GWC-8R	197.5	0	125.055
GWC-16A	233.5	36	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Total Barium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/10/2013	ND<10	60.5
	6/10/2014	28	189
	12/9/2014	24	159
	6/24/2015	22	139
	12/9/2015	22	140
	6/15/2016	29	197
	12/8/2016	26	177
	6/14/2017	28	190
	12/12/2017	27	183
	6/20/2018	32	208
	12/18/2018	28	191
	6/11/2019	28	192
Rank Sum = 2025.5			
Rank Mean = 168.792			
GWA-2	12/10/2013	22	141
	6/12/2014	20	121
	12/10/2014	24	160
	6/25/2015	23	151
	12/8/2015	26	178
	6/14/2016	36	233
	12/9/2016	ND<10	60.5
	6/16/2017	26	179
	12/12/2017	25	171
	6/20/2018	23	152
	12/18/2018	32	209
	6/12/2019	23	153
Rank Sum = 1908.5			
Rank Mean = 159.042			

Background Rank Sum = 3934
Background Rank Mean = 163.917

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/10/2013	35	226
	6/10/2014	31	204
	12/8/2014	38	240
	6/23/2015	38	241
	12/8/2015	34	219
	6/14/2016	35	227
	12/7/2016	33	213
	6/12/2017	36	234
	12/13/2017	33	214
	6/20/2018	30	202
	12/18/2018	32	210

	6/10/2019	41	257
Rank Sum = 2687			
Rank Mean = 223.917			
GWA-3	12/10/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/9/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/8/2015	ND<10	60.5
	6/14/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/15/2017	ND<10	60.5
	12/12/2017	ND<10	60.5
	6/19/2018	ND<10	60.5
	12/18/2018	ND<10	60.5
	6/12/2019	ND<10	60.5
Rank Sum = 726			
Rank Mean = 60.5			
GWC-10	12/10/2013	ND<10	60.5
	6/12/2014	ND<10	60.5
	12/10/2014	ND<10	60.5
	6/23/2015	22	142
	12/8/2015	ND<10	60.5
	6/15/2016	21	131
	12/9/2016	20	122
	6/16/2017	20	123
	12/13/2017	48	276
	6/20/2018	ND<10	60.5
	12/18/2018	ND<10	60.5
	6/11/2019	22	143
Rank Sum = 1300			
Rank Mean = 108.333			
GWC-10A	12/10/2013	21	132
	6/12/2014	20	124
	12/10/2014	27	184
	6/23/2015	27	185
	12/8/2015	27	186
	6/15/2016	29	198
	12/9/2016	31	205
	6/16/2017	31	206
	12/13/2017	32	211
	6/20/2018	34	220
	12/18/2018	35	228
	6/11/2019	33	215
Rank Sum = 2294			
Rank Mean = 191.167			
GWC-13	12/10/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/12/2014	31	207
	6/23/2015	37	237
	12/8/2015	34	221
	6/16/2016	ND<10	60.5
	12/8/2016	ND<10	60.5
	6/15/2017	ND<10	60.5

	12/13/2017	ND<10	60.5
	6/20/2018	36	235
	12/20/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 1384
Rank Mean = 115.333

GWC-2	12/10/2013	ND<10	60.5
	6/13/2014	ND<10	60.5
	12/12/2014	22	144
	6/25/2015	ND<10	60.5
	12/10/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/16/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/21/2018	ND<10	60.5
	12/20/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 809.5
Rank Mean = 67.4583

GWC-22	12/10/2013	ND<10	60.5
	6/11/2014	40	251
	12/9/2014	23	154
	6/23/2015	24	161
	12/10/2015	24	162
	6/16/2016	25	172
	12/7/2016	23	155
	6/15/2017	28	193
	12/12/2017	ND<10	60.5
	6/20/2018	24	163
	12/19/2018	21	133
	6/13/2019	21	134

Rank Sum = 1799
Rank Mean = 149.917

GWC-23	12/10/2013	24	164
	6/12/2014	ND<10	60.5
	12/9/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/16/2016	ND<10	60.5
	12/7/2016	ND<10	60.5
	6/15/2017	ND<10	60.5
	12/12/2017	ND<10	60.5
	6/19/2018	ND<10	60.5
	12/19/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 829.5
Rank Mean = 69.125

GWC-23A	12/10/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/8/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5

	6/15/2016	20	125
	12/7/2016	ND<10	60.5
	6/15/2017	ND<10	60.5
	12/12/2017	ND<10	60.5
	6/19/2018	ND<10	60.5
	12/19/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 790.5
Rank Mean = 65.875

GWC-3	12/10/2013	ND<10	60.5
	6/12/2014	21	135
	6/25/2015	ND<10	60.5
	12/10/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	6/21/2018	ND<10	60.5
	12/18/2018	ND<10	60.5
	6/12/2019	ND<10	60.5

Rank Sum = 558.5
Rank Mean = 69.8125

GWC-3A	12/10/2013	38	242
	6/12/2014	33	216
	12/12/2014	40	252
	6/25/2015	39	248
	12/10/2015	40	253
	6/15/2016	38	243
	12/9/2016	43	264
	6/16/2017	40	254
	12/13/2017	38	244
	6/21/2018	39	249
	12/18/2018	38	245
	6/12/2019	46	270

Rank Sum = 2980
Rank Mean = 248.333

GWC-4	12/10/2013	28	194
	6/13/2014	21	136
	12/12/2014	24	165
	6/25/2015	24	166
	12/10/2015	23	156
	6/17/2016	24	167
	12/8/2016	25	173
	6/21/2018	20	126

Rank Sum = 1283
Rank Mean = 160.375

GWC-5	12/10/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/9/2014	ND<10	60.5
	6/25/2015	ND<10	60.5
	12/8/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/13/2017	ND<10	60.5
	12/13/2017	ND<10	60.5
	6/21/2018	ND<10	60.5

	12/19/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 726
Rank Mean = 60.5

GWC-6	12/10/2013	ND<10	60.5
	6/11/2014	ND<10	60.5
	12/10/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/9/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	12/9/2016	ND<10	60.5
	6/13/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/21/2018	37	238
	12/20/2018	ND<10	60.5
	6/13/2019	ND<10	60.5

Rank Sum = 903.5
Rank Mean = 75.2917

GWC-7	12/10/2013	52	284
	6/11/2014	52	285
	12/9/2014	55	292
	6/25/2015	54	290
	12/8/2015	47	274
	6/16/2016	46	271
	12/9/2016	46	272
	6/13/2017	52	286
	12/13/2017	46	273
	6/20/2018	49	278
	12/19/2018	51	282
	6/13/2019	48	277

Rank Sum = 3364
Rank Mean = 280.333

GWC-9	12/10/2013	92	319
	6/12/2014	89	317
	12/12/2014	59	298
	6/23/2015	110	330
	12/9/2015	52	287
	6/15/2016	80	312
	12/9/2016	67	308
	6/16/2017	58	295
	12/14/2017	54	291
	6/21/2018	73	310
	12/19/2018	53	289
	6/13/2019	80	313

Rank Sum = 3669
Rank Mean = 305.75

GWC-11	12/11/2013	22	145
	6/10/2014	28	195
	12/10/2014	25	174
	6/23/2015	28	196
	12/8/2015	27	187
	6/15/2016	24	168
	12/8/2016	22	146

	6/15/2017	24	169
	12/14/2017	42	262
	6/20/2018	21	137
	12/20/2018	ND<10	60.5
	6/13/2019	40	255

Rank Sum = 2094.5
Rank Mean = 174.542

GWC-12	12/11/2013	ND<10	60.5
	6/10/2014	34	222
	12/10/2014	21	138
	6/23/2015	26	180
	12/8/2015	ND<10	60.5
	6/15/2016	20	127
	12/8/2016	ND<10	60.5
	6/15/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/20/2018	ND<10	60.5
	12/20/2018	34	223
	6/12/2019	20	128

Rank Sum = 1381
Rank Mean = 115.083

GWC-12A	12/11/2013	ND<10	60.5
	6/10/2014	ND<10	60.5
	12/10/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	12/8/2015	ND<10	60.5
	6/15/2016	ND<10	60.5
	12/8/2016	ND<10	60.5
	6/15/2017	ND<10	60.5
	12/14/2017	ND<10	60.5
	6/20/2018	ND<10	60.5
	12/20/2018	ND<10	60.5
	6/12/2019	ND<10	60.5

Rank Sum = 726
Rank Mean = 60.5

GWC-14	12/11/2013	47	275
	6/11/2014	29	199
	12/11/2014	52	288
	6/24/2015	58	296
	12/10/2015	62	303
	6/15/2016	26	181
	6/21/2018	35	229
	6/12/2019	35	230

Rank Sum = 2001
Rank Mean = 250.125

GWC-15	12/12/2013	93	320
	6/11/2014	23	157
	12/11/2014	63	304
	6/24/2015	87	316
	12/9/2015	94	322
	6/16/2016	61	302
	12/8/2016	60	300
	6/14/2017	120	331

	12/14/2017	99	327
	6/20/2018	98	326
	12/19/2018	58	297
	6/11/2019	60	301

Rank Sum = 3603
Rank Mean = 300.25

GWC-17	12/12/2013	50	280
	6/10/2014	37	239
	12/11/2014	65	306
	6/23/2015	43	265
	12/8/2015	41	258
	6/14/2016	38	246
	6/15/2017	45	268
	12/13/2017	35	231
	6/20/2018	34	224
	12/20/2018	69	309
	6/13/2019	43	266

Rank Sum = 2892
Rank Mean = 262.909

GWC-18	12/12/2013	200	350
	6/10/2014	170	340
	12/11/2014	160	338
	6/23/2015	220	356
	12/10/2015	140	335
	6/14/2016	250	360
	12/7/2016	180	344
	6/15/2017	180	345
	12/14/2017	150	337
	6/20/2018	280	362
	12/19/2018	140	336
	6/12/2019	230	359

Rank Sum = 4162
Rank Mean = 346.833

GWC-19R	12/12/2013	100	328
	6/11/2014	91	318
	12/11/2014	120	332
	6/23/2015	94	323
	12/10/2015	100	329
	6/16/2016	93	321
	12/7/2016	130	334
	6/15/2017	97	324
	12/14/2017	120	333
	6/20/2018	81	314
	12/19/2018	160	339
	6/12/2019	97	325

Rank Sum = 3920
Rank Mean = 326.667

GWC-4A	12/12/2013	ND<10	60.5
	6/11/2014	64	305
	12/12/2014	45	269
	6/25/2015	22	147
	12/10/2015	39	250
	6/17/2016	ND<10	60.5

	12/8/2016	59	299
	6/14/2017	33	217
	12/13/2017	81	315
	6/21/2018	22	148
	12/18/2018	25	175
	6/12/2019	74	311

Rank Sum = 2557
Rank Mean = 213.083

GWC-14A	12/13/2013	170	341
	6/11/2014	190	348
	12/10/2014	220	357
	6/24/2015	210	353
	12/10/2015	200	351
	6/16/2016	200	352
	12/8/2016	220	358
	6/13/2017	210	354
	12/13/2017	180	346
	6/21/2018	190	349
	12/19/2018	180	347
	6/12/2019	170	342

Rank Sum = 4198
Rank Mean = 349.833

GWC-8	12/13/2013	49	279
	6/12/2014	38	247
	12/11/2014	25	176
	6/24/2015	20	129
	12/10/2015	ND<10	60.5
	6/16/2016	22	149
	12/9/2016	22	150
	12/13/2017	23	158
	6/21/2018	ND<10	60.5
	6/13/2019	30	203

Rank Sum = 1612
Rank Mean = 161.2

GWC-8A	12/13/2013	36	236
	6/12/2014	41	259
	12/11/2014	43	267
	6/24/2015	50	281
	12/10/2015	41	260
	6/16/2016	40	256
	12/9/2016	55	293
	6/14/2017	66	307
	12/13/2017	42	263
	6/21/2018	51	283
	12/20/2018	55	294
	6/13/2019	33	218

Rank Sum = 3217
Rank Mean = 268.083

GWC-24	6/12/2014	ND<10	60.5
	6/23/2015	ND<10	60.5
	6/14/2016	27	188
	6/15/2017	ND<10	60.5
	6/20/2018	ND<10	60.5

	6/12/2019	20	130

Rank Sum = 560
Rank Mean = 93.3333

GWC-16A	6/13/2014	210	355
	12/11/2014	32	212
	6/24/2015	41	261
	12/10/2015	260	361
	6/17/2016	29	200
	12/8/2016	35	232
	6/15/2017	170	343
	12/14/2017	29	201
	6/21/2018	34	225
	12/20/2018	24	170
	6/13/2019	26	182

Rank Sum = 2742
Rank Mean = 249.273

Calculation Results:

Kruskal-Wallis H Statistic = 292.795
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 303.863
95% Confidence comparison value is 43.773 at 30 degrees of freedom
292.795 > 43.773 indicating a significant group difference at 5% significance level
303.863 > 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 163.917

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	223.917	60	86.0688
GWA-3	60.5	-103.417	86.0688
GWC-10	108.333	-55.5833	86.0688
GWC-10A	191.167	27.25	86.0688
GWC-13	115.333	-48.5833	86.0688
GWC-2	67.4583	-96.4583	86.0688
GWC-22	149.917	-14	86.0688
GWC-23	69.125	-94.7917	86.0688
GWC-23A	65.875	-98.0417	86.0688
GWC-3	69.8125	-94.1042	99.3836
GWC-3A	248.333	84.4167	86.0688
GWC-4	160.375	-3.54167	99.3836
GWC-5	60.5	-103.417	86.0688
GWC-6	75.2917	-88.625	86.0688
GWC-7	**280.333**	**116.417**	**86.0688**
GWC-9	**305.75**	**141.833**	**86.0688**
GWC-11	174.542	10.625	86.0688
GWC-12	115.083	-48.8333	86.0688
GWC-12A	60.5	-103.417	86.0688
GWC-14	250.125	86.2083	99.3836
GWC-15	**300.25**	**136.333**	**86.0688**
GWC-17	**262.909**	**98.9924**	**88.6385**
GWC-18	**346.833**	**182.917**	**86.0688**
GWC-19R	**326.667**	**162.75**	**86.0688**
GWC-4A	213.083	49.1667	86.0688
GWC-14A	**349.833**	**185.917**	**86.0688**

GWC-8	161.2	-2.71667	91.6272
GWC-8A	**268.083**	**104.167**	**86.0688**
GWC-24	93.3333	-70.5833	111.114
GWC-16A	249.273	85.3561	88.6385

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 163.917

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	223.917	60	114.331
GWA-3	60.5	-103.417	114.331
GWC-10	108.333	-55.5833	114.331
GWC-10A	191.167	27.25	114.331
GWC-13	115.333	-48.5833	114.331
GWC-2	67.4583	-96.4583	114.331
GWC-22	149.917	-14	114.331
GWC-23	69.125	-94.7917	114.331
GWC-23A	65.875	-98.0417	114.331
GWC-3	69.8125	-94.1042	132.018
GWC-3A	248.333	84.4167	114.331
GWC-4	160.375	-3.54167	132.018
GWC-5	60.5	-103.417	114.331
GWC-6	75.2917	-88.625	114.331
GWC-7	**280.333**	**116.417**	**114.331**
GWC-9	**305.75**	**141.833**	**114.331**
GWC-11	174.542	10.625	114.331
GWC-12	115.083	-48.8333	114.331
GWC-12A	60.5	-103.417	114.331
GWC-14	250.125	86.2083	132.018
GWC-15	**300.25**	**136.333**	**114.331**
GWC-17	262.909	98.9924	117.745
GWC-18	**346.833**	**182.917**	**114.331**
GWC-19R	**326.667**	**162.75**	**114.331**
GWC-4A	213.083	49.1667	114.331
GWC-14A	**349.833**	**185.917**	**114.331**
GWC-8	161.2	-2.71667	121.715
GWC-8A	268.083	104.167	114.331
GWC-24	93.3333	-70.5833	147.601
GWC-16A	249.273	85.3561	117.745

Kruskal-Wallis Non-Parametric Test

Parameter: Total Chromium
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/10/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			
GWA-2	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			

Background Rank Sum = 4284
Background Rank Mean = 178.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/10/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/8/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/12/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5

	6/10/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			
GWA-3	12/10/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/19/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			
GWC-10	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			
GWC-10A	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/11/2019	ND<5	178.5
Rank Sum = 2142			
Rank Mean = 178.5			
GWC-13	12/10/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5

	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-2	12/10/2013	ND<5	178.5
	6/13/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-22	12/10/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-23	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/7/2016	11	357
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/19/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2320.5
Rank Mean = 193.375

GWC-23A	12/10/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/8/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5

	6/15/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/12/2017	ND<5	178.5
	6/19/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-3	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-3A	12/10/2013	ND<5	178.5
	6/12/2014	12	359
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2322.5
Rank Mean = 193.542

GWC-4	12/10/2013	ND<5	178.5
	6/13/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/17/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/21/2018	ND<5	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-5	12/10/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5

	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-6	12/10/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	12	360
	12/9/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2323.5
Rank Mean = 193.625

GWC-7	12/10/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/9/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-9	12/10/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/16/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-11	12/11/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5

	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-12	12/11/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-12A	12/11/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-14	12/11/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/15/2016	ND<5	178.5
	6/21/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 1428
Rank Mean = 178.5

GWC-15	12/12/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/9/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5

	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/11/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-17	12/12/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/8/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

GWC-18	12/12/2013	ND<5	178.5
	6/10/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-19R	12/12/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/7/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/20/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-4A	12/12/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/12/2014	ND<5	178.5
	6/25/2015	ND<5	178.5
	12/10/2015	11	358
	6/17/2016	ND<5	178.5

	12/8/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/13/2017	19	361
	6/21/2018	ND<5	178.5
	12/18/2018	ND<5	178.5
	6/12/2019	26	362

Rank Sum = 2687.5
Rank Mean = 223.958

GWC-14A	12/13/2013	ND<5	178.5
	6/11/2014	ND<5	178.5
	12/10/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/13/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/19/2018	ND<5	178.5
	6/12/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-8	12/13/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 1785
Rank Mean = 178.5

GWC-8A	12/13/2013	ND<5	178.5
	6/12/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/16/2016	ND<5	178.5
	12/9/2016	ND<5	178.5
	6/14/2017	ND<5	178.5
	12/13/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 2142
Rank Mean = 178.5

GWC-24	6/12/2014	ND<5	178.5
	6/23/2015	ND<5	178.5
	6/14/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	6/20/2018	ND<5	178.5

	6/12/2019	ND<5	178.5

Rank Sum = 1071
Rank Mean = 178.5

GWC-16A	6/13/2014	ND<5	178.5
	12/11/2014	ND<5	178.5
	6/24/2015	ND<5	178.5
	12/10/2015	ND<5	178.5
	6/17/2016	ND<5	178.5
	12/8/2016	ND<5	178.5
	6/15/2017	ND<5	178.5
	12/14/2017	ND<5	178.5
	6/21/2018	ND<5	178.5
	12/20/2018	ND<5	178.5
	6/13/2019	ND<5	178.5

Rank Sum = 1963.5
Rank Mean = 178.5

Calculation Results:

Kruskal-Wallis H Statistic = 2.70809
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 55.3751
95% Confidence comparison value is 43.773 at 30 degrees of freedom
2.70809 < 43.773 indicating no significant group difference at 5% significance level
55.3751 > 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 178.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	178.5	0	86.0688
GWA-3	178.5	0	86.0688
GWC-10	178.5	0	86.0688
GWC-10A	178.5	0	86.0688
GWC-13	178.5	0	86.0688
GWC-2	178.5	0	86.0688
GWC-22	178.5	0	86.0688
GWC-23	193.375	14.875	86.0688
GWC-23A	178.5	0	86.0688
GWC-3	178.5	0	99.3836
GWC-3A	193.542	15.0417	86.0688
GWC-4	178.5	0	99.3836
GWC-5	178.5	0	86.0688
GWC-6	193.625	15.125	86.0688
GWC-7	178.5	0	86.0688
GWC-9	178.5	0	86.0688
GWC-11	178.5	0	86.0688
GWC-12	178.5	0	86.0688
GWC-12A	178.5	0	86.0688
GWC-14	178.5	0	99.3836
GWC-15	178.5	0	86.0688
GWC-17	178.5	0	88.6385
GWC-18	178.5	0	86.0688
GWC-19R	178.5	0	86.0688
GWC-4A	223.958	45.4583	86.0688
GWC-14A	178.5	0	86.0688

GWC-8	178.5	0	91.6272
GWC-8A	178.5	0	86.0688
GWC-24	178.5	0	111.114
GWC-16A	178.5	0	88.6385

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 178.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	178.5	0	114.331
GWA-3	178.5	0	114.331
GWC-10	178.5	0	114.331
GWC-10A	178.5	0	114.331
GWC-13	178.5	0	114.331
GWC-2	178.5	0	114.331
GWC-22	178.5	0	114.331
GWC-23	193.375	14.875	114.331
GWC-23A	178.5	0	114.331
GWC-3	178.5	0	132.018
GWC-3A	193.542	15.0417	114.331
GWC-4	178.5	0	132.018
GWC-5	178.5	0	114.331
GWC-6	193.625	15.125	114.331
GWC-7	178.5	0	114.331
GWC-9	178.5	0	114.331
GWC-11	178.5	0	114.331
GWC-12	178.5	0	114.331
GWC-12A	178.5	0	114.331
GWC-14	178.5	0	132.018
GWC-15	178.5	0	114.331
GWC-17	178.5	0	117.745
GWC-18	178.5	0	114.331
GWC-19R	178.5	0	114.331
GWC-4A	223.958	45.4583	114.331
GWC-14A	178.5	0	114.331
GWC-8	178.5	0	121.715
GWC-8A	178.5	0	114.331
GWC-24	178.5	0	147.601
GWC-16A	178.5	0	117.745

Kruskal-Wallis Non-Parametric Test

Parameter: Total Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/10/2013	ND<20	166
	6/10/2014	ND<20	166
	12/9/2014	ND<20	166
	6/24/2015	ND<20	166
	12/9/2015	ND<20	166
	6/15/2016	ND<20	166
	12/8/2016	ND<20	166
	6/14/2017	ND<20	166
	12/12/2017	ND<20	166
	6/20/2018	ND<20	166
	12/18/2018	ND<20	166
	6/11/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWA-2	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	12/10/2014	ND<20	166
	6/25/2015	ND<20	166
	12/8/2015	ND<20	166
	6/14/2016	ND<20	166
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/12/2017	ND<20	166
	6/20/2018	ND<20	166
	12/18/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

Background Rank Sum = 3984
Background Rank Mean = 166

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/10/2013	ND<20	166
	6/10/2014	ND<20	166
	12/8/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/14/2016	ND<20	166
	12/7/2016	ND<20	166
	6/12/2017	ND<20	166
	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/18/2018	ND<20	166

	6/10/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWA-3	12/10/2013	ND<20	166
	6/10/2014	ND<20	166
	12/9/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/14/2016	ND<20	166
	12/9/2016	ND<20	166
	6/15/2017	ND<20	166
	12/12/2017	ND<20	166
	6/19/2018	ND<20	166
	12/18/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-10	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/18/2018	ND<20	166
	6/11/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-10A	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/18/2018	ND<20	166
	6/11/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-13	12/10/2013	ND<20	166
	6/10/2014	ND<20	166
	12/12/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/16/2016	ND<20	166
	12/8/2016	ND<20	166
	6/15/2017	ND<20	166

	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-2	12/10/2013	ND<20	166
	6/13/2014	ND<20	166
	12/12/2014	ND<20	166
	6/25/2015	ND<20	166
	12/10/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/14/2017	ND<20	166
	6/21/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-22	12/10/2013	ND<20	166
	6/11/2014	60	343
	12/9/2014	ND<20	166
	6/23/2015	ND<20	166
	12/10/2015	ND<20	166
	6/16/2016	ND<20	166
	12/7/2016	ND<20	166
	6/15/2017	ND<20	166
	12/12/2017	ND<20	166
	6/20/2018	ND<20	166
	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 2169			
Rank Mean = 180.75			
GWC-23	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	12/9/2014	ND<20	166
	6/23/2015	ND<20	166
	12/9/2015	ND<20	166
	6/16/2016	ND<20	166
	12/7/2016	ND<20	166
	6/15/2017	ND<20	166
	12/12/2017	ND<20	166
	6/19/2018	ND<20	166
	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-23A	12/10/2013	ND<20	166
	6/11/2014	ND<20	166
	12/8/2014	ND<20	166
	6/23/2015	ND<20	166
	12/9/2015	ND<20	166

	6/15/2016	ND<20	166
	12/7/2016	ND<20	166
	6/15/2017	ND<20	166
	12/12/2017	ND<20	166
	6/19/2018	ND<20	166
	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-3	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	6/25/2015	ND<20	166
	12/10/2015	ND<20	166
	6/15/2016	ND<20	166
	6/21/2018	ND<20	166
	12/18/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1328			
Rank Mean = 166			
GWC-3A	12/10/2013	ND<20	166
	6/12/2014	ND<20	166
	12/12/2014	ND<20	166
	6/25/2015	ND<20	166
	12/10/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/13/2017	ND<20	166
	6/21/2018	ND<20	166
	12/18/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			
GWC-4	12/10/2013	ND<20	166
	6/13/2014	ND<20	166
	12/12/2014	ND<20	166
	6/25/2015	ND<20	166
	12/10/2015	ND<20	166
	6/17/2016	ND<20	166
	12/8/2016	ND<20	166
	6/21/2018	ND<20	166
Rank Sum = 1328			
Rank Mean = 166			
GWC-5	12/10/2013	ND<20	166
	6/11/2014	ND<20	166
	12/9/2014	ND<20	166
	6/25/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/13/2017	ND<20	166
	12/13/2017	ND<20	166
	6/21/2018	ND<20	166

	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-6	12/10/2013	ND<20	166
	6/11/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/9/2015	ND<20	166
	6/15/2016	ND<20	166
	12/9/2016	ND<20	166
	6/13/2017	ND<20	166
	12/14/2017	ND<20	166
	6/21/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-7	12/10/2013	ND<20	166
	6/11/2014	ND<20	166
	12/9/2014	ND<20	166
	6/25/2015	ND<20	166
	12/8/2015	ND<20	166
	6/16/2016	ND<20	166
	12/9/2016	ND<20	166
	6/13/2017	ND<20	166
	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-9	12/10/2013	67	344
	6/12/2014	120	350
	12/12/2014	ND<20	166
	6/23/2015	ND<20	166
	12/9/2015	ND<20	166
	6/15/2016	50	339
	12/9/2016	ND<20	166
	6/16/2017	ND<20	166
	12/14/2017	ND<20	166
	6/21/2018	ND<20	166
	12/19/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 2527			
Rank Mean = 210.583			

GWC-11	12/11/2013	ND<20	166
	6/10/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/8/2016	ND<20	166

	6/15/2017	ND<20	166
	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-12	12/11/2013	ND<20	166
	6/10/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/8/2016	ND<20	166
	6/15/2017	ND<20	166
	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/20/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-12A	12/11/2013	ND<20	166
	6/10/2014	ND<20	166
	12/10/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/15/2016	ND<20	166
	12/8/2016	ND<20	166
	6/15/2017	ND<20	166
	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/20/2018	ND<20	166
	6/12/2019	ND<20	166
Rank Sum = 1992			
Rank Mean = 166			

GWC-14	12/11/2013	67	345
	6/11/2014	82	347
	12/11/2014	48	337
	6/24/2015	54	341
	12/10/2015	49	338
	6/15/2016	88	348
	6/21/2018	42	333
	6/12/2019	57	342
Rank Sum = 2731			
Rank Mean = 341.375			

GWC-15	12/12/2013	ND<20	166
	6/11/2014	ND<20	166
	12/11/2014	ND<20	166
	6/24/2015	ND<20	166
	12/9/2015	ND<20	166
	6/16/2016	ND<20	166
	12/8/2016	ND<20	166
	6/14/2017	ND<20	166

	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/19/2018	ND<20	166
	6/11/2019	ND<20	166

Rank Sum = 1992
Rank Mean = 166

GWC-17	12/12/2013	52	340
	6/10/2014	ND<20	166
	12/11/2014	ND<20	166
	6/23/2015	ND<20	166
	12/8/2015	ND<20	166
	6/14/2016	ND<20	166
	6/15/2017	ND<20	166
	12/13/2017	ND<20	166
	6/20/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166

Rank Sum = 2000
Rank Mean = 181.818

GWC-18	12/12/2013	ND<20	166
	6/10/2014	ND<20	166
	12/11/2014	ND<20	166
	6/23/2015	ND<20	166
	12/10/2015	ND<20	166
	6/14/2016	ND<20	166
	12/7/2016	ND<20	166
	6/15/2017	ND<20	166
	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/19/2018	ND<20	166
	6/12/2019	ND<20	166

Rank Sum = 1992
Rank Mean = 166

GWC-19R	12/12/2013	ND<20	166
	6/11/2014	ND<20	166
	12/11/2014	ND<20	166
	6/23/2015	ND<20	166
	12/10/2015	ND<20	166
	6/16/2016	47	336
	12/7/2016	ND<20	166
	6/15/2017	ND<20	166
	12/14/2017	ND<20	166
	6/20/2018	ND<20	166
	12/19/2018	ND<20	166
	6/12/2019	ND<20	166

Rank Sum = 2162
Rank Mean = 180.167

GWC-4A	12/12/2013	ND<20	166
	6/11/2014	ND<20	166
	12/12/2014	ND<20	166
	6/25/2015	ND<20	166
	12/10/2015	ND<20	166
	6/17/2016	ND<20	166

	12/8/2016	ND<20	166
	6/14/2017	ND<20	166
	12/13/2017	ND<20	166
	6/21/2018	ND<20	166
	12/18/2018	ND<20	166
	6/12/2019	ND<20	166

Rank Sum = 1992
Rank Mean = 166

GWC-14A	12/13/2013	760	362
	6/11/2014	690	361
	12/10/2014	580	359
	6/24/2015	620	360
	12/10/2015	520	358
	6/16/2016	490	357
	12/8/2016	380	356
	6/13/2017	370	355
	12/13/2017	280	351
	6/21/2018	310	353
	12/19/2018	290	352
	6/12/2019	330	354

Rank Sum = 4278
Rank Mean = 356.5

GWC-8	12/13/2013	ND<20	166
	6/12/2014	ND<20	166
	12/11/2014	ND<20	166
	6/24/2015	ND<20	166
	12/10/2015	ND<20	166
	6/16/2016	ND<20	166
	12/9/2016	ND<20	166
	12/13/2017	ND<20	166
	6/21/2018	ND<20	166
	6/13/2019	ND<20	166

Rank Sum = 1660
Rank Mean = 166

GWC-8A	12/13/2013	40	332
	6/12/2014	ND<20	166
	12/11/2014	ND<20	166
	6/24/2015	ND<20	166
	12/10/2015	ND<20	166
	6/16/2016	ND<20	166
	12/9/2016	44	335
	6/14/2017	ND<20	166
	12/13/2017	ND<20	166
	6/21/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166

Rank Sum = 2327
Rank Mean = 193.917

GWC-24	6/12/2014	ND<20	166
	6/23/2015	ND<20	166
	6/14/2016	ND<20	166
	6/15/2017	ND<20	166
	6/20/2018	ND<20	166

	6/12/2019	ND<20	166

Rank Sum = 996
Rank Mean = 166

GWC-16A	6/13/2014	43	334
	12/11/2014	ND<20	166
	6/24/2015	ND<20	166
	12/10/2015	100	349
	6/17/2016	ND<20	166
	12/8/2016	ND<20	166
	6/15/2017	81	346
	12/14/2017	ND<20	166
	6/21/2018	ND<20	166
	12/20/2018	ND<20	166
	6/13/2019	ND<20	166

Rank Sum = 2357
Rank Mean = 214.273

Calculation Results:

Kruskal-Wallis H Statistic = 60.3783
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 256.345
95% Confidence comparison value is 43.773 at 30 degrees of freedom
60.3783 > 43.773 indicating a significant group difference at 5% significance level
256.345 > 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 166

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	166	0	86.0688
GWA-3	166	0	86.0688
GWC-10	166	0	86.0688
GWC-10A	166	0	86.0688
GWC-13	166	0	86.0688
GWC-2	166	0	86.0688
GWC-22	180.75	14.75	86.0688
GWC-23	166	0	86.0688
GWC-23A	166	0	86.0688
GWC-3	166	0	99.3836
GWC-3A	166	0	86.0688
GWC-4	166	0	99.3836
GWC-5	166	0	86.0688
GWC-6	166	0	86.0688
GWC-7	166	0	86.0688
GWC-9	210.583	44.5833	86.0688
GWC-11	166	0	86.0688
GWC-12	166	0	86.0688
GWC-12A	166	0	86.0688
GWC-14	**341.375**	**175.375**	**99.3836**
GWC-15	166	0	86.0688
GWC-17	181.818	15.8182	88.6385
GWC-18	166	0	86.0688
GWC-19R	180.167	14.1667	86.0688
GWC-4A	166	0	86.0688
GWC-14A	**356.5**	**190.5**	**86.0688**

GWC-8	166	0	91.6272
GWC-8A	193.917	27.9167	86.0688
GWC-24	166	0	111.114
GWC-16A	214.273	48.2727	88.6385

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 166

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	166	0	114.331
GWA-3	166	0	114.331
GWC-10	166	0	114.331
GWC-10A	166	0	114.331
GWC-13	166	0	114.331
GWC-2	166	0	114.331
GWC-22	180.75	14.75	114.331
GWC-23	166	0	114.331
GWC-23A	166	0	114.331
GWC-3	166	0	132.018
GWC-3A	166	0	114.331
GWC-4	166	0	132.018
GWC-5	166	0	114.331
GWC-6	166	0	114.331
GWC-7	166	0	114.331
GWC-9	210.583	44.5833	114.331
GWC-11	166	0	114.331
GWC-12	166	0	114.331
GWC-12A	166	0	114.331
GWC-14	**341.375**	**175.375**	**132.018**
GWC-15	166	0	114.331
GWC-17	181.818	15.8182	117.745
GWC-18	166	0	114.331
GWC-19R	180.167	14.1667	114.331
GWC-4A	166	0	114.331
GWC-14A	**356.5**	**190.5**	**114.331**
GWC-8	166	0	121.715
GWC-8A	193.917	27.9167	114.331
GWC-24	166	0	147.601
GWC-16A	214.273	48.2727	117.745

Kruskal-Wallis Non-Parametric Test

Parameter: Total Nickel
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/10/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/9/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/14/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/11/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			
GWA-2	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/12/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			

Background Rank Sum = 4140
Background Rank Mean = 172.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/10/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/8/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	12/7/2016	ND<10	172.5
	6/12/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/18/2018	ND<10	172.5

	6/10/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			
GWA-3	12/10/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/19/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/12/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			
GWC-10	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/11/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			
GWC-10A	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/11/2019	ND<10	172.5
Rank Sum = 2070			
Rank Mean = 172.5			
GWC-13	12/10/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/15/2017	ND<10	172.5

	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-2	12/10/2013	ND<10	172.5
	6/13/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-22	12/10/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/7/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-23	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/9/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/7/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/19/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-23A	12/10/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/8/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/9/2015	ND<10	172.5

	6/15/2016	ND<10	172.5
	12/7/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/12/2017	ND<10	172.5
	6/19/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-3	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 1380
Rank Mean = 172.5

GWC-3A	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-4	12/10/2013	ND<10	172.5
	6/13/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/17/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/21/2018	ND<10	172.5

Rank Sum = 1380
Rank Mean = 172.5

GWC-5	12/10/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/13/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/21/2018	ND<10	172.5

	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-6	12/10/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/9/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/13/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-7	12/10/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/9/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/13/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-9	12/10/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/9/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/16/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-11	12/11/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/8/2016	ND<10	172.5

	6/15/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-12	12/11/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-12A	12/11/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/10/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-14	12/11/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/15/2016	ND<10	172.5
	6/21/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 1380
Rank Mean = 172.5

GWC-15	12/12/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/9/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/14/2017	ND<10	172.5

	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/11/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-17	12/12/2013	ND<10	172.5
	6/10/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/8/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 1897.5
Rank Mean = 172.5

GWC-18	12/12/2013	31	355
	6/10/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/23/2015	47	361
	12/10/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	12/7/2016	64	362
	6/15/2017	34	356
	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/12/2019	24	349

Rank Sum = 2990.5
Rank Mean = 249.208

GWC-19R	12/12/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/7/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/20/2018	ND<10	172.5
	12/19/2018	ND<10	172.5
	6/12/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-4A	12/12/2013	ND<10	172.5
	6/11/2014	ND<10	172.5
	12/12/2014	ND<10	172.5
	6/25/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/17/2016	ND<10	172.5

	12/8/2016	ND<10	172.5
	6/14/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/18/2018	ND<10	172.5
	6/12/2019	22	348

Rank Sum = 2245.5
Rank Mean = 187.125

GWC-14A	12/13/2013	36	358
	6/11/2014	35	357
	12/10/2014	38	360
	6/24/2015	36	359
	12/10/2015	28	353
	6/16/2016	28	354
	12/8/2016	27	352
	6/13/2017	24	350
	12/13/2017	21	346
	6/21/2018	24	351
	12/19/2018	20	345
	6/12/2019	21	347

Rank Sum = 4232
Rank Mean = 352.667

GWC-8	12/13/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 1725
Rank Mean = 172.5

GWC-8A	12/13/2013	ND<10	172.5
	6/12/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/16/2016	ND<10	172.5
	12/9/2016	ND<10	172.5
	6/14/2017	ND<10	172.5
	12/13/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 2070
Rank Mean = 172.5

GWC-24	6/12/2014	ND<10	172.5
	6/23/2015	ND<10	172.5
	6/14/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	6/20/2018	ND<10	172.5

	6/12/2019	ND<10	172.5

Rank Sum = 1035
Rank Mean = 172.5

GWC-16A	6/13/2014	ND<10	172.5
	12/11/2014	ND<10	172.5
	6/24/2015	ND<10	172.5
	12/10/2015	ND<10	172.5
	6/17/2016	ND<10	172.5
	12/8/2016	ND<10	172.5
	6/15/2017	ND<10	172.5
	12/14/2017	ND<10	172.5
	6/21/2018	ND<10	172.5
	12/20/2018	ND<10	172.5
	6/13/2019	ND<10	172.5

Rank Sum = 1897.5
Rank Mean = 172.5

Calculation Results:

Kruskal-Wallis H Statistic = 39.5758
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 278.943
95% Confidence comparison value is 43.773 at 30 degrees of freedom
39.5758 < 43.773 indicating no significant group difference at 5% significance level
278.943 > 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 172.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	172.5	0	86.0688
GWA-3	172.5	0	86.0688
GWC-10	172.5	0	86.0688
GWC-10A	172.5	0	86.0688
GWC-13	172.5	0	86.0688
GWC-2	172.5	0	86.0688
GWC-22	172.5	0	86.0688
GWC-23	172.5	0	86.0688
GWC-23A	172.5	0	86.0688
GWC-3	172.5	0	99.3836
GWC-3A	172.5	0	86.0688
GWC-4	172.5	0	99.3836
GWC-5	172.5	0	86.0688
GWC-6	172.5	0	86.0688
GWC-7	172.5	0	86.0688
GWC-9	172.5	0	86.0688
GWC-11	172.5	0	86.0688
GWC-12	172.5	0	86.0688
GWC-12A	172.5	0	86.0688
GWC-14	172.5	0	99.3836
GWC-15	172.5	0	86.0688
GWC-17	172.5	0	88.6385
GWC-18	249.208	76.7083	86.0688
GWC-19R	172.5	0	86.0688
GWC-4A	187.125	14.625	86.0688
GWC-14A	**352.667**	**180.167**	**86.0688**

GWC-8	172.5	0	91.6272
GWC-8A	172.5	0	86.0688
GWC-24	172.5	0	111.114
GWC-16A	172.5	0	88.6385

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 172.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	172.5	0	114.331
GWA-3	172.5	0	114.331
GWC-10	172.5	0	114.331
GWC-10A	172.5	0	114.331
GWC-13	172.5	0	114.331
GWC-2	172.5	0	114.331
GWC-22	172.5	0	114.331
GWC-23	172.5	0	114.331
GWC-23A	172.5	0	114.331
GWC-3	172.5	0	132.018
GWC-3A	172.5	0	114.331
GWC-4	172.5	0	132.018
GWC-5	172.5	0	114.331
GWC-6	172.5	0	114.331
GWC-7	172.5	0	114.331
GWC-9	172.5	0	114.331
GWC-11	172.5	0	114.331
GWC-12	172.5	0	114.331
GWC-12A	172.5	0	114.331
GWC-14	172.5	0	132.018
GWC-15	172.5	0	114.331
GWC-17	172.5	0	117.745
GWC-18	249.208	76.7083	114.331
GWC-19R	172.5	0	114.331
GWC-4A	187.125	14.625	114.331
GWC-14A	**352.667**	**180.167**	**114.331**
GWC-8	172.5	0	121.715
GWC-8A	172.5	0	114.331
GWC-24	172.5	0	147.601
GWC-16A	172.5	0	117.745

Kruskal-Wallis Non-Parametric Test

Parameter: Total Zinc
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/10/2013	61	349
	6/10/2014	25	293
	12/9/2014	30	313
	6/24/2015	45	336
	12/9/2015	31	316
	6/15/2016	31	317
	12/8/2016	20	262
	6/14/2017	23	280
	12/12/2017	38	324
	6/20/2018	48	341
	12/18/2018	44	334
	6/11/2019	42	331
Rank Sum = 3796			
Rank Mean = 316.333			
GWA-2	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	12/10/2014	ND<10	131
	6/25/2015	ND<10	131
	12/8/2015	ND<10	131
	6/14/2016	20	263
	12/9/2016	ND<10	131
	6/16/2017	ND<10	131
	12/12/2017	ND<10	131
	6/20/2018	ND<10	131
	12/18/2018	ND<10	131
	6/12/2019	30	314
Rank Sum = 1887			
Rank Mean = 157.25			

Background Rank Sum = 5683
Background Rank Mean = 236.792

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-1A	12/10/2013	ND<10	131
	6/10/2014	ND<10	131
	12/8/2014	ND<10	131
	6/23/2015	ND<10	131
	12/8/2015	ND<10	131
	6/14/2016	ND<10	131
	12/7/2016	ND<10	131
	6/12/2017	ND<10	131
	12/13/2017	24	286
	6/20/2018	ND<10	131
	12/18/2018	ND<10	131

	6/10/2019	ND<10	131
Rank Sum = 1727			
Rank Mean = 143.917			
GWA-3	12/10/2013	ND<10	131
	6/10/2014	ND<10	131
	12/9/2014	ND<10	131
	6/23/2015	ND<10	131
	12/8/2015	43	333
	6/14/2016	ND<10	131
	12/9/2016	ND<10	131
	6/15/2017	ND<10	131
	12/12/2017	ND<10	131
	6/19/2018	41	329
	12/18/2018	ND<10	131
	6/12/2019	ND<10	131
Rank Sum = 1972			
Rank Mean = 164.333			
GWC-10	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	12/10/2014	ND<10	131
	6/23/2015	ND<10	131
	12/8/2015	26	298
	6/15/2016	ND<10	131
	12/9/2016	23	281
	6/16/2017	ND<10	131
	12/13/2017	28	309
	6/20/2018	41	330
	12/18/2018	22	279
	6/11/2019	24	287
Rank Sum = 2570			
Rank Mean = 214.167			
GWC-10A	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	12/10/2014	20	264
	6/23/2015	ND<10	131
	12/8/2015	ND<10	131
	6/15/2016	ND<10	131
	12/9/2016	ND<10	131
	6/16/2017	ND<10	131
	12/13/2017	ND<10	131
	6/20/2018	ND<10	131
	12/18/2018	38	325
	6/11/2019	ND<10	131
Rank Sum = 1899			
Rank Mean = 158.25			
GWC-13	12/10/2013	ND<10	131
	6/10/2014	ND<10	131
	12/12/2014	ND<10	131
	6/23/2015	45	337
	12/8/2015	ND<10	131
	6/16/2016	ND<10	131
	12/8/2016	ND<10	131
	6/15/2017	ND<10	131

	12/13/2017	ND<10	131
	6/20/2018	ND<10	131
	12/20/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1778
Rank Mean = 148.167

GWC-2	12/10/2013	ND<10	131
	6/13/2014	ND<10	131
	12/12/2014	25	294
	6/25/2015	ND<10	131
	12/10/2015	ND<10	131
	6/15/2016	ND<10	131
	12/9/2016	ND<10	131
	6/16/2017	ND<10	131
	12/14/2017	ND<10	131
	6/21/2018	ND<10	131
	12/20/2018	23	282
	6/13/2019	28	310

Rank Sum = 2065
Rank Mean = 172.083

GWC-22	12/10/2013	ND<10	131
	6/11/2014	170	361
	12/9/2014	ND<10	131
	6/23/2015	ND<10	131
	12/10/2015	26	299
	6/16/2016	ND<10	131
	12/7/2016	ND<10	131
	6/15/2017	ND<10	131
	12/12/2017	ND<10	131
	6/20/2018	21	274
	12/19/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 2113
Rank Mean = 176.083

GWC-23	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	12/9/2014	ND<10	131
	6/23/2015	ND<10	131
	12/9/2015	ND<10	131
	6/16/2016	ND<10	131
	12/7/2016	ND<10	131
	6/15/2017	ND<10	131
	12/12/2017	ND<10	131
	6/19/2018	ND<10	131
	12/19/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1572
Rank Mean = 131

GWC-23A	12/10/2013	ND<10	131
	6/11/2014	ND<10	131
	12/8/2014	ND<10	131
	6/23/2015	ND<10	131
	12/9/2015	ND<10	131

	6/15/2016	ND<10	131
	12/7/2016	ND<10	131
	6/15/2017	ND<10	131
	12/12/2017	ND<10	131
	6/19/2018	ND<10	131
	12/19/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1572
Rank Mean = 131

GWC-3	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	6/25/2015	ND<10	131
	12/10/2015	ND<10	131
	6/15/2016	25	295
	6/21/2018	ND<10	131
	12/18/2018	ND<10	131
	6/12/2019	ND<10	131

Rank Sum = 1212
Rank Mean = 151.5

GWC-3A	12/10/2013	ND<10	131
	6/12/2014	ND<10	131
	12/12/2014	20	265
	6/25/2015	ND<10	131
	12/10/2015	ND<10	131
	6/15/2016	ND<10	131
	12/9/2016	ND<10	131
	6/16/2017	34	318
	12/13/2017	ND<10	131
	6/21/2018	ND<10	131
	12/18/2018	ND<10	131
	6/12/2019	24	288

Rank Sum = 2050
Rank Mean = 170.833

GWC-4	12/10/2013	ND<10	131
	6/13/2014	ND<10	131
	12/12/2014	ND<10	131
	6/25/2015	ND<10	131
	12/10/2015	62	350
	6/17/2016	ND<10	131
	12/8/2016	ND<10	131
	6/21/2018	25	296

Rank Sum = 1432
Rank Mean = 179

GWC-5	12/10/2013	ND<10	131
	6/11/2014	ND<10	131
	12/9/2014	ND<10	131
	6/25/2015	ND<10	131
	12/8/2015	ND<10	131
	6/15/2016	ND<10	131
	12/9/2016	ND<10	131
	6/13/2017	20	266
	12/13/2017	ND<10	131
	6/21/2018	ND<10	131

	12/19/2018	26	300
	6/13/2019	ND<10	131

Rank Sum = 1876
Rank Mean = 156.333

GWC-6	12/10/2013	ND<10	131
	6/11/2014	ND<10	131
	12/10/2014	ND<10	131
	6/23/2015	ND<10	131
	12/9/2015	ND<10	131
	6/15/2016	ND<10	131
	12/9/2016	ND<10	131
	6/13/2017	ND<10	131
	12/14/2017	ND<10	131
	6/21/2018	ND<10	131
	12/20/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1572
Rank Mean = 131

GWC-7	12/10/2013	27	305
	6/11/2014	24	289
	12/9/2014	27	306
	6/25/2015	ND<10	131
	12/8/2015	27	307
	6/16/2016	36	321
	12/9/2016	ND<10	131
	6/13/2017	20	267
	12/13/2017	ND<10	131
	6/20/2018	30	315
	12/19/2018	110	359
	6/13/2019	23	283

Rank Sum = 3145
Rank Mean = 262.083

GWC-9	12/10/2013	62	351
	6/12/2014	47	340
	12/12/2014	86	357
	6/23/2015	67	352
	12/9/2015	38	326
	6/15/2016	54	344
	12/9/2016	140	360
	6/16/2017	73	355
	12/14/2017	46	339
	6/21/2018	45	338
	12/19/2018	38	327
	6/13/2019	60	347

Rank Sum = 4136
Rank Mean = 344.667

GWC-11	12/11/2013	ND<10	131
	6/10/2014	ND<10	131
	12/10/2014	21	275
	6/23/2015	29	311
	12/8/2015	ND<10	131
	6/15/2016	ND<10	131
	12/8/2016	ND<10	131

	6/15/2017	ND<10	131
	12/14/2017	ND<10	131
	6/20/2018	26	301
	12/20/2018	ND<10	131
	6/13/2019	34	319

Rank Sum = 2254
Rank Mean = 187.833

GWC-12	12/11/2013	ND<10	131
	6/10/2014	ND<10	131
	12/10/2014	20	268
	6/23/2015	ND<10	131
	12/8/2015	ND<10	131
	6/15/2016	ND<10	131
	12/8/2016	ND<10	131
	6/15/2017	ND<10	131
	12/14/2017	ND<10	131
	6/20/2018	ND<10	131
	12/20/2018	ND<10	131
	6/12/2019	ND<10	131

Rank Sum = 1709
Rank Mean = 142.417

GWC-12A	12/11/2013	ND<10	131
	6/10/2014	ND<10	131
	12/10/2014	ND<10	131
	6/23/2015	ND<10	131
	12/8/2015	ND<10	131
	6/15/2016	ND<10	131
	12/8/2016	20	269
	6/15/2017	ND<10	131
	12/14/2017	ND<10	131
	6/20/2018	26	302
	12/20/2018	ND<10	131
	6/12/2019	ND<10	131

Rank Sum = 1881
Rank Mean = 156.75

GWC-14	12/11/2013	24	290
	6/11/2014	21	276
	12/11/2014	36	322
	6/24/2015	23	284
	12/10/2015	68	354
	6/15/2016	20	270
	6/21/2018	67	353
	6/12/2019	ND<10	131

Rank Sum = 2280
Rank Mean = 285

GWC-15	12/12/2013	37	323
	6/11/2014	ND<10	131
	12/11/2014	270	362
	6/24/2015	50	343
	12/9/2015	39	328
	6/16/2016	55	345
	12/8/2016	ND<10	131
	6/14/2017	90	358

	12/14/2017	60	348
	6/20/2018	56	346
	12/19/2018	ND<10	131
	6/11/2019	ND<10	131

Rank Sum = 3277
Rank Mean = 273.083

GWC-17	12/12/2013	ND<10	131
	6/10/2014	ND<10	131
	12/11/2014	ND<10	131
	6/23/2015	ND<10	131
	12/8/2015	ND<10	131
	6/14/2016	ND<10	131
	6/15/2017	20	271
	12/13/2017	ND<10	131
	6/20/2018	ND<10	131
	12/20/2018	27	308
	6/13/2019	24	291

Rank Sum = 1918
Rank Mean = 174.364

GWC-18	12/12/2013	ND<10	131
	6/10/2014	ND<10	131
	12/11/2014	ND<10	131
	6/23/2015	ND<10	131
	12/10/2015	ND<10	131
	6/14/2016	ND<10	131
	12/7/2016	49	342
	6/15/2017	21	277
	12/14/2017	29	312
	6/20/2018	ND<10	131
	12/19/2018	26	303
	6/12/2019	ND<10	131

Rank Sum = 2282
Rank Mean = 190.167

GWC-19R	12/12/2013	ND<10	131
	6/11/2014	ND<10	131
	12/11/2014	ND<10	131
	6/23/2015	ND<10	131
	12/10/2015	ND<10	131
	6/16/2016	ND<10	131
	12/7/2016	ND<10	131
	6/15/2017	ND<10	131
	12/14/2017	ND<10	131
	6/20/2018	21	278
	12/19/2018	ND<10	131
	6/12/2019	ND<10	131

Rank Sum = 1719
Rank Mean = 143.25

GWC-4A	12/12/2013	ND<10	131
	6/11/2014	ND<10	131
	12/12/2014	ND<10	131
	6/25/2015	ND<10	131
	12/10/2015	ND<10	131
	6/17/2016	ND<10	131

	12/8/2016	ND<10	131
	6/14/2017	ND<10	131
	12/13/2017	25	297
	6/21/2018	ND<10	131
	12/18/2018	ND<10	131
	6/12/2019	23	285

Rank Sum = 1892
Rank Mean = 157.667

GWC-14A	12/13/2013	24	292
	6/11/2014	ND<10	131
	12/10/2014	ND<10	131
	6/24/2015	ND<10	131
	12/10/2015	20	272
	6/16/2016	ND<10	131
	12/8/2016	ND<10	131
	6/13/2017	ND<10	131
	12/13/2017	ND<10	131
	6/21/2018	20	273
	12/19/2018	ND<10	131
	6/12/2019	ND<10	131

Rank Sum = 2016
Rank Mean = 168

GWC-8	12/13/2013	ND<10	131
	6/12/2014	ND<10	131
	12/11/2014	ND<10	131
	6/24/2015	ND<10	131
	12/10/2015	ND<10	131
	6/16/2016	ND<10	131
	12/9/2016	26	304
	12/13/2017	ND<10	131
	6/21/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1483
Rank Mean = 148.3

GWC-8A	12/13/2013	ND<10	131
	6/12/2014	ND<10	131
	12/11/2014	ND<10	131
	6/24/2015	ND<10	131
	12/10/2015	ND<10	131
	6/16/2016	ND<10	131
	12/9/2016	ND<10	131
	6/14/2017	ND<10	131
	12/13/2017	ND<10	131
	6/21/2018	34	320
	12/20/2018	42	332
	6/13/2019	ND<10	131

Rank Sum = 1962
Rank Mean = 163.5

GWC-24	6/12/2014	ND<10	131
	6/23/2015	ND<10	131
	6/14/2016	ND<10	131
	6/15/2017	ND<10	131
	6/20/2018	ND<10	131

	6/12/2019	ND<10	131

Rank Sum = 786
Rank Mean = 131

GWC-16A	6/13/2014	ND<10	131
	12/11/2014	ND<10	131
	6/24/2015	ND<10	131
	12/10/2015	ND<10	131
	6/17/2016	ND<10	131
	12/8/2016	ND<10	131
	6/15/2017	79	356
	12/14/2017	ND<10	131
	6/21/2018	44	335
	12/20/2018	ND<10	131
	6/13/2019	ND<10	131

Rank Sum = 1870
Rank Mean = 170

Calculation Results:

Kruskal-Wallis H Statistic = 82.6928
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 132.265
95% Confidence comparison value is 43.773 at 30 degrees of freedom
82.6928 > 43.773 indicating a significant group difference at 5% significance level
132.265 > 43.773 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 236.792

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	143.917	-92.875	86.0688
GWA-3	164.333	-72.4583	86.0688
GWC-10	214.167	-22.625	86.0688
GWC-10A	158.25	-78.5417	86.0688
GWC-13	148.167	-88.625	86.0688
GWC-2	172.083	-64.7083	86.0688
GWC-22	176.083	-60.7083	86.0688
GWC-23	131	-105.792	86.0688
GWC-23A	131	-105.792	86.0688
GWC-3	151.5	-85.2917	99.3836
GWC-3A	170.833	-65.9583	86.0688
GWC-4	179	-57.7917	99.3836
GWC-5	156.333	-80.4583	86.0688
GWC-6	131	-105.792	86.0688
GWC-7	262.083	25.2917	86.0688
GWC-9	**344.667**	**107.875**	**86.0688**
GWC-11	187.833	-48.9583	86.0688
GWC-12	142.417	-94.375	86.0688
GWC-12A	156.75	-80.0417	86.0688
GWC-14	285	48.2083	99.3836
GWC-15	273.083	36.2917	86.0688
GWC-17	174.364	-62.428	88.6385
GWC-18	190.167	-46.625	86.0688
GWC-19R	143.25	-93.5417	86.0688
GWC-4A	157.667	-79.125	86.0688
GWC-14A	168	-68.7917	86.0688

GWC-8	148.3	-88.4917	91.6272
GWC-8A	163.5	-73.2917	86.0688
GWC-24	131	-105.792	111.114
GWC-16A	170	-66.7917	88.6385

Individual Well Comparisons at Groupwise 5% Significance Level (0.166667% Significance Level per comparison)

0.166667% Z score is 3.09024
Mean background rank is 236.792

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-1A	143.917	-92.875	114.331
GWA-3	164.333	-72.4583	114.331
GWC-10	214.167	-22.625	114.331
GWC-10A	158.25	-78.5417	114.331
GWC-13	148.167	-88.625	114.331
GWC-2	172.083	-64.7083	114.331
GWC-22	176.083	-60.7083	114.331
GWC-23	131	-105.792	114.331
GWC-23A	131	-105.792	114.331
GWC-3	151.5	-85.2917	132.018
GWC-3A	170.833	-65.9583	114.331
GWC-4	179	-57.7917	132.018
GWC-5	156.333	-80.4583	114.331
GWC-6	131	-105.792	114.331
GWC-7	262.083	25.2917	114.331
GWC-9	344.667	107.875	114.331
GWC-11	187.833	-48.9583	114.331
GWC-12	142.417	-94.375	114.331
GWC-12A	156.75	-80.0417	114.331
GWC-14	285	48.2083	132.018
GWC-15	273.083	36.2917	114.331
GWC-17	174.364	-62.428	117.745
GWC-18	190.167	-46.625	114.331
GWC-19R	143.25	-93.5417	114.331
GWC-4A	157.667	-79.125	114.331
GWC-14A	168	-68.7917	114.331
GWC-8	148.3	-88.4917	121.715
GWC-8A	163.5	-73.2917	114.331
GWC-24	131	-105.792	147.601
GWC-16A	170	-66.7917	117.745

Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	175
	6/9/2014	ND<1	175
	12/8/2014	ND<1	175
	6/23/2015	ND<1	175
	12/8/2015	ND<1	175
	6/14/2016	ND<1	175
	12/7/2016	ND<1	175
	6/13/2017	ND<1	175
	12/11/2017	ND<1	175
	6/19/2018	ND<1	175
	12/17/2018	ND<1	175
	6/10/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWA-2	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/9/2014	ND<1	175
	6/24/2015	ND<1	175
	12/7/2015	ND<1	175
	6/13/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	12/11/2017	ND<1	175
	6/19/2018	ND<1	175
	12/17/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			

Background Rank Sum = 4200
Background Rank Mean = 175

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	175
	6/9/2014	ND<1	175
	12/8/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/13/2016	ND<1	175
	12/8/2016	ND<1	175
	6/14/2017	ND<1	175
	12/11/2017	ND<1	175
	6/18/2018	ND<1	175
	12/17/2018	ND<1	175

	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-10	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	12/12/2017	ND<1	175
	6/19/2018	ND<1	175
	12/17/2018	ND<1	175
	6/10/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-10A	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	12/12/2017	ND<1	175
	6/19/2018	ND<1	175
	12/17/2018	ND<1	175
	6/10/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-13	12/9/2013	ND<1	175
	6/9/2014	ND<1	175
	12/11/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/15/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	ND<1	175
	12/12/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-2	12/9/2013	ND<1	175
	6/12/2014	ND<1	175
	12/11/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175

	12/13/2017	ND<1	175
	6/20/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-22	12/9/2013	ND<1	175
	6/10/2014	ND<1	175
	12/8/2014	ND<1	175
	6/22/2015	ND<1	175
	12/9/2015	ND<1	175
	6/15/2016	ND<1	175
	12/6/2016	ND<1	175
	6/14/2017	ND<1	175
	12/11/2017	ND<1	175
	6/19/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-23	12/9/2013	ND<1	175
	6/12/2014	ND<1	175
	12/8/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175
	6/15/2016	ND<1	175
	12/6/2016	ND<1	175
	6/14/2017	ND<1	175
	12/11/2017	ND<1	175
	6/18/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-23A	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/8/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175
	6/15/2016	ND<1	175
	12/6/2016	ND<1	175
	6/14/2017	ND<1	175
	12/11/2017	ND<1	175
	6/18/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-3	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/14/2016	ND<1	175

	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	6/21/2018	ND<1	175
	12/17/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 1750			
Rank Mean = 175			
GWC-3A	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/11/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	12/12/2017	ND<1	175
	6/20/2018	ND<1	175
	12/17/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-4	12/9/2013	ND<1	175
	6/12/2014	ND<1	175
	12/11/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/16/2016	ND<1	175
	12/7/2016	ND<1	175
	6/20/2018	ND<1	175
Rank Sum = 1400			
Rank Mean = 175			
GWC-5	12/9/2013	ND<1	175
	6/10/2014	ND<1	175
	12/8/2014	ND<1	175
	6/24/2015	ND<1	175
	12/7/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/12/2017	ND<1	175
	12/12/2017	ND<1	175
	6/21/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-6	12/9/2013	ND<1	175
	6/10/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/12/2017	ND<1	175

	12/13/2017	ND<1	175
	6/21/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-7	12/9/2013	ND<1	175
	6/10/2014	ND<1	175
	12/8/2014	ND<1	175
	6/24/2015	ND<1	175
	12/7/2015	ND<1	175
	6/15/2016	ND<1	175
	12/8/2016	ND<1	175
	6/12/2017	ND<1	175
	12/12/2017	ND<1	175
	6/19/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-9	12/9/2013	ND<1	175
	6/11/2014	ND<1	175
	12/11/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175
	6/14/2016	ND<1	175
	12/8/2016	ND<1	175
	6/15/2017	ND<1	175
	12/13/2017	ND<1	175
	6/20/2018	ND<1	175
	12/18/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWA-1A	12/10/2013	ND<1	175
	6/10/2014	ND<1	175
	12/8/2014	ND<1	175
	6/23/2015	ND<1	175
	12/8/2015	ND<1	175
	6/14/2016	ND<1	175
	12/7/2016	ND<1	175
	6/12/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/18/2018	ND<1	175
	6/10/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-11	12/10/2013	ND<1	175
	6/9/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175

	6/14/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-12	12/10/2013	ND<1	175
	6/9/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/14/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-12A	12/10/2013	ND<1	175
	6/9/2014	ND<1	175
	12/9/2014	ND<1	175
	6/22/2015	ND<1	175
	12/7/2015	ND<1	175
	6/14/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			
GWC-14	12/10/2013	ND<1	175
	6/11/2014	ND<1	175
	12/10/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/15/2016	ND<1	175
	6/13/2017	ND<1	175
	6/20/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 1575			
Rank Mean = 175			
GWC-24	12/10/2013	ND<1	175
	6/11/2014	ND<1	175
	12/10/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175

	6/13/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			

GWC-15	12/11/2013	ND<1	175
	6/10/2014	ND<1	175
	12/10/2014	4.9	375
	6/23/2015	ND<1	175
	12/9/2015	2.4	359
	6/15/2016	ND<1	175
	12/8/2016	73	396
	6/14/2017	2.1	351
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	3.7	366
	6/11/2019	70	395
Rank Sum = 3292			
Rank Mean = 274.333			

GWC-17	12/11/2013	ND<1	175
	6/9/2014	ND<1	175
	12/10/2014	ND<1	175
	6/22/2015	ND<1	175
	12/8/2015	ND<1	175
	6/13/2016	ND<1	175
	6/14/2017	ND<1	175
	12/12/2017	ND<1	175
	6/19/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175
Rank Sum = 1925			
Rank Mean = 175			

GWC-18	12/11/2013	ND<1	175
	6/9/2014	3.6	365
	12/10/2014	4.5	372
	6/22/2015	3.5	363
	12/9/2015	2.7	360
	6/13/2016	ND<1	175
	12/6/2016	2.3	357
	6/14/2017	ND<1	175
	12/13/2017	2.3	358
	6/19/2018	ND<1	175
	12/18/2018	2.1	352
	6/11/2019	ND<1	175
Rank Sum = 3402			
Rank Mean = 283.5			

GWC-19R	12/11/2013	ND<1	175
	6/10/2014	ND<1	175
	12/10/2014	2.1	353

	6/22/2015	ND<1	175
	12/9/2015	ND<1	175
	6/15/2016	ND<1	175
	12/6/2016	ND<1	175
	6/14/2017	ND<1	175
	12/13/2017	ND<1	175
	6/19/2018	ND<1	175
	12/18/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2278			
Rank Mean = 189.833			

GWC-14A	12/12/2013	6.6	384
	6/11/2014	7	388
	12/10/2014	8	390
	6/23/2015	5	377
	12/9/2015	5.3	379
	6/15/2016	4.3	371
	12/8/2016	6.8	386
	6/13/2017	3.5	364
	12/12/2017	3.8	368
	6/20/2018	2.1	354
	12/19/2018	2.2	355
	6/11/2019	ND<1	175
Rank Sum = 4291			
Rank Mean = 357.583			

GWC-14R	12/12/2013	8.7	393
	6/11/2014	11	394
	12/10/2014	8.6	392
	6/23/2015	8.2	391
	12/10/2015	6.7	385
	6/15/2016	6.1	382
	12/8/2016	5.4	381
	6/13/2017	6.8	387
	12/12/2017	4.8	374
	6/20/2018	5.2	378
	12/19/2018	4.9	376
	6/12/2019	4.7	373
Rank Sum = 4606			
Rank Mean = 383.833			

GWC-4A	12/12/2013	ND<1	175
	6/10/2014	ND<1	175
	12/11/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	ND<1	175
	6/16/2016	ND<1	175
	12/7/2016	ND<1	175
	6/13/2017	ND<1	175
	12/12/2017	ND<1	175
	6/20/2018	ND<1	175
	12/17/2018	ND<1	175
	6/11/2019	ND<1	175
Rank Sum = 2100			
Rank Mean = 175			

GWC-8	12/12/2013	ND<1	175
	6/11/2014	ND<1	175
	12/10/2014	ND<1	175
	6/23/2015	ND<1	175
	12/10/2015	ND<1	175
	6/15/2016	ND<1	175
	12/8/2016	ND<1	175
	12/12/2017	ND<1	175
	6/20/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175

Rank Sum = 1925
Rank Mean = 175

GWC-8A	12/12/2013	ND<1	175
	6/11/2014	ND<1	175
	12/10/2014	2	350
	6/24/2015	ND<1	175
	12/10/2015	ND<1	175
	6/15/2016	ND<1	175
	12/8/2016	ND<1	175
	6/13/2017	ND<1	175
	12/12/2017	ND<1	175
	6/20/2018	ND<1	175
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175

Rank Sum = 2275
Rank Mean = 189.583

GWC-8R	12/12/2013	ND<1	175
	6/11/2014	3.7	367
	12/10/2014	3.8	369
	6/23/2015	2.2	356
	12/10/2015	2.9	361
	6/15/2016	ND<1	175
	12/8/2016	ND<1	175
	6/13/2017	2.9	362
	12/12/2017	ND<1	175
	6/20/2018	5.3	380
	12/19/2018	ND<1	175
	6/12/2019	ND<1	175

Rank Sum = 3245
Rank Mean = 270.417

GWC-16A	6/12/2014	6.4	383
	12/10/2014	ND<1	175
	6/24/2015	ND<1	175
	12/9/2015	7	389
	6/16/2016	ND<1	175
	12/7/2016	ND<1	175
	6/14/2017	3.9	370
	12/13/2017	ND<1	175
	6/21/2018	ND<1	175
	12/19/2018	ND<1	175
	6/13/2019	ND<1	175

Rank Sum = 2542
Rank Mean = 231.091

Calculation Results:

Kruskal-Wallis H Statistic = 84.9867
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 269.394
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
84.9867 > 46.1942 indicating a significant group difference at 5% significance level
269.394 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 175

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	175	0	94.1414
GWC-10	175	0	94.1414
GWC-10A	175	0	94.1414
GWC-13	175	0	94.1414
GWC-2	175	0	94.1414
GWC-22	175	0	94.1414
GWC-23	175	0	94.1414
GWC-23A	175	0	94.1414
GWC-3	175	0	100.221
GWC-3A	175	0	94.1414
GWC-4	175	0	108.705
GWC-5	175	0	94.1414
GWC-6	175	0	94.1414
GWC-7	175	0	94.1414
GWC-9	175	0	94.1414
GWA-1A	175	0	94.1414
GWC-11	175	0	94.1414
GWC-12	175	0	94.1414
GWC-12A	175	0	94.1414
GWC-14	175	0	104.077
GWC-24	175	0	94.1414
GWC-15	**274.333**	**99.3333**	**94.1414**
GWC-17	175	0	96.9522
GWC-18	**283.5**	**108.5**	**94.1414**
GWC-19R	189.833	14.8333	94.1414
GWC-14A	**357.583**	**182.583**	**94.1414**
GWC-14R	**383.833**	**208.833**	**94.1414**
GWC-4A	175	0	94.1414
GWC-8	175	0	96.9522
GWC-8A	189.583	14.5833	94.1414
GWC-8R	**270.417**	**95.4167**	**94.1414**
GWC-16A	231.091	56.0909	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 175

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	175	0	125.055
GWC-10	175	0	125.055
GWC-10A	175	0	125.055
GWC-13	175	0	125.055
GWC-2	175	0	125.055

GWC-22	175	0	125.055
GWC-23	175	0	125.055
GWC-23A	175	0	125.055
GWC-3	175	0	133.131
GWC-3A	175	0	125.055
GWC-4	175	0	144.401
GWC-5	175	0	125.055
GWC-6	175	0	125.055
GWC-7	175	0	125.055
GWC-9	175	0	125.055
GWA-1A	175	0	125.055
GWC-11	175	0	125.055
GWC-12	175	0	125.055
GWC-12A	175	0	125.055
GWC-14	175	0	138.253
GWC-24	175	0	125.055
GWC-15	274.333	99.3333	125.055
GWC-17	175	0	128.789
GWC-18	283.5	108.5	125.055
GWC-19R	189.833	14.8333	125.055
GWC-14A	**357.583**	**182.583**	**125.055**
GWC-14R	**383.833**	**208.833**	**125.055**
GWC-4A	175	0	125.055
GWC-8	175	0	128.789
GWC-8A	189.583	14.5833	125.055
GWC-8R	270.417	95.4167	125.055
GWC-16A	231.091	56.0909	128.789

Kruskal-Wallis Non-Parametric Test

Parameter: Vinyl chloride
Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Kruskal Wallis Ranks

Background Locations

Loc. ID	Date	Value	Rank
GWA-1	12/9/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWA-2	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			

Background Rank Sum = 4572
Background Rank Mean = 190.5

Compliance Locations

Loc. ID	Date	Value	Rank
GWA-3	12/9/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/17/2018	ND<1	190.5

	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-10	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-10A	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/10/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-13	12/9/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-2	12/9/2013	ND<1	190.5
	6/12/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5

	12/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-22	12/9/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-23	12/9/2013	ND<1	190.5
	6/12/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-23A	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/11/2017	ND<1	190.5
	6/18/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-3	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5

	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5

Rank Sum = 1905
Rank Mean = 190.5

GWC-3A	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-4	12/9/2013	ND<1	190.5
	6/12/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/20/2018	ND<1	190.5

Rank Sum = 1524
Rank Mean = 190.5

GWC-5	12/9/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-6	12/9/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/12/2017	ND<1	190.5

	12/13/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-7	12/9/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-9	12/9/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/15/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWA-1A	12/10/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/8/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/12/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/10/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-11	12/10/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5

	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-12	12/10/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-12A	12/10/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/9/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/7/2015	ND<1	190.5
	6/14/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-14	12/10/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 1714.5			
Rank Mean = 190.5			
GWC-24	12/10/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5

	6/13/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-15	12/11/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	2.3	381
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2476.5			
Rank Mean = 206.375			
GWC-17	12/11/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/8/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5
Rank Sum = 2095.5			
Rank Mean = 190.5			
GWC-18	12/11/2013	ND<1	190.5
	6/9/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/13/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/11/2019	ND<1	190.5
Rank Sum = 2286			
Rank Mean = 190.5			
GWC-19R	12/11/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/10/2014	ND<1	190.5

	6/22/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/6/2016	ND<1	190.5
	6/14/2017	ND<1	190.5
	12/13/2017	ND<1	190.5
	6/19/2018	ND<1	190.5
	12/18/2018	ND<1	190.5
	6/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-14A	12/12/2013	6.1	392
	6/11/2014	5.9	389
	12/10/2014	5.4	387
	6/23/2015	6.3	395
	12/9/2015	6.1	393
	6/15/2016	8.4	396
	12/8/2016	5.7	388
	6/13/2017	3.5	382
	12/12/2017	6	390
	6/20/2018	6.2	394
	12/19/2018	4.9	386
	6/11/2019	4.3	383

Rank Sum = 4675
Rank Mean = 389.583

GWC-14R	12/12/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-4A	12/12/2013	ND<1	190.5
	6/10/2014	ND<1	190.5
	12/11/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	ND<1	190.5
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/17/2018	ND<1	190.5
	6/11/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-8	12/12/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2095.5
Rank Mean = 190.5

GWC-8A	12/12/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-8R	12/12/2013	ND<1	190.5
	6/11/2014	ND<1	190.5
	12/10/2014	ND<1	190.5
	6/23/2015	ND<1	190.5
	12/10/2015	ND<1	190.5
	6/15/2016	ND<1	190.5
	12/8/2016	ND<1	190.5
	6/13/2017	ND<1	190.5
	12/12/2017	ND<1	190.5
	6/20/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/12/2019	ND<1	190.5

Rank Sum = 2286
Rank Mean = 190.5

GWC-16A	6/12/2014	4.8	384
	12/10/2014	ND<1	190.5
	6/24/2015	ND<1	190.5
	12/9/2015	6	391
	6/16/2016	ND<1	190.5
	12/7/2016	ND<1	190.5
	6/14/2017	4.8	385
	12/13/2017	ND<1	190.5
	6/21/2018	ND<1	190.5
	12/19/2018	ND<1	190.5
	6/13/2019	ND<1	190.5

Rank Sum = 2684
Rank Mean = 244

Calculation Results:

Kruskal-Wallis H Statistic = 37.0029
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 317.946
95% Confidence comparison value is 46.1942 at 32 degrees of freedom
37.0029 < 46.1942 indicating no significant group difference at 5% significance level
317.946 > 46.1942 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 190.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	190.5	0	94.1414
GWC-10	190.5	0	94.1414
GWC-10A	190.5	0	94.1414
GWC-13	190.5	0	94.1414
GWC-2	190.5	0	94.1414
GWC-22	190.5	0	94.1414
GWC-23	190.5	0	94.1414
GWC-23A	190.5	0	94.1414
GWC-3	190.5	0	100.221
GWC-3A	190.5	0	94.1414
GWC-4	190.5	0	108.705
GWC-5	190.5	0	94.1414
GWC-6	190.5	0	94.1414
GWC-7	190.5	0	94.1414
GWC-9	190.5	0	94.1414
GWA-1A	190.5	0	94.1414
GWC-11	190.5	0	94.1414
GWC-12	190.5	0	94.1414
GWC-12A	190.5	0	94.1414
GWC-14	190.5	0	104.077
GWC-24	190.5	0	94.1414
GWC-15	206.375	15.875	94.1414
GWC-17	190.5	0	96.9522
GWC-18	190.5	0	94.1414
GWC-19R	190.5	0	94.1414
GWC-14A	**389.583**	**199.083**	**94.1414**
GWC-14R	190.5	0	94.1414
GWC-4A	190.5	0	94.1414
GWC-8	190.5	0	96.9522
GWC-8A	190.5	0	94.1414
GWC-8R	190.5	0	94.1414
GWC-16A	244	53.5	96.9522

Individual Well Comparisons at Groupwise 5% Significance Level (0.15625% Significance Level per comparison)

0.15625% Z score is 3.09024
Mean background rank is 190.5

Well	Mean Rank	Dif from Bkg	Critical Value
GWA-3	190.5	0	125.055
GWC-10	190.5	0	125.055
GWC-10A	190.5	0	125.055
GWC-13	190.5	0	125.055
GWC-2	190.5	0	125.055

GWC-22	190.5	0	125.055
GWC-23	190.5	0	125.055
GWC-23A	190.5	0	125.055
GWC-3	190.5	0	133.131
GWC-3A	190.5	0	125.055
GWC-4	190.5	0	144.401
GWC-5	190.5	0	125.055
GWC-6	190.5	0	125.055
GWC-7	190.5	0	125.055
GWC-9	190.5	0	125.055
GWA-1A	190.5	0	125.055
GWC-11	190.5	0	125.055
GWC-12	190.5	0	125.055
GWC-12A	190.5	0	125.055
GWC-14	190.5	0	138.253
GWC-24	190.5	0	125.055
GWC-15	206.375	15.875	125.055
GWC-17	190.5	0	128.789
GWC-18	190.5	0	125.055
GWC-19R	190.5	0	125.055
GWC-14A	**389.583**	**199.083**	**125.055**
GWC-14R	190.5	0	125.055
GWC-4A	190.5	0	125.055
GWC-8	190.5	0	128.789
GWC-8A	190.5	0	125.055
GWC-8R	190.5	0	125.055
GWC-16A	244	53.5	128.789

ATLANTIC COAST CONSULTING, INC.

STATISTICAL ANALYSIS:
Non-Parametric Tolerance Interval Test

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWB-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-1	FALSE	96%
1,1-Dichloroethane	PH1-GWC-4	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1	FALSE	96%
1,1-Dichloroethane	PH1-GWA-1A	FALSE	96%
1,1-Dichloroethane	PH1-GWA-2	FALSE	96%
1,1-Dichloroethane	PH1-GWB-2	FALSE	96%
1,1-Dichloroethane	PH1-GWC-2	TRUE	96%
1,1-Dichloroethane	PH1-GWC-3	TRUE	96%
1,1-Dichloroethane	PH1-GWC-3A	TRUE	96%
cis-1,2-Dichloroethene	GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWB-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-1	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-4	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-1	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWA-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWB-2	FALSE	96%
cis-1,2-Dichloroethene	PH1-GWC-2	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-3	TRUE	96%
cis-1,2-Dichloroethene	PH1-GWC-3A	TRUE	96%
Tetrachloroethene	GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWB-1	FALSE	96%
Tetrachloroethene	PH1-GWC-1	FALSE	96%
Tetrachloroethene	PH1-GWC-4	FALSE	96%
Tetrachloroethene	PH1-GWA-1	FALSE	96%
Tetrachloroethene	PH1-GWA-1A	FALSE	96%
Tetrachloroethene	PH1-GWA-2	FALSE	96%
Tetrachloroethene	PH1-GWB-2	FALSE	96%
Tetrachloroethene	PH1-GWC-2	TRUE	96%
Tetrachloroethene	PH1-GWC-3	TRUE	96%
Tetrachloroethene	PH1-GWC-3A	TRUE	96%
Total Barium	GWC-1	TRUE	96%
Total Barium	PH1-GWA-1A	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	PH1-GWB-1	TRUE	96%
Total Barium	PH1-GWC-1	TRUE	96%
Total Barium	PH1-GWC-2	*Passed KW*	96%
Total Barium	PH1-GWC-4	FALSE	96%
Total Barium	PH1-GWA-1	FALSE	96%
Total Barium	PH1-GWA-2	TRUE	96%
Total Barium	PH1-GWB-2	FALSE	96%
Total Barium	PH1-GWC-3	FALSE	96%
Total Barium	PH1-GWC-3A	FALSE	96%
Total Chromium	GWC-1	FALSE	96%
Total Chromium	PH1-GWA-1A	*Passed KW*	96%
Total Chromium	PH1-GWB-1	FALSE	96%
Total Chromium	PH1-GWC-1	FALSE	96%
Total Chromium	PH1-GWC-2	*Passed KW*	96%
Total Chromium	PH1-GWC-4	FALSE	96%
Total Chromium	PH1-GWA-1	FALSE	96%
Total Chromium	PH1-GWA-2	FALSE	96%
Total Chromium	PH1-GWB-2	FALSE	96%
Total Chromium	PH1-GWC-3	FALSE	96%
Total Chromium	PH1-GWC-3A	FALSE	96%
Total Cobalt	GWC-1	FALSE	96%
Total Cobalt	PH1-GWA-1A	FALSE	96%
Total Cobalt	PH1-GWB-1	FALSE	96%
Total Cobalt	PH1-GWC-1	FALSE	96%
Total Cobalt	PH1-GWC-2	FALSE	96%
Total Cobalt	PH1-GWC-4	FALSE	96%
Total Cobalt	PH1-GWA-1	TRUE	96%
Total Cobalt	PH1-GWA-2	FALSE	96%
Total Cobalt	PH1-GWB-2	FALSE	96%
Total Cobalt	PH1-GWC-3	FALSE	96%
Total Cobalt	PH1-GWC-3A	FALSE	96%
Total Zinc	GWC-1	FALSE	96%
Total Zinc	PH1-GWA-1	TRUE	96%
Total Zinc	PH1-GWA-1A	FALSE	96%
Total Zinc	PH1-GWA-2	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phase I
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	PH1-GWB-1	*Passed KW*	96%
Total Zinc	PH1-GWB-2	TRUE	96%
Total Zinc	PH1-GWC-1	FALSE	96%
Total Zinc	PH1-GWC-2	*Passed KW*	96%
Total Zinc	PH1-GWC-3	FALSE	96%
Total Zinc	PH1-GWC-3A	FALSE	96%
Total Zinc	PH1-GWC-4	FALSE	96%
Trichloroethene	GWC-1	FALSE	96%
Trichloroethene	PH1-GWA-1	FALSE	96%
Trichloroethene	PH1-GWA-1A	FALSE	96%
Trichloroethene	PH1-GWA-2	TRUE	96%
Trichloroethene	PH1-GWB-1	FALSE	96%
Trichloroethene	PH1-GWB-2	FALSE	96%
Trichloroethene	PH1-GWC-1	FALSE	96%
Trichloroethene	PH1-GWC-2	FALSE	96%
Trichloroethene	PH1-GWC-3	TRUE	96%
Trichloroethene	PH1-GWC-3A	TRUE	96%
Trichloroethene	PH1-GWC-4	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
1,1-Dichloroethane	GWA-1A	FALSE	96%
1,1-Dichloroethane	GWA-3	FALSE	96%
1,1-Dichloroethane	GWC-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-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-16A	FALSE	96%
1,1-Dichloroethane	GWC-17	FALSE	96%
1,1-Dichloroethane	GWC-18	FALSE	96%
1,1-Dichloroethane	GWC-19R	FALSE	96%
1,1-Dichloroethane	GWC-2	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-24	FALSE	96%
1,1-Dichloroethane	GWC-3	FALSE	96%
1,1-Dichloroethane	GWC-3A	FALSE	96%
1,1-Dichloroethane	GWC-4	FALSE	96%
1,1-Dichloroethane	GWC-4A	FALSE	96%
1,1-Dichloroethane	GWC-5	FALSE	96%
1,1-Dichloroethane	GWC-6	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-9	FALSE	96%
Acetone	GWA-1A	FALSE	96%
Acetone	GWA-3	FALSE	96%
Acetone	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
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Acetone	GWC-10A	FALSE	96%
Acetone	GWC-11	FALSE	96%
Acetone	GWC-12	FALSE	96%
Acetone	GWC-12A	FALSE	96%
Acetone	GWC-13	FALSE	96%
Acetone	GWC-14	FALSE	96%
Acetone	GWC-14A	FALSE	96%
Acetone	GWC-14R	FALSE	96%
Acetone	GWC-15	FALSE	96%
Acetone	GWC-16A	FALSE	96%
Acetone	GWC-17	FALSE	96%
Acetone	GWC-18	FALSE	96%
Acetone	GWC-19R	FALSE	96%
Acetone	GWC-2	FALSE	96%
Acetone	GWC-22	FALSE	96%
Acetone	GWC-23	FALSE	96%
Acetone	GWC-23A	FALSE	96%
Acetone	GWC-24	FALSE	96%
Acetone	GWC-3	FALSE	96%
Acetone	GWC-3A	FALSE	96%
Acetone	GWC-4	FALSE	96%
Acetone	GWC-4A	FALSE	96%
Acetone	GWC-5	FALSE	96%
Acetone	GWC-6	FALSE	96%
Acetone	GWC-7	FALSE	96%
Acetone	GWC-8	FALSE	96%
Acetone	GWC-8A	FALSE	96%
Acetone	GWC-8R	FALSE	96%
Acetone	GWC-9	FALSE	96%
Benzene	GWA-1A	FALSE	96%
Benzene	GWA-3	FALSE	96%
Benzene	GWC-10	FALSE	96%
Benzene	GWC-10A	FALSE	96%
Benzene	GWC-11	FALSE	96%
Benzene	GWC-12	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Benzene	GWC-12A	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	*Passed KW*	96%
Benzene	GWC-16A	FALSE	96%
Benzene	GWC-17	FALSE	96%
Benzene	GWC-18	FALSE	96%
Benzene	GWC-19R	FALSE	96%
Benzene	GWC-2	FALSE	96%
Benzene	GWC-22	FALSE	96%
Benzene	GWC-23	FALSE	96%
Benzene	GWC-23A	FALSE	96%
Benzene	GWC-24	FALSE	96%
Benzene	GWC-3	FALSE	96%
Benzene	GWC-3A	FALSE	96%
Benzene	GWC-4	FALSE	96%
Benzene	GWC-4A	FALSE	96%
Benzene	GWC-5	FALSE	96%
Benzene	GWC-6	FALSE	96%
Benzene	GWC-7	FALSE	96%
Benzene	GWC-8	FALSE	96%
Benzene	GWC-8A	FALSE	96%
Benzene	GWC-8R	FALSE	96%
Benzene	GWC-9	FALSE	96%
Chloroethane	GWA-1A	FALSE	96%
Chloroethane	GWA-3	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-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
First 2019 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-16A	FALSE	96%
Chloroethane	GWC-17	FALSE	96%
Chloroethane	GWC-18	FALSE	96%
Chloroethane	GWC-19R	FALSE	96%
Chloroethane	GWC-2	FALSE	96%
Chloroethane	GWC-22	FALSE	96%
Chloroethane	GWC-23	FALSE	96%
Chloroethane	GWC-23A	FALSE	96%
Chloroethane	GWC-24	FALSE	96%
Chloroethane	GWC-3	FALSE	96%
Chloroethane	GWC-3A	FALSE	96%
Chloroethane	GWC-4	FALSE	96%
Chloroethane	GWC-4A	FALSE	96%
Chloroethane	GWC-5	FALSE	96%
Chloroethane	GWC-6	FALSE	96%
Chloroethane	GWC-7	FALSE	96%
Chloroethane	GWC-8	FALSE	96%
Chloroethane	GWC-8A	FALSE	96%
Chloroethane	GWC-8R	FALSE	96%
Chloroethane	GWC-9	FALSE	96%
cis-1,2-Dichloroethene	GWA-1A	FALSE	96%
cis-1,2-Dichloroethene	GWA-3	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-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%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
cis-1,2-Dichloroethene	GWC-16A	FALSE	96%
cis-1,2-Dichloroethene	GWC-17	FALSE	96%
cis-1,2-Dichloroethene	GWC-18	TRUE	96%
cis-1,2-Dichloroethene	GWC-19R	TRUE	96%
cis-1,2-Dichloroethene	GWC-2	FALSE	96%
cis-1,2-Dichloroethene	GWC-22	FALSE	96%
cis-1,2-Dichloroethene	GWC-23	FALSE	96%
cis-1,2-Dichloroethene	GWC-23A	FALSE	96%
cis-1,2-Dichloroethene	GWC-24	TRUE	96%
cis-1,2-Dichloroethene	GWC-3	FALSE	96%
cis-1,2-Dichloroethene	GWC-3A	FALSE	96%
cis-1,2-Dichloroethene	GWC-4	FALSE	96%
cis-1,2-Dichloroethene	GWC-4A	FALSE	96%
cis-1,2-Dichloroethene	GWC-5	FALSE	96%
cis-1,2-Dichloroethene	GWC-6	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-9	FALSE	96%
Methylene Chloride	GWA-1A	FALSE	96%
Methylene Chloride	GWA-3	FALSE	96%
Methylene Chloride	GWC-10	FALSE	96%
Methylene Chloride	GWC-10A	FALSE	96%
Methylene Chloride	GWC-11	FALSE	96%
Methylene Chloride	GWC-12	FALSE	96%
Methylene Chloride	GWC-12A	FALSE	96%
Methylene Chloride	GWC-13	FALSE	96%
Methylene Chloride	GWC-14	FALSE	96%
Methylene Chloride	GWC-14A	FALSE	96%
Methylene Chloride	GWC-14R	FALSE	96%
Methylene Chloride	GWC-15	FALSE	96%
Methylene Chloride	GWC-16A	FALSE	96%
Methylene Chloride	GWC-17	FALSE	96%
Methylene Chloride	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
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Methylene Chloride	GWC-19R	FALSE	96%
Methylene Chloride	GWC-2	FALSE	96%
Methylene Chloride	GWC-22	FALSE	96%
Methylene Chloride	GWC-23	FALSE	96%
Methylene Chloride	GWC-23A	FALSE	96%
Methylene Chloride	GWC-24	FALSE	96%
Methylene Chloride	GWC-3	FALSE	96%
Methylene Chloride	GWC-3A	FALSE	96%
Methylene Chloride	GWC-4	FALSE	96%
Methylene Chloride	GWC-4A	FALSE	96%
Methylene Chloride	GWC-5	FALSE	96%
Methylene Chloride	GWC-6	FALSE	96%
Methylene Chloride	GWC-7	FALSE	96%
Methylene Chloride	GWC-8	FALSE	96%
Methylene Chloride	GWC-8A	FALSE	96%
Methylene Chloride	GWC-8R	FALSE	96%
Methylene Chloride	GWC-9	FALSE	96%
Tetrachloroethene	GWA-1A	FALSE	96%
Tetrachloroethene	GWA-3	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-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-16A	FALSE	96%
Tetrachloroethene	GWC-17	FALSE	96%
Tetrachloroethene	GWC-18	TRUE	96%
Tetrachloroethene	GWC-19R	FALSE	96%
Tetrachloroethene	GWC-2	FALSE	96%
Tetrachloroethene	GWC-22	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Tetrachloroethene	GWC-23	FALSE	96%
Tetrachloroethene	GWC-23A	FALSE	96%
Tetrachloroethene	GWC-24	FALSE	96%
Tetrachloroethene	GWC-3	FALSE	96%
Tetrachloroethene	GWC-3A	FALSE	96%
Tetrachloroethene	GWC-4	FALSE	96%
Tetrachloroethene	GWC-4A	FALSE	96%
Tetrachloroethene	GWC-5	FALSE	96%
Tetrachloroethene	GWC-6	FALSE	96%
Tetrachloroethene	GWC-7	FALSE	96%
Tetrachloroethene	GWC-8	FALSE	96%
Tetrachloroethene	GWC-8A	FALSE	96%
Tetrachloroethene	GWC-8R	FALSE	96%
Tetrachloroethene	GWC-9	FALSE	96%
Toluene	GWA-1A	FALSE	96%
Toluene	GWA-3	FALSE	96%
Toluene	GWC-10	FALSE	96%
Toluene	GWC-10A	FALSE	96%
Toluene	GWC-11	FALSE	96%
Toluene	GWC-12	FALSE	96%
Toluene	GWC-12A	FALSE	96%
Toluene	GWC-13	FALSE	96%
Toluene	GWC-14	FALSE	96%
Toluene	GWC-14A	FALSE	96%
Toluene	GWC-14R	FALSE	96%
Toluene	GWC-15	FALSE	96%
Toluene	GWC-16A	FALSE	96%
Toluene	GWC-17	FALSE	96%
Toluene	GWC-18	FALSE	96%
Toluene	GWC-19R	FALSE	96%
Toluene	GWC-2	FALSE	96%
Toluene	GWC-22	FALSE	96%
Toluene	GWC-23	FALSE	96%
Toluene	GWC-23A	FALSE	96%
Toluene	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
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Toluene	GWC-3	FALSE	96%
Toluene	GWC-3A	FALSE	96%
Toluene	GWC-4	FALSE	96%
Toluene	GWC-4A	FALSE	96%
Toluene	GWC-5	FALSE	96%
Toluene	GWC-6	FALSE	96%
Toluene	GWC-7	FALSE	96%
Toluene	GWC-8	FALSE	96%
Toluene	GWC-8A	FALSE	96%
Toluene	GWC-8R	FALSE	96%
Toluene	GWC-9	FALSE	96%
Total Barium	GWA-1A	*Passed KW*	96%
Total Barium	GWA-3	FALSE	96%
Total Barium	GWC-10	FALSE	96%
Total Barium	GWC-10A	FALSE	96%
Total Barium	GWC-11	*Passed KW*	96%
Total Barium	GWC-12	FALSE	96%
Total Barium	GWC-12A	FALSE	96%
Total Barium	GWC-13	FALSE	96%
Total Barium	GWC-14	FALSE	96%
Total Barium	GWC-14A	TRUE	96%
Total Barium	GWC-15	TRUE	96%
Total Barium	GWC-16A	FALSE	96%
Total Barium	GWC-17	TRUE	96%
Total Barium	GWC-18	TRUE	96%
Total Barium	GWC-19R	TRUE	96%
Total Barium	GWC-2	FALSE	96%
Total Barium	GWC-22	FALSE	96%
Total Barium	GWC-23	FALSE	96%
Total Barium	GWC-23A	FALSE	96%
Total Barium	GWC-24	FALSE	96%
Total Barium	GWC-3	FALSE	96%
Total Barium	GWC-3A	*Passed KW*	96%
Total Barium	GWC-4	FALSE	96%
Total Barium	GWC-4A	*Passed KW*	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Barium	GWC-5	FALSE	96%
Total Barium	GWC-6	FALSE	96%
Total Barium	GWC-7	TRUE	96%
Total Barium	GWC-8	FALSE	96%
Total Barium	GWC-8A	FALSE	96%
Total Barium	GWC-9	TRUE	96%
Total Chromium	GWA-1A	FALSE	96%
Total Chromium	GWA-3	FALSE	96%
Total Chromium	GWC-10	FALSE	96%
Total Chromium	GWC-10A	FALSE	96%
Total Chromium	GWC-11	FALSE	96%
Total Chromium	GWC-12	FALSE	96%
Total Chromium	GWC-12A	FALSE	96%
Total Chromium	GWC-13	FALSE	96%
Total Chromium	GWC-14	FALSE	96%
Total Chromium	GWC-14A	FALSE	96%
Total Chromium	GWC-15	FALSE	96%
Total Chromium	GWC-16A	FALSE	96%
Total Chromium	GWC-17	FALSE	96%
Total Chromium	GWC-18	FALSE	96%
Total Chromium	GWC-19R	FALSE	96%
Total Chromium	GWC-2	FALSE	96%
Total Chromium	GWC-22	FALSE	96%
Total Chromium	GWC-23	FALSE	96%
Total Chromium	GWC-23A	FALSE	96%
Total Chromium	GWC-24	FALSE	96%
Total Chromium	GWC-3	FALSE	96%
Total Chromium	GWC-3A	FALSE	96%
Total Chromium	GWC-4	FALSE	96%
Total Chromium	GWC-4A	*Passed KW*	96%
Total Chromium	GWC-5	FALSE	96%
Total Chromium	GWC-6	FALSE	96%
Total Chromium	GWC-7	FALSE	96%
Total Chromium	GWC-8	FALSE	96%
Total Chromium	GWC-8A	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Chromium	GWC-9	FALSE	96%
Total Cobalt	GWA-1A	FALSE	96%
Total Cobalt	GWA-3	FALSE	96%
Total Cobalt	GWC-10	FALSE	96%
Total Cobalt	GWC-10A	FALSE	96%
Total Cobalt	GWC-11	FALSE	96%
Total Cobalt	GWC-12	FALSE	96%
Total Cobalt	GWC-12A	FALSE	96%
Total Cobalt	GWC-13	FALSE	96%
Total Cobalt	GWC-14	TRUE	96%
Total Cobalt	GWC-14A	TRUE	96%
Total Cobalt	GWC-15	FALSE	96%
Total Cobalt	GWC-16A	FALSE	96%
Total Cobalt	GWC-17	FALSE	96%
Total Cobalt	GWC-18	FALSE	96%
Total Cobalt	GWC-19R	FALSE	96%
Total Cobalt	GWC-2	FALSE	96%
Total Cobalt	GWC-22	FALSE	96%
Total Cobalt	GWC-23	FALSE	96%
Total Cobalt	GWC-23A	FALSE	96%
Total Cobalt	GWC-24	FALSE	96%
Total Cobalt	GWC-3	FALSE	96%
Total Cobalt	GWC-3A	FALSE	96%
Total Cobalt	GWC-4	FALSE	96%
Total Cobalt	GWC-4A	FALSE	96%
Total Cobalt	GWC-5	FALSE	96%
Total Cobalt	GWC-6	FALSE	96%
Total Cobalt	GWC-7	FALSE	96%
Total Cobalt	GWC-8	FALSE	96%
Total Cobalt	GWC-8A	FALSE	96%
Total Cobalt	GWC-9	FALSE	96%
Total Nickel	GWA-1A	FALSE	96%
Total Nickel	GWA-3	FALSE	96%
Total Nickel	GWC-10	FALSE	96%
Total Nickel	GWC-10A	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Nickel	GWC-11	FALSE	96%
Total Nickel	GWC-12	FALSE	96%
Total Nickel	GWC-12A	FALSE	96%
Total Nickel	GWC-13	FALSE	96%
Total Nickel	GWC-14	FALSE	96%
Total Nickel	GWC-14A	TRUE	96%
Total Nickel	GWC-15	FALSE	96%
Total Nickel	GWC-16A	FALSE	96%
Total Nickel	GWC-17	FALSE	96%
Total Nickel	GWC-18	*Passed KW*	96%
Total Nickel	GWC-19R	FALSE	96%
Total Nickel	GWC-2	FALSE	96%
Total Nickel	GWC-22	FALSE	96%
Total Nickel	GWC-23	FALSE	96%
Total Nickel	GWC-23A	FALSE	96%
Total Nickel	GWC-24	FALSE	96%
Total Nickel	GWC-3	FALSE	96%
Total Nickel	GWC-3A	FALSE	96%
Total Nickel	GWC-4	FALSE	96%
Total Nickel	GWC-4A	*Passed KW*	96%
Total Nickel	GWC-5	FALSE	96%
Total Nickel	GWC-6	FALSE	96%
Total Nickel	GWC-7	FALSE	96%
Total Nickel	GWC-8	FALSE	96%
Total Nickel	GWC-8A	FALSE	96%
Total Nickel	GWC-9	FALSE	96%
Total Zinc	GWA-1A	FALSE	96%
Total Zinc	GWA-3	FALSE	96%
Total Zinc	GWC-10	FALSE	96%
Total Zinc	GWC-10A	FALSE	96%
Total Zinc	GWC-11	FALSE	96%
Total Zinc	GWC-12	FALSE	96%
Total Zinc	GWC-12A	FALSE	96%
Total Zinc	GWC-13	FALSE	96%
Total Zinc	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
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Total Zinc	GWC-14A	FALSE	96%
Total Zinc	GWC-15	FALSE	96%
Total Zinc	GWC-16A	FALSE	96%
Total Zinc	GWC-17	FALSE	96%
Total Zinc	GWC-18	FALSE	96%
Total Zinc	GWC-19R	FALSE	96%
Total Zinc	GWC-2	FALSE	96%
Total Zinc	GWC-22	FALSE	96%
Total Zinc	GWC-23	FALSE	96%
Total Zinc	GWC-23A	FALSE	96%
Total Zinc	GWC-24	FALSE	96%
Total Zinc	GWC-3	FALSE	96%
Total Zinc	GWC-3A	FALSE	96%
Total Zinc	GWC-4	FALSE	96%
Total Zinc	GWC-4A	FALSE	96%
Total Zinc	GWC-5	FALSE	96%
Total Zinc	GWC-6	FALSE	96%
Total Zinc	GWC-7	FALSE	96%
Total Zinc	GWC-8	FALSE	96%
Total Zinc	GWC-8A	FALSE	96%
Total Zinc	GWC-9	FALSE	96%
Trichloroethene	GWA-1A	FALSE	96%
Trichloroethene	GWA-3	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-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-16A	FALSE	96%
Trichloroethene	GWC-17	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Trichloroethene	GWC-18	FALSE	96%
Trichloroethene	GWC-19R	FALSE	96%
Trichloroethene	GWC-2	FALSE	96%
Trichloroethene	GWC-22	FALSE	96%
Trichloroethene	GWC-23	FALSE	96%
Trichloroethene	GWC-23A	FALSE	96%
Trichloroethene	GWC-24	FALSE	96%
Trichloroethene	GWC-3	FALSE	96%
Trichloroethene	GWC-3A	FALSE	96%
Trichloroethene	GWC-4	FALSE	96%
Trichloroethene	GWC-4A	FALSE	96%
Trichloroethene	GWC-5	FALSE	96%
Trichloroethene	GWC-6	FALSE	96%
Trichloroethene	GWC-7	FALSE	96%
Trichloroethene	GWC-8	FALSE	96%
Trichloroethene	GWC-8A	FALSE	96%
Trichloroethene	GWC-8R	FALSE	96%
Trichloroethene	GWC-9	FALSE	96%
Vinyl chloride	GWA-1A	FALSE	96%
Vinyl chloride	GWA-3	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-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-16A	FALSE	96%
Vinyl chloride	GWC-17	FALSE	96%
Vinyl chloride	GWC-18	FALSE	96%
Vinyl chloride	GWC-19R	FALSE	96%
Vinyl chloride	GWC-2	FALSE	96%

Notes:
1. Original data are not transformed.
2. Kruskal-Wallis (K-W) non-parametric test is performed on all samples.
3. K-W detects are screened for false positives with NPTI.

Forsyth County - Hightower Road MSWLF - Phases II-IV
First 2019 Groundwater Monitoring Event
Non-Parametric Tolerance Interval Statistical Analysis Summary

Parameter Name	Well ID	Statistically Significant	Confidence Level
Vinyl chloride	GWC-22	FALSE	96%
Vinyl chloride	GWC-23	FALSE	96%
Vinyl chloride	GWC-23A	FALSE	96%
Vinyl chloride	GWC-24	FALSE	96%
Vinyl chloride	GWC-3	FALSE	96%
Vinyl chloride	GWC-3A	FALSE	96%
Vinyl chloride	GWC-4	FALSE	96%
Vinyl chloride	GWC-4A	FALSE	96%
Vinyl chloride	GWC-5	FALSE	96%
Vinyl chloride	GWC-6	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-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.

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 75.641%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/9/2013	ND<2	FALSE
GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
PH1-GWB-1	12/10/2013	ND<2	FALSE
PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWC-1	12/10/2013	ND<2	FALSE
PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-4	12/10/2013	ND<2	FALSE
PH1-GWC-4	6/11/2014	ND<2	FALSE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWA-1	12/11/2013	ND<2	FALSE
PH1-GWA-1	6/9/2014	ND<2	FALSE
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/11/2013	ND<2	FALSE
PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-2	**12/11/2013**	**2.3**	**TRUE**
PH1-GWA-2	6/9/2014	2	FALSE
PH1-GWA-2	12/10/2014	2	FALSE
PH1-GWA-2	6/22/2015	ND<2	FALSE
PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	12/7/2016	ND<2	FALSE
PH1-GWA-2	6/15/2017	ND<2	FALSE
PH1-GWA-2	12/13/2017	ND<2	FALSE
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWB-2	12/11/2013	ND<2	FALSE
PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWC-2	**12/11/2013**	**3.2**	**TRUE**
PH1-GWC-2	**6/10/2014**	**3.4**	**TRUE**
PH1-GWC-2	**12/11/2014**	**3.5**	**TRUE**
PH1-GWC-2	**6/23/2015**	**3**	**TRUE**
PH1-GWC-2	**12/8/2015**	**3.7**	**TRUE**
PH1-GWC-2	**6/14/2016**	**3.1**	**TRUE**
PH1-GWC-2	**12/7/2016**	**3.2**	**TRUE**
PH1-GWC-2	**6/13/2017**	**3**	**TRUE**
PH1-GWC-2	**12/13/2017**	**3.4**	**TRUE**
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	**12/18/2018**	**2.8**	**TRUE**
PH1-GWC-2	**6/10/2019**	**3**	**TRUE**
PH1-GWC-3	**12/11/2013**	**2.4**	**TRUE**
PH1-GWC-3	**6/10/2014**	**2.1**	**TRUE**
PH1-GWC-3	**12/10/2014**	**2.3**	**TRUE**
PH1-GWC-3	**6/24/2015**	**2.4**	**TRUE**
PH1-GWC-3	**12/9/2015**	**2.7**	**TRUE**
PH1-GWC-3	**6/16/2016**	**3.3**	**TRUE**
PH1-GWC-3	**12/8/2016**	**3.6**	**TRUE**
PH1-GWC-3	**6/13/2017**	**2.7**	**TRUE**
PH1-GWC-3	**12/12/2017**	**3.6**	**TRUE**
PH1-GWC-3	**6/19/2018**	**3.2**	**TRUE**
PH1-GWC-3	**12/18/2018**	**2.7**	**TRUE**
PH1-GWC-3	**6/10/2019**	**3.3**	**TRUE**
PH1-GWC-3A	**12/11/2013**	**2.7**	**TRUE**
PH1-GWC-3A	**6/10/2014**	**2.7**	**TRUE**
PH1-GWC-3A	**12/10/2014**	**3**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**2.4**	**TRUE**
PH1-GWC-3A	**12/9/2015**	**2.6**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**2.7**	**TRUE**
PH1-GWC-3A	**12/8/2016**	**2.8**	**TRUE**
PH1-GWC-3A	6/13/2017	2	FALSE
PH1-GWC-3A	**12/12/2017**	**2.6**	**TRUE**
PH1-GWC-3A	**6/19/2018**	**2.6**	**TRUE**
PH1-GWC-3A	**12/18/2018**	**2.3**	**TRUE**
PH1-GWC-3A	**6/10/2019**	**2.5**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 62.1795%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/9/2013	ND<2	FALSE
GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
PH1-GWB-1	12/10/2013	ND<2	FALSE
PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWC-1	12/10/2013	ND<2	FALSE
PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-4	12/10/2013	ND<2	FALSE
PH1-GWC-4	6/11/2014	ND<2	FALSE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

PH1-GWA-1	**12/11/2013**	**8.7**	**TRUE**
PH1-GWA-1	**6/9/2014**	**4.2**	**TRUE**
PH1-GWA-1	**12/10/2014**	**9**	**TRUE**
PH1-GWA-1	**6/23/2015**	**7.5**	**TRUE**
PH1-GWA-1	**12/8/2015**	**8**	**TRUE**
PH1-GWA-1	**6/14/2016**	**8.3**	**TRUE**
PH1-GWA-1	**12/7/2016**	**5**	**TRUE**
PH1-GWA-1	**6/13/2017**	**5.2**	**TRUE**
PH1-GWA-1	**12/13/2017**	**3.5**	**TRUE**
PH1-GWA-1	**6/19/2018**	**3.1**	**TRUE**
PH1-GWA-1	**12/18/2018**	**2.4**	**TRUE**
PH1-GWA-1	**6/10/2019**	**5.2**	**TRUE**

PH1-GWA-1A	12/11/2013	ND<2	FALSE
PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE

PH1-GWA-2	**12/11/2013**	**81**	**TRUE**
PH1-GWA-2	**6/9/2014**	**81**	**TRUE**
PH1-GWA-2	**12/10/2014**	**73**	**TRUE**
PH1-GWA-2	**6/22/2015**	**53**	**TRUE**
PH1-GWA-2	**12/8/2015**	**21**	**TRUE**
PH1-GWA-2	**6/13/2016**	**32**	**TRUE**
PH1-GWA-2	**12/7/2016**	**70**	**TRUE**
PH1-GWA-2	**6/15/2017**	**49**	**TRUE**
PH1-GWA-2	**12/13/2017**	**64**	**TRUE**
PH1-GWA-2	**6/18/2018**	**46**	**TRUE**
PH1-GWA-2	**12/18/2018**	**55**	**TRUE**
PH1-GWA-2	**6/11/2019**	**26**	**TRUE**

PH1-GWB-2	12/11/2013	ND<2	FALSE
PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	**12/17/2018**	**2.6**	**TRUE**
PH1-GWB-2	6/12/2019	ND<2	FALSE

PH1-GWC-2	12/11/2013	ND<2	FALSE
PH1-GWC-2	6/10/2014	ND<2	FALSE
PH1-GWC-2	12/11/2014	2	FALSE
PH1-GWC-2	6/23/2015	2	FALSE
PH1-GWC-2	**12/8/2015**	**2.5**	**TRUE**
PH1-GWC-2	**6/14/2016**	**2.2**	**TRUE**
PH1-GWC-2	**12/7/2016**	**2.3**	**TRUE**
PH1-GWC-2	**6/13/2017**	**4.4**	**TRUE**
PH1-GWC-2	**12/13/2017**	**3.1**	**TRUE**
PH1-GWC-2	**6/19/2018**	**2.2**	**TRUE**
PH1-GWC-2	**12/18/2018**	**3.3**	**TRUE**
PH1-GWC-2	**6/10/2019**	**5.1**	**TRUE**

PH1-GWC-3	**12/11/2013**	**8**	**TRUE**
PH1-GWC-3	**6/10/2014**	**8.1**	**TRUE**
PH1-GWC-3	**12/10/2014**	**9**	**TRUE**
PH1-GWC-3	**6/24/2015**	**11**	**TRUE**
PH1-GWC-3	**12/9/2015**	**13**	**TRUE**
PH1-GWC-3	**6/16/2016**	**15**	**TRUE**
PH1-GWC-3	**12/8/2016**	**15**	**TRUE**
PH1-GWC-3	**6/13/2017**	**14**	**TRUE**
PH1-GWC-3	**12/12/2017**	**15**	**TRUE**
PH1-GWC-3	**6/19/2018**	**15**	**TRUE**
PH1-GWC-3	**12/18/2018**	**15**	**TRUE**
PH1-GWC-3	**6/10/2019**	**19**	**TRUE**

PH1-GWC-3A	**12/11/2013**	**10**	**TRUE**
PH1-GWC-3A	**6/10/2014**	**8.9**	**TRUE**
PH1-GWC-3A	**12/10/2014**	**11**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**9.3**	**TRUE**
PH1-GWC-3A	**12/9/2015**	**10**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**9.9**	**TRUE**
PH1-GWC-3A	**12/8/2016**	**11**	**TRUE**
PH1-GWC-3A	**6/13/2017**	**11**	**TRUE**
PH1-GWC-3A	**12/12/2017**	**10**	**TRUE**
PH1-GWC-3A	**6/19/2018**	**12**	**TRUE**
PH1-GWC-3A	**12/18/2018**	**9.2**	**TRUE**
PH1-GWC-3A	**6/10/2019**	**11**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.7949%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/9/2013	ND<2	FALSE
GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
PH1-GWB-1	12/10/2013	ND<2	FALSE
PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWC-1	12/10/2013	ND<2	FALSE
PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-4	12/10/2013	ND<2	FALSE
PH1-GWC-4	6/11/2014	ND<2	FALSE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE
PH1-GWA-1	12/11/2013	ND<2	FALSE
PH1-GWA-1	**6/9/2014**	**2.3**	**TRUE**
PH1-GWA-1	12/10/2014	ND<2	FALSE
PH1-GWA-1	6/23/2015	ND<2	FALSE
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	12/7/2016	ND<2	FALSE
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	**6/19/2018**	**2.1**	**TRUE**
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE
PH1-GWA-1A	12/11/2013	ND<2	FALSE
PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE
PH1-GWA-2	**12/11/2013**	**3.2**	**TRUE**
PH1-GWA-2	**6/9/2014**	**5.4**	**TRUE**
PH1-GWA-2	**12/10/2014**	**4.8**	**TRUE**
PH1-GWA-2	**6/22/2015**	**3.5**	**TRUE**
PH1-GWA-2	12/8/2015	ND<2	FALSE
PH1-GWA-2	6/13/2016	ND<2	FALSE
PH1-GWA-2	**12/7/2016**	**3.7**	**TRUE**
PH1-GWA-2	**6/15/2017**	**2.1**	**TRUE**
PH1-GWA-2	**12/13/2017**	**2.3**	**TRUE**
PH1-GWA-2	6/18/2018	ND<2	FALSE
PH1-GWA-2	12/18/2018	ND<2	FALSE
PH1-GWA-2	6/11/2019	ND<2	FALSE
PH1-GWB-2	12/11/2013	ND<2	FALSE
PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE
PH1-GWC-2	**12/11/2013**	**4.4**	**TRUE**
PH1-GWC-2	**6/10/2014**	**5.1**	**TRUE**
PH1-GWC-2	**12/11/2014**	**4.9**	**TRUE**
PH1-GWC-2	**6/23/2015**	**4.7**	**TRUE**
PH1-GWC-2	**12/8/2015**	**6.3**	**TRUE**
PH1-GWC-2	**6/14/2016**	**4**	**TRUE**
PH1-GWC-2	**12/7/2016**	**3.9**	**TRUE**
PH1-GWC-2	**6/13/2017**	**6.7**	**TRUE**
PH1-GWC-2	**12/13/2017**	**5.1**	**TRUE**
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	**12/18/2018**	**5.1**	**TRUE**
PH1-GWC-2	**6/10/2019**	**4.2**	**TRUE**
PH1-GWC-3	**12/11/2013**	**8.2**	**TRUE**
PH1-GWC-3	**6/10/2014**	**11**	**TRUE**
PH1-GWC-3	**12/10/2014**	**8.5**	**TRUE**
PH1-GWC-3	**6/24/2015**	**8.7**	**TRUE**
PH1-GWC-3	**12/9/2015**	**12**	**TRUE**
PH1-GWC-3	**6/16/2016**	**8.4**	**TRUE**
PH1-GWC-3	**12/8/2016**	**12**	**TRUE**
PH1-GWC-3	**6/13/2017**	**11**	**TRUE**
PH1-GWC-3	**12/12/2017**	**13**	**TRUE**
PH1-GWC-3	**6/19/2018**	**11**	**TRUE**
PH1-GWC-3	**12/18/2018**	**10**	**TRUE**
PH1-GWC-3	**6/10/2019**	**11**	**TRUE**
PH1-GWC-3A	**12/11/2013**	**9.7**	**TRUE**
PH1-GWC-3A	**6/10/2014**	**13**	**TRUE**
PH1-GWC-3A	**12/10/2014**	**11**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**8.5**	**TRUE**
PH1-GWC-3A	**12/9/2015**	**10**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**6.7**	**TRUE**
PH1-GWC-3A	**12/8/2016**	**8.6**	**TRUE**
PH1-GWC-3A	**6/13/2017**	**8.9**	**TRUE**
PH1-GWC-3A	**12/12/2017**	**10**	**TRUE**
PH1-GWC-3A	**6/19/2018**	**11**	**TRUE**
PH1-GWC-3A	**12/18/2018**	**8.7**	**TRUE**
PH1-GWC-3A	**6/10/2019**	**8.8**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 28.2051%
Background measurements (n) = 24
Maximum Background Concentration = 37
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	**12/10/2013**	**100**	**TRUE**
GWC-1	**6/13/2014**	**86**	**TRUE**
GWC-1	**12/12/2014**	**130**	**TRUE**
GWC-1	**6/25/2015**	**99**	**TRUE**
GWC-1	**12/10/2015**	**89**	**TRUE**
GWC-1	**6/15/2016**	**92**	**TRUE**
GWC-1	**12/9/2016**	**100**	**TRUE**
GWC-1	**6/14/2017**	**92**	**TRUE**
GWC-1	**12/14/2017**	**88**	**TRUE**
GWC-1	**6/20/2018**	**94**	**TRUE**
GWC-1	**12/18/2018**	**150**	**TRUE**
GWC-1	**6/13/2019**	**93**	**TRUE**
PH1-GWA-1A	12/11/2013	24	FALSE
PH1-GWA-1A	**6/10/2014**	**45**	**TRUE**
PH1-GWA-1A	12/8/2014	27	FALSE
PH1-GWA-1A	6/23/2015	29	FALSE
PH1-GWA-1A	12/9/2015	30	FALSE
PH1-GWA-1A	6/14/2016	37	FALSE
PH1-GWA-1A	12/7/2016	21	FALSE
PH1-GWA-1A	6/12/2017	24	FALSE
PH1-GWA-1A	12/13/2017	27	FALSE
PH1-GWA-1A	6/20/2018	25	FALSE
PH1-GWA-1A	12/19/2018	27	FALSE
PH1-GWA-1A	6/11/2019	24	FALSE
PH1-GWB-1	**12/11/2013**	**79**	**TRUE**
PH1-GWB-1	**6/10/2014**	**66**	**TRUE**
PH1-GWB-1	**12/9/2014**	**72**	**TRUE**
PH1-GWB-1	**6/23/2015**	**78**	**TRUE**
PH1-GWB-1	**12/8/2015**	**75**	**TRUE**
PH1-GWB-1	**6/14/2016**	**84**	**TRUE**
PH1-GWB-1	**12/8/2016**	**75**	**TRUE**
PH1-GWB-1	**6/16/2017**	**52**	**TRUE**
PH1-GWB-1	**12/13/2017**	**54**	**TRUE**
PH1-GWB-1	**6/19/2018**	**62**	**TRUE**
PH1-GWB-1	**12/18/2018**	**53**	**TRUE**
PH1-GWB-1	**6/12/2019**	**82**	**TRUE**
PH1-GWC-1	12/11/2013	34	FALSE
PH1-GWC-1	6/13/2014	27	FALSE

PH1-GWC-1	12/12/2014	33	FALSE
PH1-GWC-1	**6/25/2015**	**58**	**TRUE**
PH1-GWC-1	**12/9/2015**	**41**	**TRUE**
PH1-GWC-1	**6/16/2016**	**54**	**TRUE**
PH1-GWC-1	**12/9/2016**	**70**	**TRUE**
PH1-GWC-1	**6/16/2017**	**40**	**TRUE**
PH1-GWC-1	**12/12/2017**	**38**	**TRUE**
PH1-GWC-1	**6/20/2018**	**42**	**TRUE**
PH1-GWC-1	**12/20/2018**	**47**	**TRUE**
PH1-GWC-1	**6/13/2019**	**50**	**TRUE**
PH1-GWC-2	12/11/2013	ND<20	FALSE
PH1-GWC-2	6/11/2014	21	FALSE
PH1-GWC-2	12/11/2014	ND<20	FALSE
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	**6/14/2017**	**51**	**TRUE**
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	ND<20	FALSE
PH1-GWC-2	12/18/2018	26	FALSE
PH1-GWC-2	**6/10/2019**	**39**	**TRUE**
PH1-GWC-4	12/11/2013	36	FALSE
PH1-GWC-4	6/12/2014	32	FALSE
PH1-GWC-4	**12/12/2014**	**51**	**TRUE**
PH1-GWC-4	6/25/2015	34	FALSE
PH1-GWC-4	12/8/2015	36	FALSE
PH1-GWC-4	**6/14/2016**	**41**	**TRUE**
PH1-GWC-4	**12/9/2016**	**80**	**TRUE**
PH1-GWC-4	**6/16/2017**	**42**	**TRUE**
PH1-GWC-4	**12/12/2017**	**54**	**TRUE**
PH1-GWC-4	6/20/2018	34	FALSE
PH1-GWC-4	**12/20/2018**	**310**	**TRUE**
PH1-GWC-4	6/13/2019	32	FALSE
PH1-GWA-1	12/12/2013	ND<20	FALSE
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	6/24/2015	21	FALSE
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	6/15/2016	21	FALSE
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	6/14/2017	21	FALSE
PH1-GWA-1	12/14/2017	20	FALSE
PH1-GWA-1	6/20/2018	34	FALSE
PH1-GWA-1	12/19/2018	24	FALSE
PH1-GWA-1	6/11/2019	24	FALSE
PH1-GWA-2	**12/12/2013**	**67**	**TRUE**
PH1-GWA-2	**6/10/2014**	**90**	**TRUE**
PH1-GWA-2	**12/11/2014**	**88**	**TRUE**

PH1-GWA-2	**6/23/2015**	**82**	**TRUE**
PH1-GWA-2	**12/9/2015**	**74**	**TRUE**
PH1-GWA-2	**6/14/2016**	**85**	**TRUE**
PH1-GWA-2	**12/8/2016**	**110**	**TRUE**
PH1-GWA-2	**6/16/2017**	**80**	**TRUE**
PH1-GWA-2	**12/14/2017**	**80**	**TRUE**
PH1-GWA-2	**6/19/2018**	**61**	**TRUE**
PH1-GWA-2	**12/19/2018**	**81**	**TRUE**
PH1-GWA-2	**6/12/2019**	**84**	**TRUE**
PH1-GWB-2	12/12/2013	ND<20	FALSE
PH1-GWB-2	6/10/2014	ND<20	FALSE
PH1-GWB-2	12/12/2014	ND<20	FALSE
PH1-GWB-2	6/25/2015	ND<20	FALSE
PH1-GWB-2	12/9/2015	29	FALSE
PH1-GWB-2	6/14/2016	28	FALSE
PH1-GWB-2	12/9/2016	26	FALSE
PH1-GWB-2	6/16/2017	ND<20	FALSE
PH1-GWB-2	12/12/2017	ND<20	FALSE
PH1-GWB-2	6/20/2018	ND<20	FALSE
PH1-GWB-2	12/18/2018	22	FALSE
PH1-GWB-2	6/13/2019	ND<20	FALSE
PH1-GWC-3	12/12/2013	30	FALSE
PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	**12/11/2014**	**38**	**TRUE**
PH1-GWC-3	6/25/2015	25	FALSE
PH1-GWC-3	12/10/2015	25	FALSE
PH1-GWC-3	6/17/2016	24	FALSE
PH1-GWC-3	12/9/2016	28	FALSE
PH1-GWC-3	6/14/2017	26	FALSE
PH1-GWC-3	12/13/2017	27	FALSE
PH1-GWC-3	6/20/2018	23	FALSE
PH1-GWC-3	12/19/2018	27	FALSE
PH1-GWC-3	6/11/2019	30	FALSE
PH1-GWC-3A	12/12/2013	23	FALSE
PH1-GWC-3A	**6/11/2014**	**40**	**TRUE**
PH1-GWC-3A	12/11/2014	24	FALSE
PH1-GWC-3A	6/25/2015	28	FALSE
PH1-GWC-3A	12/10/2015	26	FALSE
PH1-GWC-3A	6/17/2016	29	FALSE
PH1-GWC-3A	12/9/2016	29	FALSE
PH1-GWC-3A	6/14/2017	29	FALSE
PH1-GWC-3A	12/13/2017	27	FALSE
PH1-GWC-3A	6/28/2018	26	FALSE
PH1-GWC-3A	12/19/2018	24	FALSE
PH1-GWC-3A	6/11/2019	30	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.5128%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/10/2013	ND<10	FALSE
GWC-1	6/13/2014	ND<10	FALSE
GWC-1	12/12/2014	ND<10	FALSE
GWC-1	6/25/2015	ND<10	FALSE
GWC-1	12/10/2015	ND<10	FALSE
GWC-1	6/15/2016	ND<10	FALSE
GWC-1	12/9/2016	ND<10	FALSE
GWC-1	6/14/2017	ND<10	FALSE
GWC-1	12/14/2017	ND<10	FALSE
GWC-1	6/20/2018	ND<10	FALSE
GWC-1	12/18/2018	ND<10	FALSE
GWC-1	6/13/2019	ND<10	FALSE
PH1-GWA-1A	12/11/2013	ND<10	FALSE
PH1-GWA-1A	6/10/2014	ND<10	FALSE
PH1-GWA-1A	12/8/2014	ND<10	FALSE
PH1-GWA-1A	6/23/2015	ND<10	FALSE
PH1-GWA-1A	12/9/2015	10	FALSE
PH1-GWA-1A	**6/14/2016**	**28**	**TRUE**
PH1-GWA-1A	12/7/2016	ND<10	FALSE
PH1-GWA-1A	6/12/2017	ND<10	FALSE
PH1-GWA-1A	12/13/2017	ND<10	FALSE
PH1-GWA-1A	6/20/2018	ND<10	FALSE
PH1-GWA-1A	12/19/2018	ND<10	FALSE
PH1-GWA-1A	**6/11/2019**	**11**	**TRUE**
PH1-GWB-1	12/11/2013	ND<10	FALSE
PH1-GWB-1	6/10/2014	ND<10	FALSE
PH1-GWB-1	12/9/2014	ND<10	FALSE
PH1-GWB-1	6/23/2015	ND<10	FALSE
PH1-GWB-1	12/8/2015	ND<10	FALSE
PH1-GWB-1	6/14/2016	ND<10	FALSE
PH1-GWB-1	12/8/2016	ND<10	FALSE
PH1-GWB-1	6/16/2017	ND<10	FALSE
PH1-GWB-1	12/13/2017	ND<10	FALSE
PH1-GWB-1	6/19/2018	ND<10	FALSE
PH1-GWB-1	12/18/2018	ND<10	FALSE
PH1-GWB-1	6/12/2019	ND<10	FALSE
PH1-GWC-1	12/11/2013	ND<10	FALSE
PH1-GWC-1	6/13/2014	ND<10	FALSE

PH1-GWC-1	12/12/2014	ND<10	FALSE
PH1-GWC-1	6/25/2015	ND<10	FALSE
PH1-GWC-1	12/9/2015	ND<10	FALSE
PH1-GWC-1	6/16/2016	ND<10	FALSE
PH1-GWC-1	12/9/2016	ND<10	FALSE
PH1-GWC-1	6/16/2017	ND<10	FALSE
PH1-GWC-1	12/12/2017	ND<10	FALSE
PH1-GWC-1	6/20/2018	ND<10	FALSE
PH1-GWC-1	12/20/2018	ND<10	FALSE
PH1-GWC-1	6/13/2019	ND<10	FALSE
PH1-GWC-2	12/11/2013	ND<10	FALSE
PH1-GWC-2	6/11/2014	ND<10	FALSE
PH1-GWC-2	12/11/2014	ND<10	FALSE
PH1-GWC-2	6/23/2015	ND<10	FALSE
PH1-GWC-2	12/8/2015	ND<10	FALSE
PH1-GWC-2	6/14/2016	ND<10	FALSE
PH1-GWC-2	12/7/2016	ND<10	FALSE
PH1-GWC-2	6/14/2017	ND<10	FALSE
PH1-GWC-2	12/13/2017	ND<10	FALSE
PH1-GWC-2	**6/19/2018**	**12**	**TRUE**
PH1-GWC-2	12/18/2018	ND<10	FALSE
PH1-GWC-2	**6/10/2019**	**69**	**TRUE**
PH1-GWC-4	12/11/2013	ND<10	FALSE
PH1-GWC-4	6/12/2014	ND<10	FALSE
PH1-GWC-4	12/12/2014	ND<10	FALSE
PH1-GWC-4	6/25/2015	ND<10	FALSE
PH1-GWC-4	12/8/2015	ND<10	FALSE
PH1-GWC-4	6/14/2016	ND<10	FALSE
PH1-GWC-4	12/9/2016	ND<10	FALSE
PH1-GWC-4	6/16/2017	ND<10	FALSE
PH1-GWC-4	12/12/2017	ND<10	FALSE
PH1-GWC-4	6/20/2018	ND<10	FALSE
PH1-GWC-4	**12/20/2018**	**49**	**TRUE**
PH1-GWC-4	6/13/2019	ND<10	FALSE
PH1-GWA-1	12/12/2013	ND<10	FALSE
PH1-GWA-1	6/10/2014	ND<10	FALSE
PH1-GWA-1	12/11/2014	ND<10	FALSE
PH1-GWA-1	6/24/2015	ND<10	FALSE
PH1-GWA-1	12/9/2015	ND<10	FALSE
PH1-GWA-1	6/15/2016	ND<10	FALSE
PH1-GWA-1	12/8/2016	ND<10	FALSE
PH1-GWA-1	6/14/2017	ND<10	FALSE
PH1-GWA-1	12/14/2017	ND<10	FALSE
PH1-GWA-1	6/20/2018	ND<10	FALSE
PH1-GWA-1	12/19/2018	ND<10	FALSE
PH1-GWA-1	6/11/2019	ND<10	FALSE
PH1-GWA-2	12/12/2013	ND<10	FALSE
PH1-GWA-2	6/10/2014	ND<10	FALSE
PH1-GWA-2	**12/11/2014**	**74**	**TRUE**

PH1-GWA-2	6/23/2015	ND<10	FALSE
PH1-GWA-2	12/9/2015	ND<10	FALSE
PH1-GWA-2	6/14/2016	ND<10	FALSE
PH1-GWA-2	12/8/2016	ND<10	FALSE
PH1-GWA-2	6/16/2017	ND<10	FALSE
PH1-GWA-2	12/14/2017	ND<10	FALSE
PH1-GWA-2	6/19/2018	ND<10	FALSE
PH1-GWA-2	12/19/2018	ND<10	FALSE
PH1-GWA-2	6/12/2019	ND<10	FALSE
PH1-GWB-2	12/12/2013	ND<10	FALSE
PH1-GWB-2	6/10/2014	ND<10	FALSE
PH1-GWB-2	12/12/2014	ND<10	FALSE
PH1-GWB-2	6/25/2015	ND<10	FALSE
PH1-GWB-2	12/9/2015	ND<10	FALSE
PH1-GWB-2	6/14/2016	ND<10	FALSE
PH1-GWB-2	12/9/2016	ND<10	FALSE
PH1-GWB-2	6/16/2017	ND<10	FALSE
PH1-GWB-2	12/12/2017	ND<10	FALSE
PH1-GWB-2	6/20/2018	ND<10	FALSE
PH1-GWB-2	12/18/2018	ND<10	FALSE
PH1-GWB-2	6/13/2019	ND<10	FALSE
PH1-GWC-3	12/12/2013	ND<10	FALSE
PH1-GWC-3	6/11/2014	ND<10	FALSE
PH1-GWC-3	12/11/2014	ND<10	FALSE
PH1-GWC-3	6/25/2015	ND<10	FALSE
PH1-GWC-3	12/10/2015	ND<10	FALSE
PH1-GWC-3	6/17/2016	ND<10	FALSE
PH1-GWC-3	12/9/2016	ND<10	FALSE
PH1-GWC-3	6/14/2017	ND<10	FALSE
PH1-GWC-3	12/13/2017	ND<10	FALSE
PH1-GWC-3	6/20/2018	ND<10	FALSE
PH1-GWC-3	12/19/2018	ND<10	FALSE
PH1-GWC-3	6/11/2019	ND<10	FALSE
PH1-GWC-3A	12/12/2013	ND<10	FALSE
PH1-GWC-3A	6/11/2014	ND<10	FALSE
PH1-GWC-3A	12/11/2014	ND<10	FALSE
PH1-GWC-3A	6/25/2015	ND<10	FALSE
PH1-GWC-3A	12/10/2015	ND<10	FALSE
PH1-GWC-3A	6/17/2016	ND<10	FALSE
PH1-GWC-3A	12/9/2016	ND<10	FALSE
PH1-GWC-3A	6/14/2017	ND<10	FALSE
PH1-GWC-3A	12/13/2017	ND<10	FALSE
PH1-GWC-3A	6/28/2018	ND<10	FALSE
PH1-GWC-3A	12/19/2018	ND<10	FALSE
PH1-GWC-3A	6/11/2019	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.3077%
Background measurements (n) = 24
Maximum Background Concentration = 40
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/10/2013	ND<40	FALSE
GWC-1	6/13/2014	ND<40	FALSE
GWC-1	12/12/2014	ND<40	FALSE
GWC-1	6/25/2015	ND<40	FALSE
GWC-1	12/10/2015	ND<40	FALSE
GWC-1	6/15/2016	ND<40	FALSE
GWC-1	12/9/2016	ND<40	FALSE
GWC-1	6/14/2017	ND<40	FALSE
GWC-1	12/14/2017	ND<40	FALSE
GWC-1	6/20/2018	ND<40	FALSE
GWC-1	12/18/2018	ND<40	FALSE
GWC-1	6/13/2019	ND<40	FALSE
PH1-GWA-1A	12/11/2013	ND<40	FALSE
PH1-GWA-1A	6/10/2014	ND<40	FALSE
PH1-GWA-1A	12/8/2014	ND<40	FALSE
PH1-GWA-1A	6/23/2015	ND<40	FALSE
PH1-GWA-1A	12/9/2015	ND<40	FALSE
PH1-GWA-1A	6/14/2016	ND<40	FALSE
PH1-GWA-1A	12/7/2016	ND<40	FALSE
PH1-GWA-1A	6/12/2017	ND<40	FALSE
PH1-GWA-1A	12/13/2017	ND<40	FALSE
PH1-GWA-1A	6/20/2018	ND<40	FALSE
PH1-GWA-1A	12/19/2018	ND<40	FALSE
PH1-GWA-1A	6/11/2019	ND<40	FALSE
PH1-GWB-1	12/11/2013	ND<40	FALSE
PH1-GWB-1	6/10/2014	ND<40	FALSE
PH1-GWB-1	12/9/2014	ND<40	FALSE
PH1-GWB-1	6/23/2015	ND<40	FALSE
PH1-GWB-1	12/8/2015	ND<40	FALSE
PH1-GWB-1	6/14/2016	ND<40	FALSE
PH1-GWB-1	12/8/2016	ND<40	FALSE
PH1-GWB-1	6/16/2017	ND<40	FALSE
PH1-GWB-1	12/13/2017	ND<40	FALSE
PH1-GWB-1	6/19/2018	ND<40	FALSE
PH1-GWB-1	12/18/2018	ND<40	FALSE
PH1-GWB-1	6/12/2019	ND<40	FALSE
PH1-GWC-1	12/11/2013	ND<40	FALSE
PH1-GWC-1	6/13/2014	ND<40	FALSE

PH1-GWC-1	12/12/2014	ND<40	FALSE
PH1-GWC-1	6/25/2015	ND<40	FALSE
PH1-GWC-1	12/9/2015	ND<40	FALSE
PH1-GWC-1	6/16/2016	ND<40	FALSE
PH1-GWC-1	12/9/2016	ND<40	FALSE
PH1-GWC-1	6/16/2017	ND<40	FALSE
PH1-GWC-1	12/12/2017	ND<40	FALSE
PH1-GWC-1	6/20/2018	ND<40	FALSE
PH1-GWC-1	12/20/2018	ND<40	FALSE
PH1-GWC-1	6/13/2019	ND<40	FALSE
PH1-GWC-2	12/11/2013	ND<40	FALSE
PH1-GWC-2	6/11/2014	ND<40	FALSE
PH1-GWC-2	12/11/2014	ND<40	FALSE
PH1-GWC-2	6/23/2015	ND<40	FALSE
PH1-GWC-2	12/8/2015	ND<40	FALSE
PH1-GWC-2	6/14/2016	ND<40	FALSE
PH1-GWC-2	12/7/2016	ND<40	FALSE
PH1-GWC-2	6/14/2017	ND<40	FALSE
PH1-GWC-2	12/13/2017	ND<40	FALSE
PH1-GWC-2	6/19/2018	ND<40	FALSE
PH1-GWC-2	12/18/2018	ND<40	FALSE
PH1-GWC-2	6/10/2019	ND<40	FALSE
PH1-GWC-4	12/11/2013	ND<40	FALSE
PH1-GWC-4	6/12/2014	ND<40	FALSE
PH1-GWC-4	12/12/2014	ND<40	FALSE
PH1-GWC-4	6/25/2015	ND<40	FALSE
PH1-GWC-4	12/8/2015	ND<40	FALSE
PH1-GWC-4	6/14/2016	ND<40	FALSE
PH1-GWC-4	12/9/2016	ND<40	FALSE
PH1-GWC-4	6/16/2017	ND<40	FALSE
PH1-GWC-4	12/12/2017	ND<40	FALSE
PH1-GWC-4	6/20/2018	ND<40	FALSE
PH1-GWC-4	12/20/2018	ND<40	FALSE
PH1-GWC-4	6/13/2019	ND<40	FALSE
PH1-GWA-1	**12/12/2013**	**84**	**TRUE**
PH1-GWA-1	**6/10/2014**	**92**	**TRUE**
PH1-GWA-1	**12/11/2014**	**96**	**TRUE**
PH1-GWA-1	**6/24/2015**	**120**	**TRUE**
PH1-GWA-1	**12/9/2015**	**95**	**TRUE**
PH1-GWA-1	**6/15/2016**	**110**	**TRUE**
PH1-GWA-1	**12/8/2016**	**94**	**TRUE**
PH1-GWA-1	**6/14/2017**	**100**	**TRUE**
PH1-GWA-1	**12/14/2017**	**76**	**TRUE**
PH1-GWA-1	**6/20/2018**	**75**	**TRUE**
PH1-GWA-1	**12/19/2018**	**82**	**TRUE**
PH1-GWA-1	**6/11/2019**	**91**	**TRUE**
PH1-GWA-2	12/12/2013	ND<40	FALSE
PH1-GWA-2	6/10/2014	ND<40	FALSE
PH1-GWA-2	12/11/2014	ND<40	FALSE

PH1-GWA-2	6/23/2015	ND<40	FALSE
PH1-GWA-2	12/9/2015	ND<40	FALSE
PH1-GWA-2	6/14/2016	ND<40	FALSE
PH1-GWA-2	12/8/2016	ND<40	FALSE
PH1-GWA-2	6/16/2017	ND<40	FALSE
PH1-GWA-2	12/14/2017	ND<40	FALSE
PH1-GWA-2	6/19/2018	ND<40	FALSE
PH1-GWA-2	12/19/2018	ND<40	FALSE
PH1-GWA-2	6/12/2019	ND<40	FALSE
PH1-GWB-2	12/12/2013	ND<40	FALSE
PH1-GWB-2	6/10/2014	ND<40	FALSE
PH1-GWB-2	12/12/2014	ND<40	FALSE
PH1-GWB-2	6/25/2015	ND<40	FALSE
PH1-GWB-2	12/9/2015	ND<40	FALSE
PH1-GWB-2	6/14/2016	ND<40	FALSE
PH1-GWB-2	12/9/2016	ND<40	FALSE
PH1-GWB-2	6/16/2017	ND<40	FALSE
PH1-GWB-2	12/12/2017	ND<40	FALSE
PH1-GWB-2	6/20/2018	ND<40	FALSE
PH1-GWB-2	12/18/2018	ND<40	FALSE
PH1-GWB-2	6/13/2019	ND<40	FALSE
PH1-GWC-3	12/12/2013	ND<40	FALSE
PH1-GWC-3	6/11/2014	ND<40	FALSE
PH1-GWC-3	12/11/2014	ND<40	FALSE
PH1-GWC-3	6/25/2015	ND<40	FALSE
PH1-GWC-3	12/10/2015	ND<40	FALSE
PH1-GWC-3	6/17/2016	ND<40	FALSE
PH1-GWC-3	12/9/2016	ND<40	FALSE
PH1-GWC-3	6/14/2017	ND<40	FALSE
PH1-GWC-3	12/13/2017	ND<40	FALSE
PH1-GWC-3	6/20/2018	ND<40	FALSE
PH1-GWC-3	12/19/2018	ND<40	FALSE
PH1-GWC-3	6/11/2019	ND<40	FALSE
PH1-GWC-3A	12/12/2013	ND<40	FALSE
PH1-GWC-3A	6/11/2014	ND<40	FALSE
PH1-GWC-3A	12/11/2014	ND<40	FALSE
PH1-GWC-3A	6/25/2015	ND<40	FALSE
PH1-GWC-3A	12/10/2015	ND<40	FALSE
PH1-GWC-3A	6/17/2016	ND<40	FALSE
PH1-GWC-3A	12/9/2016	ND<40	FALSE
PH1-GWC-3A	6/14/2017	ND<40	FALSE
PH1-GWC-3A	12/13/2017	ND<40	FALSE
PH1-GWC-3A	6/28/2018	ND<40	FALSE
PH1-GWC-3A	12/19/2018	ND<40	FALSE
PH1-GWC-3A	6/11/2019	ND<40	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 76.9231%
Background measurements (n) = 24
Maximum Background Concentration = 20
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/10/2013	ND<20	FALSE
GWC-1	6/13/2014	ND<20	FALSE
GWC-1	12/12/2014	ND<20	FALSE
GWC-1	6/25/2015	ND<20	FALSE
GWC-1	12/10/2015	ND<20	FALSE
GWC-1	6/15/2016	ND<20	FALSE
GWC-1	12/9/2016	ND<20	FALSE
GWC-1	6/14/2017	ND<20	FALSE
GWC-1	12/14/2017	ND<20	FALSE
GWC-1	6/20/2018	20	FALSE
GWC-1	12/18/2018	ND<20	FALSE
GWC-1	6/13/2019	ND<20	FALSE
PH1-GWA-1A	12/11/2013	ND<20	FALSE
PH1-GWA-1A	6/10/2014	ND<20	FALSE
PH1-GWA-1A	12/8/2014	ND<20	FALSE
PH1-GWA-1A	6/23/2015	ND<20	FALSE
PH1-GWA-1A	12/9/2015	ND<20	FALSE
PH1-GWA-1A	6/14/2016	ND<20	FALSE
PH1-GWA-1A	12/7/2016	ND<20	FALSE
PH1-GWA-1A	6/12/2017	ND<20	FALSE
PH1-GWA-1A	12/13/2017	ND<20	FALSE
PH1-GWA-1A	6/20/2018	ND<20	FALSE
PH1-GWA-1A	12/19/2018	ND<20	FALSE
PH1-GWA-1A	6/11/2019	ND<20	FALSE
PH1-GWB-1	12/11/2013	ND<20	FALSE
PH1-GWB-1	6/10/2014	ND<20	FALSE
PH1-GWB-1	**12/9/2014**	**21**	**TRUE**
PH1-GWB-1	6/23/2015	ND<20	FALSE
PH1-GWB-1	**12/8/2015**	**29**	**TRUE**
PH1-GWB-1	6/14/2016	ND<20	FALSE
PH1-GWB-1	12/8/2016	ND<20	FALSE
PH1-GWB-1	6/16/2017	ND<20	FALSE
PH1-GWB-1	12/13/2017	ND<20	FALSE
PH1-GWB-1	**6/19/2018**	**39**	**TRUE**
PH1-GWB-1	12/18/2018	ND<20	FALSE
PH1-GWB-1	**6/12/2019**	**22**	**TRUE**
PH1-GWC-1	12/11/2013	ND<20	FALSE
PH1-GWC-1	6/13/2014	ND<20	FALSE

PH1-GWC-1	12/12/2014	ND<20	FALSE
PH1-GWC-1	6/25/2015	ND<20	FALSE
PH1-GWC-1	12/9/2015	ND<20	FALSE
PH1-GWC-1	6/16/2016	ND<20	FALSE
PH1-GWC-1	12/9/2016	ND<20	FALSE
PH1-GWC-1	6/16/2017	ND<20	FALSE
PH1-GWC-1	12/12/2017	ND<20	FALSE
PH1-GWC-1	6/20/2018	ND<20	FALSE
PH1-GWC-1	12/20/2018	ND<20	FALSE
PH1-GWC-1	6/13/2019	ND<20	FALSE
PH1-GWC-2	12/11/2013	ND<20	FALSE
PH1-GWC-2	6/11/2014	ND<20	FALSE
PH1-GWC-2	**12/11/2014**	**22**	**TRUE**
PH1-GWC-2	6/23/2015	ND<20	FALSE
PH1-GWC-2	12/8/2015	ND<20	FALSE
PH1-GWC-2	6/14/2016	ND<20	FALSE
PH1-GWC-2	12/7/2016	ND<20	FALSE
PH1-GWC-2	6/14/2017	ND<20	FALSE
PH1-GWC-2	12/13/2017	ND<20	FALSE
PH1-GWC-2	6/19/2018	20	FALSE
PH1-GWC-2	12/18/2018	ND<20	FALSE
PH1-GWC-2	**6/10/2019**	**26**	**TRUE**
PH1-GWC-4	12/11/2013	ND<20	FALSE
PH1-GWC-4	6/12/2014	ND<20	FALSE
PH1-GWC-4	12/12/2014	20	FALSE
PH1-GWC-4	6/25/2015	ND<20	FALSE
PH1-GWC-4	12/8/2015	ND<20	FALSE
PH1-GWC-4	6/14/2016	ND<20	FALSE
PH1-GWC-4	**12/9/2016**	**21**	**TRUE**
PH1-GWC-4	6/16/2017	20	FALSE
PH1-GWC-4	**12/12/2017**	**28**	**TRUE**
PH1-GWC-4	6/20/2018	ND<20	FALSE
PH1-GWC-4	**12/20/2018**	**120**	**TRUE**
PH1-GWC-4	6/13/2019	20	FALSE
PH1-GWA-1	12/12/2013	ND<20	FALSE
PH1-GWA-1	6/10/2014	ND<20	FALSE
PH1-GWA-1	12/11/2014	ND<20	FALSE
PH1-GWA-1	**6/24/2015**	**34**	**TRUE**
PH1-GWA-1	12/9/2015	ND<20	FALSE
PH1-GWA-1	**6/15/2016**	**21**	**TRUE**
PH1-GWA-1	12/8/2016	ND<20	FALSE
PH1-GWA-1	**6/14/2017**	**43**	**TRUE**
PH1-GWA-1	**12/14/2017**	**51**	**TRUE**
PH1-GWA-1	**6/20/2018**	**55**	**TRUE**
PH1-GWA-1	**12/19/2018**	**40**	**TRUE**
PH1-GWA-1	**6/11/2019**	**34**	**TRUE**
PH1-GWA-2	12/12/2013	ND<20	FALSE
PH1-GWA-2	6/10/2014	ND<20	FALSE
PH1-GWA-2	12/11/2014	ND<20	FALSE

PH1-GWA-2	6/23/2015	ND<20	FALSE
PH1-GWA-2	12/9/2015	ND<20	FALSE
PH1-GWA-2	**6/14/2016**	**56**	**TRUE**
PH1-GWA-2	12/8/2016	ND<20	FALSE
PH1-GWA-2	6/16/2017	ND<20	FALSE
PH1-GWA-2	12/14/2017	ND<20	FALSE
PH1-GWA-2	6/19/2018	ND<20	FALSE
PH1-GWA-2	**12/19/2018**	**29**	**TRUE**
PH1-GWA-2	6/12/2019	ND<20	FALSE
PH1-GWB-2	**12/12/2013**	**28**	**TRUE**
PH1-GWB-2	**6/10/2014**	**29**	**TRUE**
PH1-GWB-2	**12/12/2014**	**31**	**TRUE**
PH1-GWB-2	**6/25/2015**	**23**	**TRUE**
PH1-GWB-2	**12/9/2015**	**49**	**TRUE**
PH1-GWB-2	**6/14/2016**	**59**	**TRUE**
PH1-GWB-2	**12/9/2016**	**31**	**TRUE**
PH1-GWB-2	**6/16/2017**	**36**	**TRUE**
PH1-GWB-2	**12/12/2017**	**25**	**TRUE**
PH1-GWB-2	**6/20/2018**	**31**	**TRUE**
PH1-GWB-2	**12/18/2018**	**28**	**TRUE**
PH1-GWB-2	**6/13/2019**	**33**	**TRUE**
PH1-GWC-3	12/12/2013	ND<20	FALSE
PH1-GWC-3	6/11/2014	ND<20	FALSE
PH1-GWC-3	12/11/2014	ND<20	FALSE
PH1-GWC-3	6/25/2015	ND<20	FALSE
PH1-GWC-3	12/10/2015	ND<20	FALSE
PH1-GWC-3	6/17/2016	ND<20	FALSE
PH1-GWC-3	12/9/2016	ND<20	FALSE
PH1-GWC-3	6/14/2017	ND<20	FALSE
PH1-GWC-3	12/13/2017	ND<20	FALSE
PH1-GWC-3	6/20/2018	ND<20	FALSE
PH1-GWC-3	12/19/2018	ND<20	FALSE
PH1-GWC-3	6/11/2019	ND<20	FALSE
PH1-GWC-3A	12/12/2013	ND<20	FALSE
PH1-GWC-3A	6/11/2014	ND<20	FALSE
PH1-GWC-3A	12/11/2014	ND<20	FALSE
PH1-GWC-3A	6/25/2015	ND<20	FALSE
PH1-GWC-3A	12/10/2015	ND<20	FALSE
PH1-GWC-3A	6/17/2016	ND<20	FALSE
PH1-GWC-3A	12/9/2016	ND<20	FALSE
PH1-GWC-3A	6/14/2017	ND<20	FALSE
PH1-GWC-3A	12/13/2017	ND<20	FALSE
PH1-GWC-3A	**6/28/2018**	**21**	**TRUE**
PH1-GWC-3A	12/19/2018	ND<20	FALSE
PH1-GWC-3A	6/11/2019	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 72.4359%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWC-1	12/9/2013	ND<2	FALSE
GWC-1	6/12/2014	ND<2	FALSE
GWC-1	12/11/2014	ND<2	FALSE
GWC-1	6/24/2015	ND<2	FALSE
GWC-1	12/9/2015	ND<2	FALSE
GWC-1	6/14/2016	ND<2	FALSE
GWC-1	12/8/2016	ND<2	FALSE
GWC-1	6/13/2017	ND<2	FALSE
GWC-1	12/13/2017	ND<2	FALSE
GWC-1	6/19/2018	ND<2	FALSE
GWC-1	12/17/2018	ND<2	FALSE
GWC-1	6/13/2019	ND<2	FALSE
PH1-GWB-1	12/10/2013	ND<2	FALSE
PH1-GWB-1	6/9/2014	ND<2	FALSE
PH1-GWB-1	12/9/2014	ND<2	FALSE
PH1-GWB-1	6/22/2015	ND<2	FALSE
PH1-GWB-1	12/7/2015	ND<2	FALSE
PH1-GWB-1	6/13/2016	ND<2	FALSE
PH1-GWB-1	12/7/2016	ND<2	FALSE
PH1-GWB-1	6/15/2017	ND<2	FALSE
PH1-GWB-1	12/12/2017	ND<2	FALSE
PH1-GWB-1	6/18/2018	ND<2	FALSE
PH1-GWB-1	12/17/2018	ND<2	FALSE
PH1-GWB-1	6/11/2019	ND<2	FALSE
PH1-GWC-1	12/10/2013	ND<2	FALSE
PH1-GWC-1	6/12/2014	ND<2	FALSE
PH1-GWC-1	12/11/2014	ND<2	FALSE
PH1-GWC-1	6/24/2015	ND<2	FALSE
PH1-GWC-1	12/8/2015	ND<2	FALSE
PH1-GWC-1	6/15/2016	ND<2	FALSE
PH1-GWC-1	12/8/2016	ND<2	FALSE
PH1-GWC-1	6/15/2017	ND<2	FALSE
PH1-GWC-1	12/11/2017	ND<2	FALSE
PH1-GWC-1	6/19/2018	ND<2	FALSE
PH1-GWC-1	12/19/2018	ND<2	FALSE
PH1-GWC-1	6/13/2019	ND<2	FALSE
PH1-GWC-4	12/10/2013	ND<2	FALSE
PH1-GWC-4	6/11/2014	ND<2	FALSE

PH1-GWC-4	12/11/2014	ND<2	FALSE
PH1-GWC-4	6/24/2015	ND<2	FALSE
PH1-GWC-4	12/7/2015	ND<2	FALSE
PH1-GWC-4	6/13/2016	ND<2	FALSE
PH1-GWC-4	12/8/2016	ND<2	FALSE
PH1-GWC-4	6/15/2017	ND<2	FALSE
PH1-GWC-4	12/11/2017	ND<2	FALSE
PH1-GWC-4	6/19/2018	ND<2	FALSE
PH1-GWC-4	12/19/2018	ND<2	FALSE
PH1-GWC-4	6/13/2019	ND<2	FALSE

PH1-GWA-1	**12/11/2013**	**3.2**	**TRUE**
PH1-GWA-1	6/9/2014	ND<2	FALSE
PH1-GWA-1	**12/10/2014**	**2.7**	**TRUE**
PH1-GWA-1	**6/23/2015**	**2.1**	**TRUE**
PH1-GWA-1	12/8/2015	ND<2	FALSE
PH1-GWA-1	6/14/2016	ND<2	FALSE
PH1-GWA-1	**12/7/2016**	**2.2**	**TRUE**
PH1-GWA-1	6/13/2017	ND<2	FALSE
PH1-GWA-1	12/13/2017	ND<2	FALSE
PH1-GWA-1	6/19/2018	ND<2	FALSE
PH1-GWA-1	12/18/2018	ND<2	FALSE
PH1-GWA-1	6/10/2019	ND<2	FALSE

PH1-GWA-1A	12/11/2013	ND<2	FALSE
PH1-GWA-1A	6/10/2014	ND<2	FALSE
PH1-GWA-1A	12/8/2014	ND<2	FALSE
PH1-GWA-1A	6/23/2015	ND<2	FALSE
PH1-GWA-1A	12/8/2015	ND<2	FALSE
PH1-GWA-1A	6/14/2016	ND<2	FALSE
PH1-GWA-1A	12/7/2016	ND<2	FALSE
PH1-GWA-1A	6/12/2017	ND<2	FALSE
PH1-GWA-1A	12/13/2017	ND<2	FALSE
PH1-GWA-1A	6/19/2018	ND<2	FALSE
PH1-GWA-1A	12/18/2018	ND<2	FALSE
PH1-GWA-1A	6/10/2019	ND<2	FALSE

PH1-GWA-2	**12/11/2013**	**4**	**TRUE**
PH1-GWA-2	**6/9/2014**	**8.1**	**TRUE**
PH1-GWA-2	**12/10/2014**	**6.7**	**TRUE**
PH1-GWA-2	**6/22/2015**	**5.1**	**TRUE**
PH1-GWA-2	**12/8/2015**	**3.5**	**TRUE**
PH1-GWA-2	**6/13/2016**	**3.8**	**TRUE**
PH1-GWA-2	**12/7/2016**	**7.1**	**TRUE**
PH1-GWA-2	**6/15/2017**	**4.1**	**TRUE**
PH1-GWA-2	**12/13/2017**	**5.8**	**TRUE**
PH1-GWA-2	**6/18/2018**	**4.2**	**TRUE**
PH1-GWA-2	**12/18/2018**	**4**	**TRUE**
PH1-GWA-2	**6/11/2019**	**2.1**	**TRUE**

PH1-GWB-2	12/11/2013	ND<2	FALSE
PH1-GWB-2	6/9/2014	ND<2	FALSE
PH1-GWB-2	12/11/2014	ND<2	FALSE

PH1-GWB-2	6/24/2015	ND<2	FALSE
PH1-GWB-2	12/8/2015	ND<2	FALSE
PH1-GWB-2	6/13/2016	ND<2	FALSE
PH1-GWB-2	12/8/2016	ND<2	FALSE
PH1-GWB-2	6/15/2017	ND<2	FALSE
PH1-GWB-2	12/11/2017	ND<2	FALSE
PH1-GWB-2	6/19/2018	ND<2	FALSE
PH1-GWB-2	12/17/2018	ND<2	FALSE
PH1-GWB-2	6/12/2019	ND<2	FALSE

PH1-GWC-2	12/11/2013	ND<2	FALSE
PH1-GWC-2	6/10/2014	ND<2	FALSE
PH1-GWC-2	12/11/2014	ND<2	FALSE
PH1-GWC-2	6/23/2015	ND<2	FALSE
PH1-GWC-2	12/8/2015	ND<2	FALSE
PH1-GWC-2	6/14/2016	ND<2	FALSE
PH1-GWC-2	12/7/2016	ND<2	FALSE
PH1-GWC-2	**6/13/2017**	**2.4**	**TRUE**
PH1-GWC-2	12/13/2017	ND<2	FALSE
PH1-GWC-2	6/19/2018	ND<2	FALSE
PH1-GWC-2	12/18/2018	2	FALSE
PH1-GWC-2	6/10/2019	2	FALSE

PH1-GWC-3	**12/11/2013**	**4.9**	**TRUE**
PH1-GWC-3	**6/10/2014**	**5.7**	**TRUE**
PH1-GWC-3	**12/10/2014**	**4.6**	**TRUE**
PH1-GWC-3	**6/24/2015**	**5.3**	**TRUE**
PH1-GWC-3	**12/9/2015**	**6.9**	**TRUE**
PH1-GWC-3	**6/16/2016**	**5.6**	**TRUE**
PH1-GWC-3	**12/8/2016**	**7.6**	**TRUE**
PH1-GWC-3	**6/13/2017**	**7**	**TRUE**
PH1-GWC-3	**12/12/2017**	**8.4**	**TRUE**
PH1-GWC-3	**6/19/2018**	**6.9**	**TRUE**
PH1-GWC-3	**12/18/2018**	**6.8**	**TRUE**
PH1-GWC-3	**6/10/2019**	**7.4**	**TRUE**

PH1-GWC-3A	**12/11/2013**	**6.8**	**TRUE**
PH1-GWC-3A	**6/10/2014**	**7.3**	**TRUE**
PH1-GWC-3A	**12/10/2014**	**5.8**	**TRUE**
PH1-GWC-3A	**6/24/2015**	**6.5**	**TRUE**
PH1-GWC-3A	**12/9/2015**	**6.7**	**TRUE**
PH1-GWC-3A	**6/16/2016**	**4.6**	**TRUE**
PH1-GWC-3A	**12/8/2016**	**6.8**	**TRUE**
PH1-GWC-3A	**6/13/2017**	**6**	**TRUE**
PH1-GWC-3A	**12/12/2017**	**6.6**	**TRUE**
PH1-GWC-3A	**6/19/2018**	**6.8**	**TRUE**
PH1-GWC-3A	**12/18/2018**	**5.8**	**TRUE**
PH1-GWC-3A	**6/10/2019**	**5.7**	**TRUE**

Non-Parametric Tolerance Interval

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 84.596%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWC-10	12/9/2013	ND<2	FALSE
GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
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-10A	12/9/2013	ND<2	FALSE
GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-13	12/9/2013	ND<2	FALSE
GWC-13	6/9/2014	ND<2	FALSE

GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
GWC-13	6/14/2017	ND<2	FALSE
GWC-13	12/12/2017	ND<2	FALSE
GWC-13	6/19/2018	ND<2	FALSE
GWC-13	12/19/2018	ND<2	FALSE
GWC-13	6/12/2019	ND<2	FALSE
GWC-2	12/9/2013	ND<2	FALSE
GWC-2	6/12/2014	ND<2	FALSE
GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
GWC-2	12/13/2017	ND<2	FALSE
GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
GWC-2	6/12/2019	ND<2	FALSE
GWC-22	12/9/2013	ND<2	FALSE
GWC-22	6/10/2014	ND<2	FALSE
GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
GWC-22	6/15/2016	ND<2	FALSE
GWC-22	12/6/2016	ND<2	FALSE
GWC-22	6/14/2017	ND<2	FALSE
GWC-22	12/11/2017	ND<2	FALSE
GWC-22	6/19/2018	ND<2	FALSE
GWC-22	12/18/2018	ND<2	FALSE
GWC-22	6/12/2019	ND<2	FALSE
GWC-23	12/9/2013	ND<2	FALSE
GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
GWC-23	12/6/2016	ND<2	FALSE
GWC-23	6/14/2017	ND<2	FALSE
GWC-23	12/11/2017	ND<2	FALSE
GWC-23	6/18/2018	ND<2	FALSE
GWC-23	12/18/2018	ND<2	FALSE
GWC-23	6/12/2019	ND<2	FALSE
GWC-23A	12/9/2013	ND<2	FALSE
GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE

GWC-23A	6/22/2015	ND<2	FALSE
GWC-23A	12/8/2015	ND<2	FALSE
GWC-23A	6/15/2016	ND<2	FALSE
GWC-23A	12/6/2016	ND<2	FALSE
GWC-23A	6/14/2017	ND<2	FALSE
GWC-23A	12/11/2017	ND<2	FALSE
GWC-23A	6/18/2018	ND<2	FALSE
GWC-23A	12/18/2018	ND<2	FALSE
GWC-23A	6/12/2019	ND<2	FALSE
GWC-3	12/9/2013	ND<2	FALSE
GWC-3	6/11/2014	ND<2	FALSE
GWC-3	6/24/2015	ND<2	FALSE
GWC-3	12/9/2015	ND<2	FALSE
GWC-3	6/14/2016	ND<2	FALSE
GWC-3	12/8/2016	ND<2	FALSE
GWC-3	6/15/2017	ND<2	FALSE
GWC-3	6/21/2018	ND<2	FALSE
GWC-3	12/17/2018	ND<2	FALSE
GWC-3	6/11/2019	ND<2	FALSE
GWC-3A	12/9/2013	ND<2	FALSE
GWC-3A	6/11/2014	ND<2	FALSE
GWC-3A	12/11/2014	ND<2	FALSE
GWC-3A	6/24/2015	ND<2	FALSE
GWC-3A	12/9/2015	ND<2	FALSE
GWC-3A	6/14/2016	ND<2	FALSE
GWC-3A	12/8/2016	ND<2	FALSE
GWC-3A	6/15/2017	ND<2	FALSE
GWC-3A	12/12/2017	ND<2	FALSE
GWC-3A	6/20/2018	ND<2	FALSE
GWC-3A	12/17/2018	ND<2	FALSE
GWC-3A	6/11/2019	ND<2	FALSE
GWC-4	12/9/2013	ND<2	FALSE
GWC-4	6/12/2014	ND<2	FALSE
GWC-4	12/11/2014	ND<2	FALSE
GWC-4	6/24/2015	ND<2	FALSE
GWC-4	12/9/2015	ND<2	FALSE
GWC-4	6/16/2016	ND<2	FALSE
GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
GWC-5	12/9/2013	ND<2	FALSE
GWC-5	6/10/2014	ND<2	FALSE
GWC-5	12/8/2014	ND<2	FALSE
GWC-5	6/24/2015	ND<2	FALSE
GWC-5	12/7/2015	ND<2	FALSE
GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
GWC-5	6/12/2017	ND<2	FALSE
GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE

GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
GWC-6	12/9/2013	ND<2	FALSE
GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
GWC-6	6/22/2015	ND<2	FALSE
GWC-6	12/8/2015	ND<2	FALSE
GWC-6	6/14/2016	ND<2	FALSE
GWC-6	12/8/2016	ND<2	FALSE
GWC-6	6/12/2017	ND<2	FALSE
GWC-6	12/13/2017	ND<2	FALSE
GWC-6	6/21/2018	ND<2	FALSE
GWC-6	12/19/2018	ND<2	FALSE
GWC-6	6/12/2019	ND<2	FALSE
GWC-7	12/9/2013	ND<2	FALSE
GWC-7	6/10/2014	ND<2	FALSE
GWC-7	12/8/2014	ND<2	FALSE
GWC-7	6/24/2015	ND<2	FALSE
GWC-7	12/7/2015	ND<2	FALSE
GWC-7	6/15/2016	ND<2	FALSE
GWC-7	12/8/2016	ND<2	FALSE
GWC-7	6/12/2017	ND<2	FALSE
GWC-7	12/12/2017	ND<2	FALSE
GWC-7	6/19/2018	ND<2	FALSE
GWC-7	12/18/2018	ND<2	FALSE
GWC-7	6/12/2019	ND<2	FALSE
GWC-9	12/9/2013	ND<2	FALSE
GWC-9	6/11/2014	ND<2	FALSE
GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
GWC-9	12/8/2015	ND<2	FALSE
GWC-9	6/14/2016	ND<2	FALSE
GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
GWC-9	12/13/2017	ND<2	FALSE
GWC-9	6/20/2018	ND<2	FALSE
GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWA-1A	12/10/2013	ND<2	FALSE
GWA-1A	6/10/2014	ND<2	FALSE
GWA-1A	12/8/2014	ND<2	FALSE
GWA-1A	6/23/2015	ND<2	FALSE
GWA-1A	12/8/2015	ND<2	FALSE
GWA-1A	6/14/2016	ND<2	FALSE
GWA-1A	12/7/2016	ND<2	FALSE
GWA-1A	6/12/2017	ND<2	FALSE
GWA-1A	12/13/2017	ND<2	FALSE
GWA-1A	6/19/2018	ND<2	FALSE
GWA-1A	12/18/2018	ND<2	FALSE

GWA-1A	6/10/2019	ND<2	FALSE
GWC-11	12/10/2013	ND<2	FALSE
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
GWC-11	12/7/2015	ND<2	FALSE
GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
GWC-11	6/14/2017	ND<2	FALSE
GWC-11	12/13/2017	ND<2	FALSE
GWC-11	6/19/2018	ND<2	FALSE
GWC-11	12/19/2018	ND<2	FALSE
GWC-11	6/12/2019	ND<2	FALSE
GWC-12	12/10/2013	ND<2	FALSE
GWC-12	6/9/2014	ND<2	FALSE
GWC-12	12/9/2014	ND<2	FALSE
GWC-12	6/22/2015	ND<2	FALSE
GWC-12	12/7/2015	ND<2	FALSE
GWC-12	6/14/2016	ND<2	FALSE
GWC-12	12/7/2016	ND<2	FALSE
GWC-12	6/14/2017	ND<2	FALSE
GWC-12	12/13/2017	ND<2	FALSE
GWC-12	6/19/2018	ND<2	FALSE
GWC-12	12/19/2018	ND<2	FALSE
GWC-12	6/11/2019	ND<2	FALSE
GWC-12A	12/10/2013	ND<2	FALSE
GWC-12A	6/9/2014	ND<2	FALSE
GWC-12A	12/9/2014	ND<2	FALSE
GWC-12A	6/22/2015	ND<2	FALSE
GWC-12A	12/7/2015	ND<2	FALSE
GWC-12A	6/14/2016	ND<2	FALSE
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-14	12/10/2013	ND<2	FALSE
GWC-14	6/11/2014	ND<2	FALSE
GWC-14	12/10/2014	ND<2	FALSE
GWC-14	6/24/2015	ND<2	FALSE
GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-24	12/10/2013	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
GWC-24	12/7/2016	ND<2	FALSE
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	6/19/2018	ND<2	FALSE
GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-15	12/11/2013	ND<2	FALSE
GWC-15	6/10/2014	ND<2	FALSE
GWC-15	**12/10/2014**	**5.4**	**TRUE**
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	**12/9/2015**	**5.2**	**TRUE**
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**38**	**TRUE**
GWC-15	**6/14/2017**	**2.9**	**TRUE**
GWC-15	**12/13/2017**	**3.7**	**TRUE**
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	**12/19/2018**	**3**	**TRUE**
GWC-15	**6/11/2019**	**38**	**TRUE**
GWC-17	12/11/2013	ND<2	FALSE
GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
GWC-17	12/12/2017	ND<2	FALSE
GWC-17	6/19/2018	ND<2	FALSE
GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-18	12/11/2013	ND<2	FALSE
GWC-18	6/9/2014	2	FALSE
GWC-18	**12/10/2014**	**2.9**	**TRUE**
GWC-18	**6/22/2015**	**2.7**	**TRUE**
GWC-18	12/9/2015	ND<2	FALSE
GWC-18	6/13/2016	ND<2	FALSE
GWC-18	12/6/2016	ND<2	FALSE
GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
GWC-18	12/18/2018	ND<2	FALSE
GWC-18	6/11/2019	ND<2	FALSE
GWC-19R	12/11/2013	ND<2	FALSE
GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE

GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE

GWC-14A	**12/12/2013**	**12**	**TRUE**
GWC-14A	**6/11/2014**	**14**	**TRUE**
GWC-14A	**12/10/2014**	**19**	**TRUE**
GWC-14A	**6/23/2015**	**13**	**TRUE**
GWC-14A	**12/9/2015**	**16**	**TRUE**
GWC-14A	**6/15/2016**	**16**	**TRUE**
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-14R	**12/12/2013**	**30**	**TRUE**
GWC-14R	**6/11/2014**	**34**	**TRUE**
GWC-14R	**12/10/2014**	**30**	**TRUE**
GWC-14R	**6/23/2015**	**25**	**TRUE**
GWC-14R	**12/10/2015**	**22**	**TRUE**
GWC-14R	**6/15/2016**	**26**	**TRUE**
GWC-14R	**12/8/2016**	**24**	**TRUE**
GWC-14R	**6/13/2017**	**21**	**TRUE**
GWC-14R	**12/12/2017**	**20**	**TRUE**
GWC-14R	**6/20/2018**	**22**	**TRUE**
GWC-14R	**12/19/2018**	**18**	**TRUE**
GWC-14R	**6/12/2019**	**18**	**TRUE**

GWC-4A	12/12/2013	ND<2	FALSE
GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

GWC-8	12/12/2013	ND<2	FALSE
GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE

GWC-8A	**12/12/2013**	**4.2**	**TRUE**
GWC-8A	**6/11/2014**	**3.6**	**TRUE**
GWC-8A	**12/10/2014**	**6.1**	**TRUE**
GWC-8A	**6/24/2015**	**3**	**TRUE**
GWC-8A	**12/10/2015**	**3.8**	**TRUE**
GWC-8A	**6/15/2016**	**3.4**	**TRUE**
GWC-8A	**12/8/2016**	**5.1**	**TRUE**
GWC-8A	**6/13/2017**	**3**	**TRUE**
GWC-8A	**12/12/2017**	**4.9**	**TRUE**
GWC-8A	**6/20/2018**	**3.9**	**TRUE**
GWC-8A	**12/19/2018**	**4.2**	**TRUE**
GWC-8A	**6/12/2019**	**2.6**	**TRUE**

GWC-8R	**12/12/2013**	**18**	**TRUE**
GWC-8R	**6/11/2014**	**20**	**TRUE**
GWC-8R	**12/10/2014**	**19**	**TRUE**
GWC-8R	**6/23/2015**	**16**	**TRUE**
GWC-8R	**12/10/2015**	**18**	**TRUE**
GWC-8R	**6/15/2016**	**15**	**TRUE**
GWC-8R	**12/8/2016**	**15**	**TRUE**
GWC-8R	**6/13/2017**	**14**	**TRUE**
GWC-8R	**12/12/2017**	**14**	**TRUE**
GWC-8R	**6/20/2018**	**22**	**TRUE**
GWC-8R	**12/19/2018**	**13**	**TRUE**
GWC-8R	**6/12/2019**	**12**	**TRUE**

GWC-16A	**6/12/2014**	**6.5**	**TRUE**
GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**5.5**	**TRUE**
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**3.7**	**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

Non-Parametric Tolerance Interval

Parameter: Acetone

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%
Background measurements (n) = 24
Maximum Background Concentration = 100
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<100	FALSE
GWA-3	6/9/2014	ND<100	FALSE
GWA-3	12/8/2014	ND<100	FALSE
GWA-3	6/22/2015	ND<100	FALSE
GWA-3	12/7/2015	ND<100	FALSE
GWA-3	6/13/2016	ND<100	FALSE
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GWC-16A	**6/14/2017**	**1500**	**TRUE**
GWC-16A	12/13/2017	ND<100	FALSE
GWC-16A	6/21/2018	ND<100	FALSE
GWC-16A	12/19/2018	ND<100	FALSE
GWC-16A	6/13/2019	ND<100	FALSE

Non-Parametric Tolerance Interval

Parameter: Benzene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.4343%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
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GWA-3	6/13/2016	ND<2	FALSE
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GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
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GWC-22	12/18/2018	ND<2	FALSE
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GWC-23	12/9/2013	ND<2	FALSE
GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
GWC-23	6/22/2015	ND<2	FALSE
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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-23A	12/9/2013	ND<2	FALSE
GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE

GWC-23A	6/22/2015	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
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GWC-4	12/7/2016	ND<2	FALSE
GWC-4	6/20/2018	ND<2	FALSE
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GWC-5	6/10/2014	ND<2	FALSE
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GWC-5	12/12/2017	ND<2	FALSE
GWC-5	6/21/2018	ND<2	FALSE

GWC-5	12/18/2018	ND<2	FALSE
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GWA-1A	6/10/2019	ND<2	FALSE
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GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
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GWC-14	6/15/2016	ND<2	FALSE
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GWC-15	**6/11/2019**	**3.1**	**TRUE**
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GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
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GWC-18	6/11/2019	ND<2	FALSE
GWC-19R	12/11/2013	ND<2	FALSE
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GWC-19R	12/10/2014	ND<2	FALSE

GWC-19R	6/22/2015	ND<2	FALSE
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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-14A	12/12/2013	2	FALSE
GWC-14A	**6/11/2014**	**2.2**	**TRUE**
GWC-14A	**12/10/2014**	**2.4**	**TRUE**
GWC-14A	**6/23/2015**	**2.5**	**TRUE**
GWC-14A	**12/9/2015**	**2.3**	**TRUE**
GWC-14A	**6/15/2016**	**2.5**	**TRUE**
GWC-14A	**12/8/2016**	**2.3**	**TRUE**
GWC-14A	**6/13/2017**	**2.8**	**TRUE**
GWC-14A	**12/12/2017**	**3**	**TRUE**
GWC-14A	**6/20/2018**	**2.8**	**TRUE**
GWC-14A	**12/19/2018**	**2.5**	**TRUE**
GWC-14A	**6/11/2019**	**2.1**	**TRUE**

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GWC-14R	6/23/2015	ND<2	FALSE
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GWC-4A	12/9/2015	ND<2	FALSE
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GWC-4A	6/13/2017	ND<2	FALSE
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GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE

GWC-8A	12/12/2013	ND<2	FALSE
GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	**12/10/2014**	**3.1**	**TRUE**
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	**12/10/2015**	**2.7**	**TRUE**
GWC-8A	**6/15/2016**	**2.2**	**TRUE**
GWC-8A	**12/8/2016**	**3.2**	**TRUE**
GWC-8A	**6/13/2017**	**2.3**	**TRUE**
GWC-8A	**12/12/2017**	**3.8**	**TRUE**
GWC-8A	**6/20/2018**	**2.7**	**TRUE**
GWC-8A	**12/19/2018**	**3.3**	**TRUE**
GWC-8A	6/12/2019	ND<2	FALSE

GWC-8R	**12/12/2013**	**2.1**	**TRUE**
GWC-8R	**6/11/2014**	**2.3**	**TRUE**
GWC-8R	**12/10/2014**	**2.2**	**TRUE**
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	ND<2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	ND<2	FALSE
GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**2.8**	**TRUE**
GWC-16A	6/16/2016	ND<2	FALSE
GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	6/14/2017	ND<2	FALSE
GWC-16A	12/13/2017	ND<2	FALSE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	ND<2	FALSE
GWC-16A	6/13/2019	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Chloroethane

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.697%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
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GWC-10	6/11/2014	ND<2	FALSE
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GWC-13	12/7/2016	ND<2	FALSE
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GWC-4	12/7/2016	ND<2	FALSE
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GWC-5	12/8/2014	ND<2	FALSE
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GWC-5	6/14/2016	ND<2	FALSE
GWC-5	12/8/2016	ND<2	FALSE
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GWC-5	6/21/2018	ND<2	FALSE

GWC-5	12/18/2018	ND<2	FALSE
GWC-5	6/12/2019	ND<2	FALSE
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GWC-6	6/10/2014	ND<2	FALSE
GWC-6	12/9/2014	ND<2	FALSE
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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
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GWC-7	6/19/2018	ND<2	FALSE
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GWC-9	12/11/2014	ND<2	FALSE
GWC-9	6/22/2015	ND<2	FALSE
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GWC-9	12/8/2016	ND<2	FALSE
GWC-9	6/15/2017	ND<2	FALSE
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GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
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GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-24	12/10/2013	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
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GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
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GWC-24	6/11/2019	ND<2	FALSE
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GWC-15	12/10/2014	ND<2	FALSE
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	12/9/2015	ND<2	FALSE
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**2.8**	**TRUE**
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GWC-15	12/13/2017	ND<2	FALSE
GWC-15	6/19/2018	ND<2	FALSE
GWC-15	12/19/2018	ND<2	FALSE
GWC-15	6/11/2019	ND<2	FALSE
GWC-17	12/11/2013	ND<2	FALSE
GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
GWC-17	6/22/2015	ND<2	FALSE
GWC-17	12/8/2015	ND<2	FALSE
GWC-17	6/13/2016	ND<2	FALSE
GWC-17	6/14/2017	ND<2	FALSE
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GWC-18	12/10/2014	ND<2	FALSE
GWC-18	6/22/2015	ND<2	FALSE
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GWC-18	6/14/2017	ND<2	FALSE
GWC-18	12/13/2017	ND<2	FALSE
GWC-18	6/19/2018	ND<2	FALSE
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GWC-18	6/11/2019	ND<2	FALSE
GWC-19R	12/11/2013	ND<2	FALSE
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GWC-19R	12/10/2014	ND<2	FALSE

GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	ND<2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE

GWC-14A	**12/12/2013**	**8.7**	**TRUE**
GWC-14A	**6/11/2014**	**7.1**	**TRUE**
GWC-14A	**12/10/2014**	**6.3**	**TRUE**
GWC-14A	**6/23/2015**	**8.2**	**TRUE**
GWC-14A	**12/9/2015**	**6.7**	**TRUE**
GWC-14A	**6/15/2016**	**12**	**TRUE**
GWC-14A	**12/8/2016**	**6.4**	**TRUE**
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**

GWC-14R	**12/12/2013**	**2.2**	**TRUE**
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GWC-14R	6/23/2015	ND<2	FALSE
GWC-14R	12/10/2015	ND<2	FALSE
GWC-14R	6/15/2016	ND<2	FALSE
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GWC-14R	12/12/2017	ND<2	FALSE
GWC-14R	6/20/2018	ND<2	FALSE
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GWC-14R	6/12/2019	ND<2	FALSE

GWC-4A	12/12/2013	ND<2	FALSE
GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

GWC-8	12/12/2013	ND<2	FALSE
GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE

GWC-8A	12/12/2013	ND<2	FALSE
GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
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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-8R	**12/12/2013**	**2.6**	**TRUE**
GWC-8R	**6/11/2014**	**2.7**	**TRUE**
GWC-8R	**12/10/2014**	**2.7**	**TRUE**
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	**12/8/2016**	**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
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GWC-8R	6/12/2019	ND<2	FALSE

GWC-16A	**6/12/2014**	**4.5**	**TRUE**
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GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**6.3**	**TRUE**
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

Non-Parametric Tolerance Interval

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 71.7172%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
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GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
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GWC-13	12/11/2014	ND<2	FALSE
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GWC-2	12/11/2014	ND<2	FALSE
GWC-2	6/24/2015	ND<2	FALSE
GWC-2	12/9/2015	ND<2	FALSE
GWC-2	6/14/2016	ND<2	FALSE
GWC-2	12/8/2016	ND<2	FALSE
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GWC-3A	6/11/2019	ND<2	FALSE
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GWC-6	12/9/2014	ND<2	FALSE
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GWA-1A	12/7/2016	ND<2	FALSE
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GWA-1A	6/10/2019	ND<2	FALSE
GWC-11	12/10/2013	ND<2	FALSE
GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
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GWC-11	6/14/2016	ND<2	FALSE
GWC-11	12/7/2016	ND<2	FALSE
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GWC-12A	12/9/2014	ND<2	FALSE
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GWC-12A	12/7/2015	ND<2	FALSE
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GWC-14	12/9/2015	ND<2	FALSE
GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-24	**12/10/2013**	**8.3**	**TRUE**

GWC-24	**6/11/2014**	**4.6**	**TRUE**
GWC-24	**12/10/2014**	**7.9**	**TRUE**
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GWC-24	**12/8/2015**	**2.4**	**TRUE**
GWC-24	**6/13/2016**	**5.2**	**TRUE**
GWC-24	**12/7/2016**	**5.4**	**TRUE**
GWC-24	6/14/2017	ND<2	FALSE
GWC-24	12/13/2017	ND<2	FALSE
GWC-24	**6/19/2018**	**2.2**	**TRUE**
GWC-24	**12/19/2018**	**3.7**	**TRUE**
GWC-24	**6/11/2019**	**4.4**	**TRUE**
GWC-15	12/11/2013	ND<2	FALSE
GWC-15	6/10/2014	ND<2	FALSE
GWC-15	**12/10/2014**	**13**	**TRUE**
GWC-15	6/23/2015	ND<2	FALSE
GWC-15	**12/9/2015**	**17**	**TRUE**
GWC-15	6/15/2016	ND<2	FALSE
GWC-15	**12/8/2016**	**110**	**TRUE**
GWC-15	**6/14/2017**	**10**	**TRUE**
GWC-15	**12/13/2017**	**11**	**TRUE**
GWC-15	6/19/2018	2	FALSE
GWC-15	**12/19/2018**	**2.9**	**TRUE**
GWC-15	**6/11/2019**	**97**	**TRUE**
GWC-17	**12/11/2013**	**49**	**TRUE**
GWC-17	**6/9/2014**	**4.9**	**TRUE**
GWC-17	**12/10/2014**	**24**	**TRUE**
GWC-17	**6/22/2015**	**10**	**TRUE**
GWC-17	**12/8/2015**	**45**	**TRUE**
GWC-17	**6/13/2016**	**41**	**TRUE**
GWC-17	**6/14/2017**	**8.4**	**TRUE**
GWC-17	**12/12/2017**	**17**	**TRUE**
GWC-17	**6/19/2018**	**4.7**	**TRUE**
GWC-17	**12/19/2018**	**8.7**	**TRUE**
GWC-17	6/12/2019	ND<2	FALSE
GWC-18	**12/11/2013**	**4.5**	**TRUE**
GWC-18	**6/9/2014**	**9.9**	**TRUE**
GWC-18	**12/10/2014**	**16**	**TRUE**
GWC-18	**6/22/2015**	**15**	**TRUE**
GWC-18	**12/9/2015**	**14**	**TRUE**
GWC-18	**6/13/2016**	**3.6**	**TRUE**
GWC-18	**12/6/2016**	**16**	**TRUE**
GWC-18	**6/14/2017**	**16**	**TRUE**
GWC-18	**12/13/2017**	**14**	**TRUE**
GWC-18	**6/19/2018**	**7.7**	**TRUE**
GWC-18	**12/18/2018**	**12**	**TRUE**
GWC-18	**6/11/2019**	**14**	**TRUE**
GWC-19R	**12/11/2013**	**17**	**TRUE**
GWC-19R	**6/10/2014**	**6.9**	**TRUE**
GWC-19R	**12/10/2014**	**11**	**TRUE**

GWC-19R	6/22/2015	6.8	TRUE
GWC-19R	12/9/2015	4.7	TRUE
GWC-19R	6/15/2016	9.3	TRUE
GWC-19R	12/6/2016	13	TRUE
GWC-19R	6/14/2017	2.4	TRUE
GWC-19R	12/13/2017	4.7	TRUE
GWC-19R	6/19/2018	5.1	TRUE
GWC-19R	12/18/2018	2.9	TRUE
GWC-19R	6/11/2019	7.7	TRUE
GWC-14A	12/12/2013	24	TRUE
GWC-14A	6/11/2014	25	TRUE
GWC-14A	12/10/2014	30	TRUE
GWC-14A	6/23/2015	32	TRUE
GWC-14A	12/9/2015	38	TRUE
GWC-14A	6/15/2016	42	TRUE
GWC-14A	12/8/2016	33	TRUE
GWC-14A	6/13/2017	64	TRUE
GWC-14A	12/12/2017	62	TRUE
GWC-14A	6/20/2018	71	TRUE
GWC-14A	12/19/2018	53	TRUE
GWC-14A	6/11/2019	46	TRUE
GWC-14R	12/12/2013	27	TRUE
GWC-14R	6/11/2014	30	TRUE
GWC-14R	12/10/2014	27	TRUE
GWC-14R	6/23/2015	22	TRUE
GWC-14R	12/10/2015	20	TRUE
GWC-14R	6/15/2016	25	TRUE
GWC-14R	12/8/2016	19	TRUE
GWC-14R	6/13/2017	26	TRUE
GWC-14R	12/12/2017	20	TRUE
GWC-14R	6/20/2018	24	TRUE
GWC-14R	12/19/2018	17	TRUE
GWC-14R	6/12/2019	21	TRUE
GWC-4A	12/12/2013	ND<2	FALSE
GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
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GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
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GWC-4A	6/11/2019	ND<2	FALSE
GWC-8	12/12/2013	ND<2	FALSE
GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	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-8A	12/12/2013	23	TRUE
GWC-8A	6/11/2014	18	TRUE
GWC-8A	12/10/2014	33	TRUE
GWC-8A	6/24/2015	19	TRUE
GWC-8A	12/10/2015	29	TRUE
GWC-8A	6/15/2016	25	TRUE
GWC-8A	12/8/2016	32	TRUE
GWC-8A	6/13/2017	27	TRUE
GWC-8A	12/12/2017	37	TRUE
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GWC-8A	12/19/2018	31	TRUE
GWC-8A	6/12/2019	22	TRUE
GWC-8R	12/12/2013	21	TRUE
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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-16A	6/12/2014	75	TRUE
GWC-16A	12/10/2014	4.9	TRUE
GWC-16A	6/24/2015	4.4	TRUE
GWC-16A	12/9/2015	82	TRUE
GWC-16A	6/16/2016	3.4	TRUE
GWC-16A	12/7/2016	3.5	TRUE
GWC-16A	6/14/2017	39	TRUE
GWC-16A	12/13/2017	2.9	TRUE
GWC-16A	6/21/2018	ND<2	FALSE
GWC-16A	12/19/2018	2.5	TRUE
GWC-16A	6/13/2019	ND<2	FALSE

Non-Parametric Tolerance Interval

Parameter: Methylene Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%
Background measurements (n) = 24
Maximum Background Concentration = 5
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<5	FALSE
GWA-3	6/9/2014	ND<5	FALSE
GWA-3	12/8/2014	ND<5	FALSE
GWA-3	6/22/2015	ND<5	FALSE
GWA-3	12/7/2015	ND<5	FALSE
GWA-3	6/13/2016	ND<5	FALSE
GWA-3	12/8/2016	ND<5	FALSE
GWA-3	6/14/2017	ND<5	FALSE
GWA-3	12/11/2017	ND<5	FALSE
GWA-3	6/18/2018	ND<5	FALSE
GWA-3	12/17/2018	ND<5	FALSE
GWA-3	6/11/2019	ND<5	FALSE
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GWC-10	6/11/2014	ND<5	FALSE
GWC-10	12/9/2014	ND<5	FALSE
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GWC-10	12/17/2018	ND<5	FALSE
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GWC-10A	12/9/2013	ND<5	FALSE
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GWC-10A	12/9/2014	ND<5	FALSE
GWC-10A	6/22/2015	ND<5	FALSE
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GWA-1A	12/18/2018	ND<5	FALSE

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GWC-24	6/22/2015	ND<5	FALSE
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GWC-15	12/11/2013	ND<5	FALSE
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GWC-15	12/10/2014	ND<5	FALSE
GWC-15	6/23/2015	ND<5	FALSE
GWC-15	12/9/2015	ND<5	FALSE
GWC-15	6/15/2016	ND<5	FALSE
GWC-15	12/8/2016	ND<5	FALSE
GWC-15	6/14/2017	ND<5	FALSE
GWC-15	12/13/2017	ND<5	FALSE
GWC-15	6/19/2018	ND<5	FALSE
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GWC-17	12/11/2013	ND<5	FALSE
GWC-17	6/9/2014	ND<5	FALSE
GWC-17	12/10/2014	ND<5	FALSE
GWC-17	6/22/2015	ND<5	FALSE
GWC-17	12/8/2015	ND<5	FALSE
GWC-17	6/13/2016	ND<5	FALSE
GWC-17	6/14/2017	ND<5	FALSE
GWC-17	12/12/2017	ND<5	FALSE
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GWC-18	6/9/2014	ND<5	FALSE
GWC-18	12/10/2014	ND<5	FALSE
GWC-18	6/22/2015	ND<5	FALSE
GWC-18	12/9/2015	ND<5	FALSE
GWC-18	6/13/2016	ND<5	FALSE
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GWC-18	12/18/2018	ND<5	FALSE
GWC-18	6/11/2019	ND<5	FALSE
GWC-19R	12/11/2013	ND<5	FALSE
GWC-19R	6/10/2014	ND<5	FALSE
GWC-19R	12/10/2014	ND<5	FALSE

GWC-19R	6/22/2015	ND<5	FALSE
GWC-19R	12/9/2015	ND<5	FALSE
GWC-19R	6/15/2016	ND<5	FALSE
GWC-19R	12/6/2016	ND<5	FALSE
GWC-19R	6/14/2017	ND<5	FALSE
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GWC-19R	6/11/2019	ND<5	FALSE
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GWC-14A	6/11/2014	ND<5	FALSE
GWC-14A	12/10/2014	ND<5	FALSE
GWC-14A	6/23/2015	ND<5	FALSE
GWC-14A	12/9/2015	ND<5	FALSE
GWC-14A	6/15/2016	ND<5	FALSE
GWC-14A	12/8/2016	ND<5	FALSE
GWC-14A	6/13/2017	ND<5	FALSE
GWC-14A	12/12/2017	ND<5	FALSE
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GWC-14R	12/12/2013	ND<5	FALSE
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GWC-14R	12/10/2014	ND<5	FALSE
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GWC-14R	6/20/2018	ND<5	FALSE
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GWC-14R	6/12/2019	ND<5	FALSE
GWC-4A	12/12/2013	ND<5	FALSE
GWC-4A	6/10/2014	ND<5	FALSE
GWC-4A	12/11/2014	ND<5	FALSE
GWC-4A	6/24/2015	ND<5	FALSE
GWC-4A	12/9/2015	ND<5	FALSE
GWC-4A	6/16/2016	ND<5	FALSE
GWC-4A	12/7/2016	ND<5	FALSE
GWC-4A	6/13/2017	ND<5	FALSE
GWC-4A	12/12/2017	ND<5	FALSE
GWC-4A	6/20/2018	ND<5	FALSE
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GWC-4A	6/11/2019	ND<5	FALSE
GWC-8	12/12/2013	ND<5	FALSE
GWC-8	6/11/2014	ND<5	FALSE
GWC-8	12/10/2014	ND<5	FALSE
GWC-8	6/23/2015	ND<5	FALSE

GWC-8	12/10/2015	ND<5	FALSE
GWC-8	6/15/2016	ND<5	FALSE
GWC-8	12/8/2016	ND<5	FALSE
GWC-8	12/12/2017	ND<5	FALSE
GWC-8	6/20/2018	ND<5	FALSE
GWC-8	12/19/2018	ND<5	FALSE
GWC-8	6/12/2019	ND<5	FALSE
GWC-8A	12/12/2013	ND<5	FALSE
GWC-8A	6/11/2014	ND<5	FALSE
GWC-8A	12/10/2014	ND<5	FALSE
GWC-8A	6/24/2015	ND<5	FALSE
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GWC-8A	6/13/2017	ND<5	FALSE
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GWC-8A	6/20/2018	ND<5	FALSE
GWC-8A	12/19/2018	ND<5	FALSE
GWC-8A	6/12/2019	ND<5	FALSE
GWC-8R	12/12/2013	ND<5	FALSE
GWC-8R	6/11/2014	ND<5	FALSE
GWC-8R	12/10/2014	ND<5	FALSE
GWC-8R	6/23/2015	ND<5	FALSE
GWC-8R	12/10/2015	ND<5	FALSE
GWC-8R	6/15/2016	ND<5	FALSE
GWC-8R	12/8/2016	ND<5	FALSE
GWC-8R	6/13/2017	ND<5	FALSE
GWC-8R	12/12/2017	ND<5	FALSE
GWC-8R	6/20/2018	ND<5	FALSE
GWC-8R	12/19/2018	ND<5	FALSE
GWC-8R	6/12/2019	ND<5	FALSE
GWC-16A	**6/12/2014**	**9.5**	**TRUE**
GWC-16A	12/10/2014	ND<5	FALSE
GWC-16A	6/24/2015	ND<5	FALSE
GWC-16A	12/9/2015	ND<5	FALSE
GWC-16A	6/16/2016	ND<5	FALSE
GWC-16A	12/7/2016	ND<5	FALSE
GWC-16A	**6/14/2017**	**6.3**	**TRUE**
GWC-16A	12/13/2017	ND<5	FALSE
GWC-16A	6/21/2018	ND<5	FALSE
GWC-16A	12/19/2018	ND<5	FALSE
GWC-16A	6/13/2019	ND<5	FALSE

Non-Parametric Tolerance Interval

Parameter: Tetrachloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 90.1515%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWC-10	12/9/2013	ND<2	FALSE
GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
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-10A	12/9/2013	ND<2	FALSE
GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
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GWC-13	6/9/2014	ND<2	FALSE

GWC-13	12/11/2014	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
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GWC-23A	6/14/2017	ND<2	FALSE
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GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
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GWC-11	6/9/2014	ND<2	FALSE
GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
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GWC-14	6/15/2016	ND<2	FALSE
GWC-14	6/13/2017	ND<2	FALSE
GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-24	12/10/2013	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
GWC-24	12/8/2015	ND<2	FALSE
GWC-24	6/13/2016	ND<2	FALSE
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GWC-24	12/19/2018	ND<2	FALSE
GWC-24	6/11/2019	ND<2	FALSE
GWC-15	**12/11/2013**	**12**	**TRUE**
GWC-15	**6/10/2014**	**17**	**TRUE**
GWC-15	**12/10/2014**	**8.5**	**TRUE**
GWC-15	**6/23/2015**	**11**	**TRUE**
GWC-15	**12/9/2015**	**6.1**	**TRUE**
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**
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GWC-17	6/9/2014	ND<2	FALSE
GWC-17	12/10/2014	ND<2	FALSE
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GWC-17	12/19/2018	ND<2	FALSE
GWC-17	6/12/2019	ND<2	FALSE
GWC-18	**12/11/2013**	**5.6**	**TRUE**
GWC-18	**6/9/2014**	**14**	**TRUE**
GWC-18	**12/10/2014**	**14**	**TRUE**
GWC-18	**6/22/2015**	**10**	**TRUE**
GWC-18	**12/9/2015**	**9**	**TRUE**
GWC-18	**6/13/2016**	**4**	**TRUE**
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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-19R	12/11/2013	2	FALSE
GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE

GWC-19R	6/22/2015	ND<2	FALSE
GWC-19R	12/9/2015	ND<2	FALSE
GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
GWC-19R	12/13/2017	ND<2	FALSE
GWC-19R	6/19/2018	ND<2	FALSE
GWC-19R	12/18/2018	2	FALSE
GWC-19R	6/11/2019	ND<2	FALSE

GWC-14A	12/12/2013	ND<2	FALSE
GWC-14A	6/11/2014	ND<2	FALSE
GWC-14A	12/10/2014	ND<2	FALSE
GWC-14A	6/23/2015	ND<2	FALSE
GWC-14A	12/9/2015	ND<2	FALSE
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GWC-14A	12/12/2017	ND<2	FALSE
GWC-14A	6/20/2018	ND<2	FALSE
GWC-14A	12/19/2018	ND<2	FALSE
GWC-14A	6/11/2019	ND<2	FALSE

GWC-14R	**12/12/2013**	**4.1**	**TRUE**
GWC-14R	**6/11/2014**	**5.9**	**TRUE**
GWC-14R	**12/10/2014**	**4.4**	**TRUE**
GWC-14R	**6/23/2015**	**3.5**	**TRUE**
GWC-14R	**12/10/2015**	**2.8**	**TRUE**
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
GWC-14R	6/12/2019	ND<2	FALSE

GWC-4A	12/12/2013	ND<2	FALSE
GWC-4A	6/10/2014	ND<2	FALSE
GWC-4A	12/11/2014	ND<2	FALSE
GWC-4A	6/24/2015	ND<2	FALSE
GWC-4A	12/9/2015	ND<2	FALSE
GWC-4A	6/16/2016	ND<2	FALSE
GWC-4A	12/7/2016	ND<2	FALSE
GWC-4A	6/13/2017	ND<2	FALSE
GWC-4A	12/12/2017	ND<2	FALSE
GWC-4A	6/20/2018	ND<2	FALSE
GWC-4A	12/17/2018	ND<2	FALSE
GWC-4A	6/11/2019	ND<2	FALSE

GWC-8	12/12/2013	ND<2	FALSE
GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
GWC-8	12/19/2018	ND<2	FALSE
GWC-8	6/12/2019	ND<2	FALSE

GWC-8A	12/12/2013	ND<2	FALSE
GWC-8A	6/11/2014	ND<2	FALSE
GWC-8A	12/10/2014	ND<2	FALSE
GWC-8A	6/24/2015	ND<2	FALSE
GWC-8A	12/10/2015	ND<2	FALSE
GWC-8A	6/15/2016	ND<2	FALSE
GWC-8A	12/8/2016	ND<2	FALSE
GWC-8A	6/13/2017	ND<2	FALSE
GWC-8A	12/12/2017	ND<2	FALSE
GWC-8A	6/20/2018	ND<2	FALSE
GWC-8A	12/19/2018	ND<2	FALSE
GWC-8A	6/12/2019	ND<2	FALSE

GWC-8R	12/12/2013	ND<2	FALSE
GWC-8R	6/11/2014	ND<2	FALSE
GWC-8R	12/10/2014	ND<2	FALSE
GWC-8R	6/23/2015	ND<2	FALSE
GWC-8R	12/10/2015	ND<2	FALSE
GWC-8R	6/15/2016	ND<2	FALSE
GWC-8R	12/8/2016	ND<2	FALSE
GWC-8R	6/13/2017	ND<2	FALSE
GWC-8R	12/12/2017	ND<2	FALSE
GWC-8R	6/20/2018	2	FALSE
GWC-8R	12/19/2018	ND<2	FALSE
GWC-8R	6/12/2019	ND<2	FALSE

GWC-16A	6/12/2014	ND<2	FALSE
GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**3.7**	**TRUE**
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

Non-Parametric Tolerance Interval

Parameter: Toluene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4949%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWC-10	12/9/2013	ND<2	FALSE
GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
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-10A	12/9/2013	ND<2	FALSE
GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
GWC-10A	12/7/2015	ND<2	FALSE
GWC-10A	6/14/2016	ND<2	FALSE
GWC-10A	12/8/2016	ND<2	FALSE
GWC-10A	6/15/2017	ND<2	FALSE
GWC-10A	12/12/2017	ND<2	FALSE
GWC-10A	6/19/2018	ND<2	FALSE
GWC-10A	12/17/2018	ND<2	FALSE
GWC-10A	6/10/2019	ND<2	FALSE
GWC-13	12/9/2013	ND<2	FALSE
GWC-13	6/9/2014	ND<2	FALSE

GWC-13	12/11/2014	ND<2	FALSE
GWC-13	6/22/2015	ND<2	FALSE
GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
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GWC-13	6/19/2018	ND<2	FALSE
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GWC-2	12/11/2014	ND<2	FALSE
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GWC-2	12/8/2016	ND<2	FALSE
GWC-2	6/15/2017	ND<2	FALSE
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GWC-2	6/20/2018	ND<2	FALSE
GWC-2	12/19/2018	ND<2	FALSE
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GWC-22	12/8/2014	ND<2	FALSE
GWC-22	6/22/2015	ND<2	FALSE
GWC-22	12/9/2015	ND<2	FALSE
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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-23	12/9/2013	ND<2	FALSE
GWC-23	6/12/2014	ND<2	FALSE
GWC-23	12/8/2014	ND<2	FALSE
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GWC-23	12/8/2015	ND<2	FALSE
GWC-23	6/15/2016	ND<2	FALSE
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GWC-23	6/12/2019	ND<2	FALSE
GWC-23A	12/9/2013	ND<2	FALSE
GWC-23A	6/11/2014	ND<2	FALSE
GWC-23A	12/8/2014	ND<2	FALSE

GWC-23A	6/22/2015	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
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GWC-23A	6/14/2017	ND<2	FALSE
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GWC-5	12/18/2018	ND<2	FALSE
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GWC-6	12/9/2014	ND<2	FALSE
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GWC-9	12/18/2018	ND<2	FALSE
GWC-9	6/12/2019	ND<2	FALSE
GWA-1A	12/10/2013	ND<2	FALSE
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GWC-11	12/10/2013	ND<2	FALSE
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GWC-11	12/9/2014	ND<2	FALSE
GWC-11	6/22/2015	ND<2	FALSE
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GWC-14	6/20/2018	ND<2	FALSE
GWC-14	6/11/2019	ND<2	FALSE
GWC-24	12/10/2013	ND<2	FALSE

GWC-24	6/11/2014	ND<2	FALSE
GWC-24	12/10/2014	ND<2	FALSE
GWC-24	6/22/2015	ND<2	FALSE
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GWC-24	6/13/2016	ND<2	FALSE
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GWC-19R	6/10/2014	ND<2	FALSE
GWC-19R	12/10/2014	ND<2	FALSE

GWC-19R	6/22/2015	ND<2	FALSE
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GWC-19R	6/15/2016	ND<2	FALSE
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GWC-19R	6/14/2017	ND<2	FALSE
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GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
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GWC-16A	**12/9/2015**	**4.3**	**TRUE**
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GWC-16A	12/7/2016	ND<2	FALSE
GWC-16A	**6/14/2017**	**3.2**	**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

Non-Parametric Tolerance Interval

Parameter: Total Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 33.1492%
Background measurements (n) = 24
Maximum Background Concentration = 36
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/10/2013	35	FALSE
GWA-1A	6/10/2014	31	FALSE
GWA-1A	**12/8/2014**	**38**	**TRUE**
GWA-1A	**6/23/2015**	**38**	**TRUE**
GWA-1A	12/8/2015	34	FALSE
GWA-1A	6/14/2016	35	FALSE
GWA-1A	12/7/2016	33	FALSE
GWA-1A	6/12/2017	36	FALSE
GWA-1A	12/13/2017	33	FALSE
GWA-1A	6/20/2018	30	FALSE
GWA-1A	12/18/2018	32	FALSE
GWA-1A	**6/10/2019**	**41**	**TRUE**
GWA-3	12/10/2013	ND<20	FALSE
GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	ND<20	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWC-10	12/10/2013	ND<20	FALSE
GWC-10	6/12/2014	ND<20	FALSE
GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	22	FALSE
GWC-10	12/8/2015	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-10A	12/10/2013	21	FALSE
GWC-10A	6/12/2014	20	FALSE

GWC-10A	12/10/2014	27	FALSE
GWC-10A	6/23/2015	27	FALSE
GWC-10A	12/8/2015	27	FALSE
GWC-10A	6/15/2016	29	FALSE
GWC-10A	12/9/2016	31	FALSE
GWC-10A	6/16/2017	31	FALSE
GWC-10A	12/13/2017	32	FALSE
GWC-10A	6/20/2018	34	FALSE
GWC-10A	12/18/2018	35	FALSE
GWC-10A	6/11/2019	33	FALSE
GWC-13	12/10/2013	ND<20	FALSE
GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	31	FALSE
GWC-13	**6/23/2015**	**37**	**TRUE**
GWC-13	12/8/2015	34	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	36	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-2	12/10/2013	ND<20	FALSE
GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	22	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	ND<20	FALSE
GWC-2	6/13/2019	ND<20	FALSE
GWC-22	12/10/2013	ND<20	FALSE
GWC-22	**6/11/2014**	**40**	**TRUE**
GWC-22	12/9/2014	23	FALSE
GWC-22	6/23/2015	24	FALSE
GWC-22	12/10/2015	24	FALSE
GWC-22	6/16/2016	25	FALSE
GWC-22	12/7/2016	23	FALSE
GWC-22	6/15/2017	28	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	24	FALSE
GWC-22	12/19/2018	21	FALSE
GWC-22	6/13/2019	21	FALSE
GWC-23	12/10/2013	24	FALSE
GWC-23	6/12/2014	ND<20	FALSE
GWC-23	12/9/2014	ND<20	FALSE

GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23A	12/10/2013	ND<20	FALSE
GWC-23A	6/11/2014	ND<20	FALSE
GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	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-3	12/10/2013	ND<20	FALSE
GWC-3	6/12/2014	21	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	ND<20	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3A	**12/10/2013**	**38**	**TRUE**
GWC-3A	6/12/2014	33	FALSE
GWC-3A	**12/12/2014**	**40**	**TRUE**
GWC-3A	**6/25/2015**	**39**	**TRUE**
GWC-3A	**12/10/2015**	**40**	**TRUE**
GWC-3A	**6/15/2016**	**38**	**TRUE**
GWC-3A	**12/9/2016**	**43**	**TRUE**
GWC-3A	**6/16/2017**	**40**	**TRUE**
GWC-3A	**12/13/2017**	**38**	**TRUE**
GWC-3A	**6/21/2018**	**39**	**TRUE**
GWC-3A	**12/18/2018**	**38**	**TRUE**
GWC-3A	**6/12/2019**	**46**	**TRUE**
GWC-4	12/10/2013	28	FALSE
GWC-4	6/13/2014	21	FALSE
GWC-4	12/12/2014	24	FALSE
GWC-4	6/25/2015	24	FALSE
GWC-4	12/10/2015	23	FALSE
GWC-4	6/17/2016	24	FALSE
GWC-4	12/8/2016	25	FALSE
GWC-4	6/21/2018	20	FALSE

GWC-5	12/10/2013	ND<20	FALSE
GWC-5	6/11/2014	ND<20	FALSE
GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	ND<20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	ND<20	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-6	12/10/2013	ND<20	FALSE
GWC-6	6/11/2014	ND<20	FALSE
GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	**6/21/2018**	**37**	**TRUE**
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-7	**12/10/2013**	**52**	**TRUE**
GWC-7	**6/11/2014**	**52**	**TRUE**
GWC-7	**12/9/2014**	**55**	**TRUE**
GWC-7	**6/25/2015**	**54**	**TRUE**
GWC-7	**12/8/2015**	**47**	**TRUE**
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-9	**12/10/2013**	**92**	**TRUE**
GWC-9	**6/12/2014**	**89**	**TRUE**
GWC-9	**12/12/2014**	**59**	**TRUE**
GWC-9	**6/23/2015**	**110**	**TRUE**
GWC-9	**12/9/2015**	**52**	**TRUE**
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-11	12/11/2013	22	FALSE
GWC-11	6/10/2014	28	FALSE
GWC-11	12/10/2014	25	FALSE
GWC-11	6/23/2015	28	FALSE
GWC-11	12/8/2015	27	FALSE
GWC-11	6/15/2016	24	FALSE
GWC-11	12/8/2016	22	FALSE
GWC-11	6/15/2017	24	FALSE
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-12	12/11/2013	ND<20	FALSE
GWC-12	6/10/2014	34	FALSE
GWC-12	12/10/2014	21	FALSE
GWC-12	6/23/2015	26	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	34	FALSE
GWC-12	6/12/2019	20	FALSE
GWC-12A	12/11/2013	ND<20	FALSE
GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
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-14	**12/11/2013**	**47**	**TRUE**
GWC-14	6/11/2014	29	FALSE
GWC-14	**12/11/2014**	**52**	**TRUE**
GWC-14	**6/24/2015**	**58**	**TRUE**
GWC-14	**12/10/2015**	**62**	**TRUE**
GWC-14	6/15/2016	26	FALSE
GWC-14	6/21/2018	35	FALSE
GWC-14	6/12/2019	35	FALSE
GWC-15	**12/12/2013**	**93**	**TRUE**
GWC-15	6/11/2014	23	FALSE
GWC-15	**12/11/2014**	**63**	**TRUE**
GWC-15	**6/24/2015**	**87**	**TRUE**

GWC-15	**12/9/2015**	**94**	**TRUE**
GWC-15	**6/16/2016**	**61**	**TRUE**
GWC-15	**12/8/2016**	**60**	**TRUE**
GWC-15	**6/14/2017**	**120**	**TRUE**
GWC-15	**12/14/2017**	**99**	**TRUE**
GWC-15	**6/20/2018**	**98**	**TRUE**
GWC-15	**12/19/2018**	**58**	**TRUE**
GWC-15	**6/11/2019**	**60**	**TRUE**
GWC-17	**12/12/2013**	**50**	**TRUE**
GWC-17	**6/10/2014**	**37**	**TRUE**
GWC-17	**12/11/2014**	**65**	**TRUE**
GWC-17	**6/23/2015**	**43**	**TRUE**
GWC-17	**12/8/2015**	**41**	**TRUE**
GWC-17	**6/14/2016**	**38**	**TRUE**
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-18	**12/12/2013**	**200**	**TRUE**
GWC-18	**6/10/2014**	**170**	**TRUE**
GWC-18	**12/11/2014**	**160**	**TRUE**
GWC-18	**6/23/2015**	**220**	**TRUE**
GWC-18	**12/10/2015**	**140**	**TRUE**
GWC-18	**6/14/2016**	**250**	**TRUE**
GWC-18	**12/7/2016**	**180**	**TRUE**
GWC-18	**6/15/2017**	**180**	**TRUE**
GWC-18	**12/14/2017**	**150**	**TRUE**
GWC-18	**6/20/2018**	**280**	**TRUE**
GWC-18	**12/19/2018**	**140**	**TRUE**
GWC-18	**6/12/2019**	**230**	**TRUE**
GWC-19R	**12/12/2013**	**100**	**TRUE**
GWC-19R	**6/11/2014**	**91**	**TRUE**
GWC-19R	**12/11/2014**	**120**	**TRUE**
GWC-19R	**6/23/2015**	**94**	**TRUE**
GWC-19R	**12/10/2015**	**100**	**TRUE**
GWC-19R	**6/16/2016**	**93**	**TRUE**
GWC-19R	**12/7/2016**	**130**	**TRUE**
GWC-19R	**6/15/2017**	**97**	**TRUE**
GWC-19R	**12/14/2017**	**120**	**TRUE**
GWC-19R	**6/20/2018**	**81**	**TRUE**
GWC-19R	**12/19/2018**	**160**	**TRUE**
GWC-19R	**6/12/2019**	**97**	**TRUE**
GWC-4A	12/12/2013	ND<20	FALSE
GWC-4A	**6/11/2014**	**64**	**TRUE**
GWC-4A	**12/12/2014**	**45**	**TRUE**
GWC-4A	6/25/2015	22	FALSE
GWC-4A	**12/10/2015**	**39**	**TRUE**
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-14A	**12/13/2013**	**170**	**TRUE**
GWC-14A	**6/11/2014**	**190**	**TRUE**
GWC-14A	**12/10/2014**	**220**	**TRUE**
GWC-14A	**6/24/2015**	**210**	**TRUE**
GWC-14A	**12/10/2015**	**200**	**TRUE**
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-8	**12/13/2013**	**49**	**TRUE**
GWC-8	**6/12/2014**	**38**	**TRUE**
GWC-8	12/11/2014	25	FALSE
GWC-8	6/24/2015	20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	22	FALSE
GWC-8	12/9/2016	22	FALSE
GWC-8	12/13/2017	23	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	30	FALSE
GWC-8A	12/13/2013	36	FALSE
GWC-8A	**6/12/2014**	**41**	**TRUE**
GWC-8A	**12/11/2014**	**43**	**TRUE**
GWC-8A	**6/24/2015**	**50**	**TRUE**
GWC-8A	**12/10/2015**	**41**	**TRUE**
GWC-8A	**6/16/2016**	**40**	**TRUE**
GWC-8A	**12/9/2016**	**55**	**TRUE**
GWC-8A	**6/14/2017**	**66**	**TRUE**
GWC-8A	**12/13/2017**	**42**	**TRUE**
GWC-8A	**6/21/2018**	**51**	**TRUE**
GWC-8A	**12/20/2018**	**55**	**TRUE**
GWC-8A	6/13/2019	33	FALSE
GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	27	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	20	FALSE
GWC-16A	**6/13/2014**	**210**	**TRUE**

GWC-16A	12/11/2014	32	FALSE
GWC-16A	**6/24/2015**	**41**	**TRUE**
GWC-16A	**12/10/2015**	**260**	**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

Non-Parametric Tolerance Interval

Parameter: Total Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.3425%
Background measurements (n) = 24
Maximum Background Concentration = 10
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/10/2013	ND<10	FALSE
GWA-1A	6/10/2014	ND<10	FALSE
GWA-1A	12/8/2014	ND<10	FALSE
GWA-1A	6/23/2015	ND<10	FALSE
GWA-1A	12/8/2015	ND<10	FALSE
GWA-1A	6/14/2016	ND<10	FALSE
GWA-1A	12/7/2016	ND<10	FALSE
GWA-1A	6/12/2017	ND<10	FALSE
GWA-1A	12/13/2017	ND<10	FALSE
GWA-1A	6/20/2018	ND<10	FALSE
GWA-1A	12/18/2018	ND<10	FALSE
GWA-1A	6/10/2019	ND<10	FALSE
GWA-3	12/10/2013	ND<10	FALSE
GWA-3	6/10/2014	ND<10	FALSE
GWA-3	12/9/2014	ND<10	FALSE
GWA-3	6/23/2015	ND<10	FALSE
GWA-3	12/8/2015	ND<10	FALSE
GWA-3	6/14/2016	ND<10	FALSE
GWA-3	12/9/2016	ND<10	FALSE
GWA-3	6/15/2017	ND<10	FALSE
GWA-3	12/12/2017	ND<10	FALSE
GWA-3	6/19/2018	ND<10	FALSE
GWA-3	12/18/2018	ND<10	FALSE
GWA-3	6/12/2019	ND<10	FALSE
GWC-10	12/10/2013	ND<10	FALSE
GWC-10	6/12/2014	ND<10	FALSE
GWC-10	12/10/2014	ND<10	FALSE
GWC-10	6/23/2015	ND<10	FALSE
GWC-10	12/8/2015	ND<10	FALSE
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-10A	12/10/2013	ND<10	FALSE
GWC-10A	6/12/2014	ND<10	FALSE

GWC-10A	12/10/2014	ND<10	FALSE
GWC-10A	6/23/2015	ND<10	FALSE
GWC-10A	12/8/2015	ND<10	FALSE
GWC-10A	6/15/2016	ND<10	FALSE
GWC-10A	12/9/2016	ND<10	FALSE
GWC-10A	6/16/2017	ND<10	FALSE
GWC-10A	12/13/2017	ND<10	FALSE
GWC-10A	6/20/2018	ND<10	FALSE
GWC-10A	12/18/2018	ND<10	FALSE
GWC-10A	6/11/2019	ND<10	FALSE
GWC-13	12/10/2013	ND<10	FALSE
GWC-13	6/10/2014	ND<10	FALSE
GWC-13	12/12/2014	ND<10	FALSE
GWC-13	6/23/2015	ND<10	FALSE
GWC-13	12/8/2015	ND<10	FALSE
GWC-13	6/16/2016	ND<10	FALSE
GWC-13	12/8/2016	ND<10	FALSE
GWC-13	6/15/2017	ND<10	FALSE
GWC-13	12/13/2017	ND<10	FALSE
GWC-13	6/20/2018	ND<10	FALSE
GWC-13	12/20/2018	ND<10	FALSE
GWC-13	6/13/2019	ND<10	FALSE
GWC-2	12/10/2013	ND<10	FALSE
GWC-2	6/13/2014	ND<10	FALSE
GWC-2	12/12/2014	ND<10	FALSE
GWC-2	6/25/2015	ND<10	FALSE
GWC-2	12/10/2015	ND<10	FALSE
GWC-2	6/15/2016	ND<10	FALSE
GWC-2	12/9/2016	ND<10	FALSE
GWC-2	6/16/2017	ND<10	FALSE
GWC-2	12/14/2017	ND<10	FALSE
GWC-2	6/21/2018	ND<10	FALSE
GWC-2	12/20/2018	ND<10	FALSE
GWC-2	6/13/2019	ND<10	FALSE
GWC-22	12/10/2013	ND<10	FALSE
GWC-22	6/11/2014	ND<10	FALSE
GWC-22	12/9/2014	ND<10	FALSE
GWC-22	6/23/2015	ND<10	FALSE
GWC-22	12/10/2015	ND<10	FALSE
GWC-22	6/16/2016	ND<10	FALSE
GWC-22	12/7/2016	ND<10	FALSE
GWC-22	6/15/2017	ND<10	FALSE
GWC-22	12/12/2017	ND<10	FALSE
GWC-22	6/20/2018	ND<10	FALSE
GWC-22	12/19/2018	ND<10	FALSE
GWC-22	6/13/2019	ND<10	FALSE
GWC-23	12/10/2013	ND<10	FALSE
GWC-23	6/12/2014	ND<10	FALSE
GWC-23	12/9/2014	ND<10	FALSE

GWC-23	6/23/2015	ND<10	FALSE
GWC-23	12/9/2015	ND<10	FALSE
GWC-23	6/16/2016	ND<10	FALSE
GWC-23	**12/7/2016**	**11**	**TRUE**
GWC-23	6/15/2017	ND<10	FALSE
GWC-23	12/12/2017	ND<10	FALSE
GWC-23	6/19/2018	ND<10	FALSE
GWC-23	12/19/2018	ND<10	FALSE
GWC-23	6/13/2019	ND<10	FALSE

GWC-23A	12/10/2013	ND<10	FALSE
GWC-23A	6/11/2014	ND<10	FALSE
GWC-23A	12/8/2014	ND<10	FALSE
GWC-23A	6/23/2015	ND<10	FALSE
GWC-23A	12/9/2015	ND<10	FALSE
GWC-23A	6/15/2016	ND<10	FALSE
GWC-23A	12/7/2016	ND<10	FALSE
GWC-23A	6/15/2017	ND<10	FALSE
GWC-23A	12/12/2017	ND<10	FALSE
GWC-23A	6/19/2018	ND<10	FALSE
GWC-23A	12/19/2018	ND<10	FALSE
GWC-23A	6/13/2019	ND<10	FALSE

GWC-3	12/10/2013	ND<10	FALSE
GWC-3	6/12/2014	ND<10	FALSE
GWC-3	6/25/2015	ND<10	FALSE
GWC-3	12/10/2015	ND<10	FALSE
GWC-3	6/15/2016	ND<10	FALSE
GWC-3	6/21/2018	ND<10	FALSE
GWC-3	12/18/2018	ND<10	FALSE
GWC-3	6/12/2019	ND<10	FALSE

GWC-3A	12/10/2013	ND<10	FALSE
GWC-3A	**6/12/2014**	**12**	**TRUE**
GWC-3A	12/12/2014	ND<10	FALSE
GWC-3A	6/25/2015	ND<10	FALSE
GWC-3A	12/10/2015	ND<10	FALSE
GWC-3A	6/15/2016	ND<10	FALSE
GWC-3A	12/9/2016	ND<10	FALSE
GWC-3A	6/16/2017	ND<10	FALSE
GWC-3A	12/13/2017	ND<10	FALSE
GWC-3A	6/21/2018	ND<10	FALSE
GWC-3A	12/18/2018	ND<10	FALSE
GWC-3A	6/12/2019	ND<10	FALSE

GWC-4	12/10/2013	ND<10	FALSE
GWC-4	6/13/2014	ND<10	FALSE
GWC-4	12/12/2014	ND<10	FALSE
GWC-4	6/25/2015	ND<10	FALSE
GWC-4	12/10/2015	ND<10	FALSE
GWC-4	6/17/2016	ND<10	FALSE
GWC-4	12/8/2016	ND<10	FALSE
GWC-4	6/21/2018	ND<10	FALSE

GWC-5	12/10/2013	ND<10	FALSE
GWC-5	6/11/2014	ND<10	FALSE
GWC-5	12/9/2014	ND<10	FALSE
GWC-5	6/25/2015	ND<10	FALSE
GWC-5	12/8/2015	ND<10	FALSE
GWC-5	6/15/2016	ND<10	FALSE
GWC-5	12/9/2016	ND<10	FALSE
GWC-5	6/13/2017	ND<10	FALSE
GWC-5	12/13/2017	ND<10	FALSE
GWC-5	6/21/2018	ND<10	FALSE
GWC-5	12/19/2018	ND<10	FALSE
GWC-5	6/13/2019	ND<10	FALSE

GWC-6	12/10/2013	ND<10	FALSE
GWC-6	6/11/2014	ND<10	FALSE
GWC-6	12/10/2014	ND<10	FALSE
GWC-6	6/23/2015	ND<10	FALSE
GWC-6	12/9/2015	ND<10	FALSE
GWC-6	**6/15/2016**	**12**	**TRUE**
GWC-6	12/9/2016	ND<10	FALSE
GWC-6	6/13/2017	ND<10	FALSE
GWC-6	12/14/2017	ND<10	FALSE
GWC-6	6/21/2018	ND<10	FALSE
GWC-6	12/20/2018	ND<10	FALSE
GWC-6	6/13/2019	ND<10	FALSE

GWC-7	12/10/2013	ND<10	FALSE
GWC-7	6/11/2014	ND<10	FALSE
GWC-7	12/9/2014	ND<10	FALSE
GWC-7	6/25/2015	ND<10	FALSE
GWC-7	12/8/2015	ND<10	FALSE
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GWC-7	6/13/2017	ND<10	FALSE
GWC-7	12/13/2017	ND<10	FALSE
GWC-7	6/20/2018	ND<10	FALSE
GWC-7	12/19/2018	ND<10	FALSE
GWC-7	6/13/2019	ND<10	FALSE

GWC-9	12/10/2013	ND<10	FALSE
GWC-9	6/12/2014	ND<10	FALSE
GWC-9	12/12/2014	ND<10	FALSE
GWC-9	6/23/2015	ND<10	FALSE
GWC-9	12/9/2015	ND<10	FALSE
GWC-9	6/15/2016	ND<10	FALSE
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GWC-9	6/16/2017	ND<10	FALSE
GWC-9	12/14/2017	ND<10	FALSE
GWC-9	6/21/2018	ND<10	FALSE
GWC-9	12/19/2018	ND<10	FALSE
GWC-9	6/13/2019	ND<10	FALSE

GWC-11	12/11/2013	ND<10	FALSE
GWC-11	6/10/2014	ND<10	FALSE
GWC-11	12/10/2014	ND<10	FALSE
GWC-11	6/23/2015	ND<10	FALSE
GWC-11	12/8/2015	ND<10	FALSE
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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
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GWC-12A	6/12/2019	ND<10	FALSE
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GWC-14	6/11/2014	ND<10	FALSE
GWC-14	12/11/2014	ND<10	FALSE
GWC-14	6/24/2015	ND<10	FALSE
GWC-14	12/10/2015	ND<10	FALSE
GWC-14	6/15/2016	ND<10	FALSE
GWC-14	6/21/2018	ND<10	FALSE
GWC-14	6/12/2019	ND<10	FALSE
GWC-15	12/12/2013	ND<10	FALSE
GWC-15	6/11/2014	ND<10	FALSE
GWC-15	12/11/2014	ND<10	FALSE
GWC-15	6/24/2015	ND<10	FALSE

GWC-15	12/9/2015	ND<10	FALSE
GWC-15	6/16/2016	ND<10	FALSE
GWC-15	12/8/2016	ND<10	FALSE
GWC-15	6/14/2017	ND<10	FALSE
GWC-15	12/14/2017	ND<10	FALSE
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GWC-15	12/19/2018	ND<10	FALSE
GWC-15	6/11/2019	ND<10	FALSE
GWC-17	12/12/2013	ND<10	FALSE
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GWC-17	12/11/2014	ND<10	FALSE
GWC-17	6/23/2015	ND<10	FALSE
GWC-17	12/8/2015	ND<10	FALSE
GWC-17	6/14/2016	ND<10	FALSE
GWC-17	6/15/2017	ND<10	FALSE
GWC-17	12/13/2017	ND<10	FALSE
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GWC-19R	12/12/2013	ND<10	FALSE
GWC-19R	6/11/2014	ND<10	FALSE
GWC-19R	12/11/2014	ND<10	FALSE
GWC-19R	6/23/2015	ND<10	FALSE
GWC-19R	12/10/2015	ND<10	FALSE
GWC-19R	6/16/2016	ND<10	FALSE
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GWC-4A	12/12/2013	ND<10	FALSE
GWC-4A	6/11/2014	ND<10	FALSE
GWC-4A	12/12/2014	ND<10	FALSE
GWC-4A	6/25/2015	ND<10	FALSE
GWC-4A	**12/10/2015**	**11**	**TRUE**
GWC-4A	6/17/2016	ND<10	FALSE

GWC-4A	12/8/2016	ND<10	FALSE
GWC-4A	6/14/2017	ND<10	FALSE
GWC-4A	**12/13/2017**	**19**	**TRUE**
GWC-4A	6/21/2018	ND<10	FALSE
GWC-4A	12/18/2018	ND<10	FALSE
GWC-4A	**6/12/2019**	**26**	**TRUE**
GWC-14A	12/13/2013	ND<10	FALSE
GWC-14A	6/11/2014	ND<10	FALSE
GWC-14A	12/10/2014	ND<10	FALSE
GWC-14A	6/24/2015	ND<10	FALSE
GWC-14A	12/10/2015	ND<10	FALSE
GWC-14A	6/16/2016	ND<10	FALSE
GWC-14A	12/8/2016	ND<10	FALSE
GWC-14A	6/13/2017	ND<10	FALSE
GWC-14A	12/13/2017	ND<10	FALSE
GWC-14A	6/21/2018	ND<10	FALSE
GWC-14A	12/19/2018	ND<10	FALSE
GWC-14A	6/12/2019	ND<10	FALSE
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GWC-8	12/11/2014	ND<10	FALSE
GWC-8	6/24/2015	ND<10	FALSE
GWC-8	12/10/2015	ND<10	FALSE
GWC-8	6/16/2016	ND<10	FALSE
GWC-8	12/9/2016	ND<10	FALSE
GWC-8	12/13/2017	ND<10	FALSE
GWC-8	6/21/2018	ND<10	FALSE
GWC-8	6/13/2019	ND<10	FALSE
GWC-8A	12/13/2013	ND<10	FALSE
GWC-8A	6/12/2014	ND<10	FALSE
GWC-8A	12/11/2014	ND<10	FALSE
GWC-8A	6/24/2015	ND<10	FALSE
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GWC-8A	12/13/2017	ND<10	FALSE
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GWC-8A	6/13/2019	ND<10	FALSE
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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-16A	6/13/2014	ND<10	FALSE

GWC-16A	12/11/2014	ND<10	FALSE
GWC-16A	6/24/2015	ND<10	FALSE
GWC-16A	12/10/2015	ND<10	FALSE
GWC-16A	6/17/2016	ND<10	FALSE
GWC-16A	12/8/2016	ND<10	FALSE
GWC-16A	6/15/2017	ND<10	FALSE
GWC-16A	12/14/2017	ND<10	FALSE
GWC-16A	6/21/2018	ND<10	FALSE
GWC-16A	12/20/2018	ND<10	FALSE
GWC-16A	6/13/2019	ND<10	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 91.4365%
Background measurements (n) = 24
Maximum Background Concentration = 40
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/10/2013	ND<40	FALSE
GWA-1A	6/10/2014	ND<40	FALSE
GWA-1A	12/8/2014	ND<40	FALSE
GWA-1A	6/23/2015	ND<40	FALSE
GWA-1A	12/8/2015	ND<40	FALSE
GWA-1A	6/14/2016	ND<40	FALSE
GWA-1A	12/7/2016	ND<40	FALSE
GWA-1A	6/12/2017	ND<40	FALSE
GWA-1A	12/13/2017	ND<40	FALSE
GWA-1A	6/20/2018	ND<40	FALSE
GWA-1A	12/18/2018	ND<40	FALSE
GWA-1A	6/10/2019	ND<40	FALSE
GWA-3	12/10/2013	ND<40	FALSE
GWA-3	6/10/2014	ND<40	FALSE
GWA-3	12/9/2014	ND<40	FALSE
GWA-3	6/23/2015	ND<40	FALSE
GWA-3	12/8/2015	ND<40	FALSE
GWA-3	6/14/2016	ND<40	FALSE
GWA-3	12/9/2016	ND<40	FALSE
GWA-3	6/15/2017	ND<40	FALSE
GWA-3	12/12/2017	ND<40	FALSE
GWA-3	6/19/2018	ND<40	FALSE
GWA-3	12/18/2018	ND<40	FALSE
GWA-3	6/12/2019	ND<40	FALSE
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GWC-10	6/23/2015	ND<40	FALSE
GWC-10	12/8/2015	ND<40	FALSE
GWC-10	6/15/2016	ND<40	FALSE
GWC-10	12/9/2016	ND<40	FALSE
GWC-10	6/16/2017	ND<40	FALSE
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GWC-10	6/20/2018	ND<40	FALSE
GWC-10	12/18/2018	ND<40	FALSE
GWC-10	6/11/2019	ND<40	FALSE
GWC-10A	12/10/2013	ND<40	FALSE
GWC-10A	6/12/2014	ND<40	FALSE

GWC-10A	12/10/2014	ND<40	FALSE
GWC-10A	6/23/2015	ND<40	FALSE
GWC-10A	12/8/2015	ND<40	FALSE
GWC-10A	6/15/2016	ND<40	FALSE
GWC-10A	12/9/2016	ND<40	FALSE
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GWC-2	6/25/2015	ND<40	FALSE
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GWC-2	12/9/2016	ND<40	FALSE
GWC-2	6/16/2017	ND<40	FALSE
GWC-2	12/14/2017	ND<40	FALSE
GWC-2	6/21/2018	ND<40	FALSE
GWC-2	12/20/2018	ND<40	FALSE
GWC-2	6/13/2019	ND<40	FALSE
GWC-22	12/10/2013	ND<40	FALSE
GWC-22	**6/11/2014**	**60**	**TRUE**
GWC-22	12/9/2014	ND<40	FALSE
GWC-22	6/23/2015	ND<40	FALSE
GWC-22	12/10/2015	ND<40	FALSE
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GWC-22	12/7/2016	ND<40	FALSE
GWC-22	6/15/2017	ND<40	FALSE
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GWC-22	12/19/2018	ND<40	FALSE
GWC-22	6/13/2019	ND<40	FALSE
GWC-23	12/10/2013	ND<40	FALSE
GWC-23	6/12/2014	ND<40	FALSE
GWC-23	12/9/2014	ND<40	FALSE

GWC-23	6/23/2015	ND<40	FALSE
GWC-23	12/9/2015	ND<40	FALSE
GWC-23	6/16/2016	ND<40	FALSE
GWC-23	12/7/2016	ND<40	FALSE
GWC-23	6/15/2017	ND<40	FALSE
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GWC-23	6/13/2019	ND<40	FALSE
GWC-23A	12/10/2013	ND<40	FALSE
GWC-23A	6/11/2014	ND<40	FALSE
GWC-23A	12/8/2014	ND<40	FALSE
GWC-23A	6/23/2015	ND<40	FALSE
GWC-23A	12/9/2015	ND<40	FALSE
GWC-23A	6/15/2016	ND<40	FALSE
GWC-23A	12/7/2016	ND<40	FALSE
GWC-23A	6/15/2017	ND<40	FALSE
GWC-23A	12/12/2017	ND<40	FALSE
GWC-23A	6/19/2018	ND<40	FALSE
GWC-23A	12/19/2018	ND<40	FALSE
GWC-23A	6/13/2019	ND<40	FALSE
GWC-3	12/10/2013	ND<40	FALSE
GWC-3	6/12/2014	ND<40	FALSE
GWC-3	6/25/2015	ND<40	FALSE
GWC-3	12/10/2015	ND<40	FALSE
GWC-3	6/15/2016	ND<40	FALSE
GWC-3	6/21/2018	ND<40	FALSE
GWC-3	12/18/2018	ND<40	FALSE
GWC-3	6/12/2019	ND<40	FALSE
GWC-3A	12/10/2013	ND<40	FALSE
GWC-3A	6/12/2014	ND<40	FALSE
GWC-3A	12/12/2014	ND<40	FALSE
GWC-3A	6/25/2015	ND<40	FALSE
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GWC-3A	6/16/2017	ND<40	FALSE
GWC-3A	12/13/2017	ND<40	FALSE
GWC-3A	6/21/2018	ND<40	FALSE
GWC-3A	12/18/2018	ND<40	FALSE
GWC-3A	6/12/2019	ND<40	FALSE
GWC-4	12/10/2013	ND<40	FALSE
GWC-4	6/13/2014	ND<40	FALSE
GWC-4	12/12/2014	ND<40	FALSE
GWC-4	6/25/2015	ND<40	FALSE
GWC-4	12/10/2015	ND<40	FALSE
GWC-4	6/17/2016	ND<40	FALSE
GWC-4	12/8/2016	ND<40	FALSE
GWC-4	6/21/2018	ND<40	FALSE

GWC-5	12/10/2013	ND<40	FALSE
GWC-5	6/11/2014	ND<40	FALSE
GWC-5	12/9/2014	ND<40	FALSE
GWC-5	6/25/2015	ND<40	FALSE
GWC-5	12/8/2015	ND<40	FALSE
GWC-5	6/15/2016	ND<40	FALSE
GWC-5	12/9/2016	ND<40	FALSE
GWC-5	6/13/2017	ND<40	FALSE
GWC-5	12/13/2017	ND<40	FALSE
GWC-5	6/21/2018	ND<40	FALSE
GWC-5	12/19/2018	ND<40	FALSE
GWC-5	6/13/2019	ND<40	FALSE
GWC-6	12/10/2013	ND<40	FALSE
GWC-6	6/11/2014	ND<40	FALSE
GWC-6	12/10/2014	ND<40	FALSE
GWC-6	6/23/2015	ND<40	FALSE
GWC-6	12/9/2015	ND<40	FALSE
GWC-6	6/15/2016	ND<40	FALSE
GWC-6	12/9/2016	ND<40	FALSE
GWC-6	6/13/2017	ND<40	FALSE
GWC-6	12/14/2017	ND<40	FALSE
GWC-6	6/21/2018	ND<40	FALSE
GWC-6	12/20/2018	ND<40	FALSE
GWC-6	6/13/2019	ND<40	FALSE
GWC-7	12/10/2013	ND<40	FALSE
GWC-7	6/11/2014	ND<40	FALSE
GWC-7	12/9/2014	ND<40	FALSE
GWC-7	6/25/2015	ND<40	FALSE
GWC-7	12/8/2015	ND<40	FALSE
GWC-7	6/16/2016	ND<40	FALSE
GWC-7	12/9/2016	ND<40	FALSE
GWC-7	6/13/2017	ND<40	FALSE
GWC-7	12/13/2017	ND<40	FALSE
GWC-7	6/20/2018	ND<40	FALSE
GWC-7	12/19/2018	ND<40	FALSE
GWC-7	6/13/2019	ND<40	FALSE
GWC-9	**12/10/2013**	**67**	**TRUE**
GWC-9	**6/12/2014**	**120**	**TRUE**
GWC-9	12/12/2014	ND<40	FALSE
GWC-9	6/23/2015	ND<40	FALSE
GWC-9	12/9/2015	ND<40	FALSE
GWC-9	**6/15/2016**	**50**	**TRUE**
GWC-9	12/9/2016	ND<40	FALSE
GWC-9	6/16/2017	ND<40	FALSE
GWC-9	12/14/2017	ND<40	FALSE
GWC-9	6/21/2018	ND<40	FALSE
GWC-9	12/19/2018	ND<40	FALSE
GWC-9	6/13/2019	ND<40	FALSE

GWC-11	12/11/2013	ND<40	FALSE
GWC-11	6/10/2014	ND<40	FALSE
GWC-11	12/10/2014	ND<40	FALSE
GWC-11	6/23/2015	ND<40	FALSE
GWC-11	12/8/2015	ND<40	FALSE
GWC-11	6/15/2016	ND<40	FALSE
GWC-11	12/8/2016	ND<40	FALSE
GWC-11	6/15/2017	ND<40	FALSE
GWC-11	12/14/2017	ND<40	FALSE
GWC-11	6/20/2018	ND<40	FALSE
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GWC-11	6/13/2019	ND<40	FALSE
GWC-12	12/11/2013	ND<40	FALSE
GWC-12	6/10/2014	ND<40	FALSE
GWC-12	12/10/2014	ND<40	FALSE
GWC-12	6/23/2015	ND<40	FALSE
GWC-12	12/8/2015	ND<40	FALSE
GWC-12	6/15/2016	ND<40	FALSE
GWC-12	12/8/2016	ND<40	FALSE
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GWC-12	6/20/2018	ND<40	FALSE
GWC-12	12/20/2018	ND<40	FALSE
GWC-12	6/12/2019	ND<40	FALSE
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GWC-12A	6/10/2014	ND<40	FALSE
GWC-12A	12/10/2014	ND<40	FALSE
GWC-12A	6/23/2015	ND<40	FALSE
GWC-12A	12/8/2015	ND<40	FALSE
GWC-12A	6/15/2016	ND<40	FALSE
GWC-12A	12/8/2016	ND<40	FALSE
GWC-12A	6/15/2017	ND<40	FALSE
GWC-12A	12/14/2017	ND<40	FALSE
GWC-12A	6/20/2018	ND<40	FALSE
GWC-12A	12/20/2018	ND<40	FALSE
GWC-12A	6/12/2019	ND<40	FALSE
GWC-14	**12/11/2013**	**67**	**TRUE**
GWC-14	**6/11/2014**	**82**	**TRUE**
GWC-14	**12/11/2014**	**48**	**TRUE**
GWC-14	**6/24/2015**	**54**	**TRUE**
GWC-14	**12/10/2015**	**49**	**TRUE**
GWC-14	**6/15/2016**	**88**	**TRUE**
GWC-14	**6/21/2018**	**42**	**TRUE**
GWC-14	**6/12/2019**	**57**	**TRUE**
GWC-15	12/12/2013	ND<40	FALSE
GWC-15	6/11/2014	ND<40	FALSE
GWC-15	12/11/2014	ND<40	FALSE
GWC-15	6/24/2015	ND<40	FALSE

GWC-15	12/9/2015	ND<40	FALSE
GWC-15	6/16/2016	ND<40	FALSE
GWC-15	12/8/2016	ND<40	FALSE
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-17	**12/12/2013**	**52**	**TRUE**
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GWC-17	12/11/2014	ND<40	FALSE
GWC-17	6/23/2015	ND<40	FALSE
GWC-17	12/8/2015	ND<40	FALSE
GWC-17	6/14/2016	ND<40	FALSE
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GWC-18	12/11/2014	ND<40	FALSE
GWC-18	6/23/2015	ND<40	FALSE
GWC-18	12/10/2015	ND<40	FALSE
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GWC-18	12/7/2016	ND<40	FALSE
GWC-18	6/15/2017	ND<40	FALSE
GWC-18	12/14/2017	ND<40	FALSE
GWC-18	6/20/2018	ND<40	FALSE
GWC-18	12/19/2018	ND<40	FALSE
GWC-18	6/12/2019	ND<40	FALSE
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GWC-19R	6/11/2014	ND<40	FALSE
GWC-19R	12/11/2014	ND<40	FALSE
GWC-19R	6/23/2015	ND<40	FALSE
GWC-19R	12/10/2015	ND<40	FALSE
GWC-19R	**6/16/2016**	**47**	**TRUE**
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GWC-19R	6/15/2017	ND<40	FALSE
GWC-19R	12/14/2017	ND<40	FALSE
GWC-19R	6/20/2018	ND<40	FALSE
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GWC-4A	12/12/2013	ND<40	FALSE
GWC-4A	6/11/2014	ND<40	FALSE
GWC-4A	12/12/2014	ND<40	FALSE
GWC-4A	6/25/2015	ND<40	FALSE
GWC-4A	12/10/2015	ND<40	FALSE
GWC-4A	6/17/2016	ND<40	FALSE

GWC-4A	12/8/2016	ND<40	FALSE
GWC-4A	6/14/2017	ND<40	FALSE
GWC-4A	12/13/2017	ND<40	FALSE
GWC-4A	6/21/2018	ND<40	FALSE
GWC-4A	12/18/2018	ND<40	FALSE
GWC-4A	6/12/2019	ND<40	FALSE
GWC-14A	**12/13/2013**	**760**	**TRUE**
GWC-14A	**6/11/2014**	**690**	**TRUE**
GWC-14A	**12/10/2014**	**580**	**TRUE**
GWC-14A	**6/24/2015**	**620**	**TRUE**
GWC-14A	**12/10/2015**	**520**	**TRUE**
GWC-14A	**6/16/2016**	**490**	**TRUE**
GWC-14A	**12/8/2016**	**380**	**TRUE**
GWC-14A	**6/13/2017**	**370**	**TRUE**
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-8	12/13/2013	ND<40	FALSE
GWC-8	6/12/2014	ND<40	FALSE
GWC-8	12/11/2014	ND<40	FALSE
GWC-8	6/24/2015	ND<40	FALSE
GWC-8	12/10/2015	ND<40	FALSE
GWC-8	6/16/2016	ND<40	FALSE
GWC-8	12/9/2016	ND<40	FALSE
GWC-8	12/13/2017	ND<40	FALSE
GWC-8	6/21/2018	ND<40	FALSE
GWC-8	6/13/2019	ND<40	FALSE
GWC-8A	12/13/2013	40	FALSE
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GWC-8A	12/11/2014	ND<40	FALSE
GWC-8A	6/24/2015	ND<40	FALSE
GWC-8A	12/10/2015	ND<40	FALSE
GWC-8A	6/16/2016	ND<40	FALSE
GWC-8A	**12/9/2016**	**44**	**TRUE**
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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-24	6/12/2014	ND<40	FALSE
GWC-24	6/23/2015	ND<40	FALSE
GWC-24	6/14/2016	ND<40	FALSE
GWC-24	6/15/2017	ND<40	FALSE
GWC-24	6/20/2018	ND<40	FALSE
GWC-24	6/12/2019	ND<40	FALSE
GWC-16A	**6/13/2014**	**43**	**TRUE**

GWC-16A	12/11/2014	ND<40	FALSE
GWC-16A	6/24/2015	ND<40	FALSE
GWC-16A	**12/10/2015**	**100**	**TRUE**
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

Non-Parametric Tolerance Interval

Parameter: Total Nickel

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.0276%
Background measurements (n) = 24
Maximum Background Concentration = 20
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/10/2013	ND<20	FALSE
GWA-1A	6/10/2014	ND<20	FALSE
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
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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-3	12/10/2013	ND<20	FALSE
GWA-3	6/10/2014	ND<20	FALSE
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GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	ND<20	FALSE
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GWA-3	12/9/2016	ND<20	FALSE
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GWA-3	6/19/2018	ND<20	FALSE
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GWC-10A	12/10/2013	ND<20	FALSE
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GWC-10A	12/10/2014	ND<20	FALSE
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GWC-23	6/15/2017	ND<20	FALSE
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GWC-4	12/8/2016	ND<20	FALSE
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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

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GWC-11	12/10/2014	ND<20	FALSE
GWC-11	6/23/2015	ND<20	FALSE
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GWC-15	12/12/2013	ND<20	FALSE
GWC-15	6/11/2014	ND<20	FALSE
GWC-15	12/11/2014	ND<20	FALSE
GWC-15	6/24/2015	ND<20	FALSE

GWC-15	12/9/2015	ND<20	FALSE
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GWC-15	12/14/2017	ND<20	FALSE
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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-18	**12/12/2013**	**31**	**TRUE**
GWC-18	6/10/2014	ND<20	FALSE
GWC-18	12/11/2014	ND<20	FALSE
GWC-18	**6/23/2015**	**47**	**TRUE**
GWC-18	12/10/2015	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-19R	12/12/2013	ND<20	FALSE
GWC-19R	6/11/2014	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	ND<20	FALSE
GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-4A	12/12/2013	ND<20	FALSE
GWC-4A	6/11/2014	ND<20	FALSE
GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE

GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	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-14A	**12/13/2013**	**36**	**TRUE**
GWC-14A	**6/11/2014**	**35**	**TRUE**
GWC-14A	**12/10/2014**	**38**	**TRUE**
GWC-14A	**6/24/2015**	**36**	**TRUE**
GWC-14A	**12/10/2015**	**28**	**TRUE**
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-8	12/13/2013	ND<20	FALSE
GWC-8	6/12/2014	ND<20	FALSE
GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	ND<20	FALSE
GWC-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8A	12/13/2013	ND<20	FALSE
GWC-8A	6/12/2014	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	ND<20	FALSE
GWC-8A	12/20/2018	ND<20	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-16A	6/13/2014	ND<20	FALSE

GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	6/15/2017	ND<20	FALSE
GWC-16A	12/14/2017	ND<20	FALSE
GWC-16A	6/21/2018	ND<20	FALSE
GWC-16A	12/20/2018	ND<20	FALSE
GWC-16A	6/13/2019	ND<20	FALSE

Non-Parametric Tolerance Interval

Parameter: Total Zinc

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 72.0994%
Background measurements (n) = 24
Maximum Background Concentration = 61
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-1A	12/10/2013	ND<20	FALSE
GWA-1A	6/10/2014	ND<20	FALSE
GWA-1A	12/8/2014	ND<20	FALSE
GWA-1A	6/23/2015	ND<20	FALSE
GWA-1A	12/8/2015	ND<20	FALSE
GWA-1A	6/14/2016	ND<20	FALSE
GWA-1A	12/7/2016	ND<20	FALSE
GWA-1A	6/12/2017	ND<20	FALSE
GWA-1A	12/13/2017	24	FALSE
GWA-1A	6/20/2018	ND<20	FALSE
GWA-1A	12/18/2018	ND<20	FALSE
GWA-1A	6/10/2019	ND<20	FALSE
GWA-3	12/10/2013	ND<20	FALSE
GWA-3	6/10/2014	ND<20	FALSE
GWA-3	12/9/2014	ND<20	FALSE
GWA-3	6/23/2015	ND<20	FALSE
GWA-3	12/8/2015	43	FALSE
GWA-3	6/14/2016	ND<20	FALSE
GWA-3	12/9/2016	ND<20	FALSE
GWA-3	6/15/2017	ND<20	FALSE
GWA-3	12/12/2017	ND<20	FALSE
GWA-3	6/19/2018	41	FALSE
GWA-3	12/18/2018	ND<20	FALSE
GWA-3	6/12/2019	ND<20	FALSE
GWC-10	12/10/2013	ND<20	FALSE
GWC-10	6/12/2014	ND<20	FALSE
GWC-10	12/10/2014	ND<20	FALSE
GWC-10	6/23/2015	ND<20	FALSE
GWC-10	12/8/2015	26	FALSE
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-10A	12/10/2013	ND<20	FALSE
GWC-10A	6/12/2014	ND<20	FALSE

GWC-10A	12/10/2014	20	FALSE
GWC-10A	6/23/2015	ND<20	FALSE
GWC-10A	12/8/2015	ND<20	FALSE
GWC-10A	6/15/2016	ND<20	FALSE
GWC-10A	12/9/2016	ND<20	FALSE
GWC-10A	6/16/2017	ND<20	FALSE
GWC-10A	12/13/2017	ND<20	FALSE
GWC-10A	6/20/2018	ND<20	FALSE
GWC-10A	12/18/2018	38	FALSE
GWC-10A	6/11/2019	ND<20	FALSE
GWC-13	12/10/2013	ND<20	FALSE
GWC-13	6/10/2014	ND<20	FALSE
GWC-13	12/12/2014	ND<20	FALSE
GWC-13	6/23/2015	45	FALSE
GWC-13	12/8/2015	ND<20	FALSE
GWC-13	6/16/2016	ND<20	FALSE
GWC-13	12/8/2016	ND<20	FALSE
GWC-13	6/15/2017	ND<20	FALSE
GWC-13	12/13/2017	ND<20	FALSE
GWC-13	6/20/2018	ND<20	FALSE
GWC-13	12/20/2018	ND<20	FALSE
GWC-13	6/13/2019	ND<20	FALSE
GWC-2	12/10/2013	ND<20	FALSE
GWC-2	6/13/2014	ND<20	FALSE
GWC-2	12/12/2014	25	FALSE
GWC-2	6/25/2015	ND<20	FALSE
GWC-2	12/10/2015	ND<20	FALSE
GWC-2	6/15/2016	ND<20	FALSE
GWC-2	12/9/2016	ND<20	FALSE
GWC-2	6/16/2017	ND<20	FALSE
GWC-2	12/14/2017	ND<20	FALSE
GWC-2	6/21/2018	ND<20	FALSE
GWC-2	12/20/2018	23	FALSE
GWC-2	6/13/2019	28	FALSE
GWC-22	12/10/2013	ND<20	FALSE
GWC-22	**6/11/2014**	**170**	**TRUE**
GWC-22	12/9/2014	ND<20	FALSE
GWC-22	6/23/2015	ND<20	FALSE
GWC-22	12/10/2015	26	FALSE
GWC-22	6/16/2016	ND<20	FALSE
GWC-22	12/7/2016	ND<20	FALSE
GWC-22	6/15/2017	ND<20	FALSE
GWC-22	12/12/2017	ND<20	FALSE
GWC-22	6/20/2018	21	FALSE
GWC-22	12/19/2018	ND<20	FALSE
GWC-22	6/13/2019	ND<20	FALSE
GWC-23	12/10/2013	ND<20	FALSE
GWC-23	6/12/2014	ND<20	FALSE
GWC-23	12/9/2014	ND<20	FALSE

GWC-23	6/23/2015	ND<20	FALSE
GWC-23	12/9/2015	ND<20	FALSE
GWC-23	6/16/2016	ND<20	FALSE
GWC-23	12/7/2016	ND<20	FALSE
GWC-23	6/15/2017	ND<20	FALSE
GWC-23	12/12/2017	ND<20	FALSE
GWC-23	6/19/2018	ND<20	FALSE
GWC-23	12/19/2018	ND<20	FALSE
GWC-23	6/13/2019	ND<20	FALSE
GWC-23A	12/10/2013	ND<20	FALSE
GWC-23A	6/11/2014	ND<20	FALSE
GWC-23A	12/8/2014	ND<20	FALSE
GWC-23A	6/23/2015	ND<20	FALSE
GWC-23A	12/9/2015	ND<20	FALSE
GWC-23A	6/15/2016	ND<20	FALSE
GWC-23A	12/7/2016	ND<20	FALSE
GWC-23A	6/15/2017	ND<20	FALSE
GWC-23A	12/12/2017	ND<20	FALSE
GWC-23A	6/19/2018	ND<20	FALSE
GWC-23A	12/19/2018	ND<20	FALSE
GWC-23A	6/13/2019	ND<20	FALSE
GWC-3	12/10/2013	ND<20	FALSE
GWC-3	6/12/2014	ND<20	FALSE
GWC-3	6/25/2015	ND<20	FALSE
GWC-3	12/10/2015	ND<20	FALSE
GWC-3	6/15/2016	25	FALSE
GWC-3	6/21/2018	ND<20	FALSE
GWC-3	12/18/2018	ND<20	FALSE
GWC-3	6/12/2019	ND<20	FALSE
GWC-3A	12/10/2013	ND<20	FALSE
GWC-3A	6/12/2014	ND<20	FALSE
GWC-3A	12/12/2014	20	FALSE
GWC-3A	6/25/2015	ND<20	FALSE
GWC-3A	12/10/2015	ND<20	FALSE
GWC-3A	6/15/2016	ND<20	FALSE
GWC-3A	12/9/2016	ND<20	FALSE
GWC-3A	6/16/2017	34	FALSE
GWC-3A	12/13/2017	ND<20	FALSE
GWC-3A	6/21/2018	ND<20	FALSE
GWC-3A	12/18/2018	ND<20	FALSE
GWC-3A	6/12/2019	24	FALSE
GWC-4	12/10/2013	ND<20	FALSE
GWC-4	6/13/2014	ND<20	FALSE
GWC-4	12/12/2014	ND<20	FALSE
GWC-4	6/25/2015	ND<20	FALSE
GWC-4	**12/10/2015**	**62**	**TRUE**
GWC-4	6/17/2016	ND<20	FALSE
GWC-4	12/8/2016	ND<20	FALSE
GWC-4	6/21/2018	25	FALSE

GWC-5	12/10/2013	ND<20	FALSE
GWC-5	6/11/2014	ND<20	FALSE
GWC-5	12/9/2014	ND<20	FALSE
GWC-5	6/25/2015	ND<20	FALSE
GWC-5	12/8/2015	ND<20	FALSE
GWC-5	6/15/2016	ND<20	FALSE
GWC-5	12/9/2016	ND<20	FALSE
GWC-5	6/13/2017	20	FALSE
GWC-5	12/13/2017	ND<20	FALSE
GWC-5	6/21/2018	ND<20	FALSE
GWC-5	12/19/2018	26	FALSE
GWC-5	6/13/2019	ND<20	FALSE
GWC-6	12/10/2013	ND<20	FALSE
GWC-6	6/11/2014	ND<20	FALSE
GWC-6	12/10/2014	ND<20	FALSE
GWC-6	6/23/2015	ND<20	FALSE
GWC-6	12/9/2015	ND<20	FALSE
GWC-6	6/15/2016	ND<20	FALSE
GWC-6	12/9/2016	ND<20	FALSE
GWC-6	6/13/2017	ND<20	FALSE
GWC-6	12/14/2017	ND<20	FALSE
GWC-6	6/21/2018	ND<20	FALSE
GWC-6	12/20/2018	ND<20	FALSE
GWC-6	6/13/2019	ND<20	FALSE
GWC-7	12/10/2013	27	FALSE
GWC-7	6/11/2014	24	FALSE
GWC-7	12/9/2014	27	FALSE
GWC-7	6/25/2015	ND<20	FALSE
GWC-7	12/8/2015	27	FALSE
GWC-7	6/16/2016	36	FALSE
GWC-7	12/9/2016	ND<20	FALSE
GWC-7	6/13/2017	20	FALSE
GWC-7	12/13/2017	ND<20	FALSE
GWC-7	6/20/2018	30	FALSE
GWC-7	**12/19/2018**	**110**	**TRUE**
GWC-7	6/13/2019	23	FALSE
GWC-9	**12/10/2013**	**62**	**TRUE**
GWC-9	6/12/2014	47	FALSE
GWC-9	**12/12/2014**	**86**	**TRUE**
GWC-9	**6/23/2015**	**67**	**TRUE**
GWC-9	12/9/2015	38	FALSE
GWC-9	6/15/2016	54	FALSE
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	FALSE

GWC-11	12/11/2013	ND<20	FALSE
GWC-11	6/10/2014	ND<20	FALSE
GWC-11	12/10/2014	21	FALSE
GWC-11	6/23/2015	29	FALSE
GWC-11	12/8/2015	ND<20	FALSE
GWC-11	6/15/2016	ND<20	FALSE
GWC-11	12/8/2016	ND<20	FALSE
GWC-11	6/15/2017	ND<20	FALSE
GWC-11	12/14/2017	ND<20	FALSE
GWC-11	6/20/2018	26	FALSE
GWC-11	12/20/2018	ND<20	FALSE
GWC-11	6/13/2019	34	FALSE
GWC-12	12/11/2013	ND<20	FALSE
GWC-12	6/10/2014	ND<20	FALSE
GWC-12	12/10/2014	20	FALSE
GWC-12	6/23/2015	ND<20	FALSE
GWC-12	12/8/2015	ND<20	FALSE
GWC-12	6/15/2016	ND<20	FALSE
GWC-12	12/8/2016	ND<20	FALSE
GWC-12	6/15/2017	ND<20	FALSE
GWC-12	12/14/2017	ND<20	FALSE
GWC-12	6/20/2018	ND<20	FALSE
GWC-12	12/20/2018	ND<20	FALSE
GWC-12	6/12/2019	ND<20	FALSE
GWC-12A	12/11/2013	ND<20	FALSE
GWC-12A	6/10/2014	ND<20	FALSE
GWC-12A	12/10/2014	ND<20	FALSE
GWC-12A	6/23/2015	ND<20	FALSE
GWC-12A	12/8/2015	ND<20	FALSE
GWC-12A	6/15/2016	ND<20	FALSE
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-14	12/11/2013	24	FALSE
GWC-14	6/11/2014	21	FALSE
GWC-14	12/11/2014	36	FALSE
GWC-14	6/24/2015	23	FALSE
GWC-14	**12/10/2015**	**68**	**TRUE**
GWC-14	6/15/2016	20	FALSE
GWC-14	**6/21/2018**	**67**	**TRUE**
GWC-14	6/12/2019	ND<20	FALSE
GWC-15	12/12/2013	37	FALSE
GWC-15	6/11/2014	ND<20	FALSE
GWC-15	**12/11/2014**	**270**	**TRUE**
GWC-15	6/24/2015	50	FALSE

GWC-15	12/9/2015	39	FALSE
GWC-15	6/16/2016	55	FALSE
GWC-15	12/8/2016	ND<20	FALSE
GWC-15	**6/14/2017**	**90**	**TRUE**
GWC-15	12/14/2017	60	FALSE
GWC-15	6/20/2018	56	FALSE
GWC-15	12/19/2018	ND<20	FALSE
GWC-15	6/11/2019	ND<20	FALSE
GWC-17	12/12/2013	ND<20	FALSE
GWC-17	6/10/2014	ND<20	FALSE
GWC-17	12/11/2014	ND<20	FALSE
GWC-17	6/23/2015	ND<20	FALSE
GWC-17	12/8/2015	ND<20	FALSE
GWC-17	6/14/2016	ND<20	FALSE
GWC-17	6/15/2017	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-18	12/12/2013	ND<20	FALSE
GWC-18	6/10/2014	ND<20	FALSE
GWC-18	12/11/2014	ND<20	FALSE
GWC-18	6/23/2015	ND<20	FALSE
GWC-18	12/10/2015	ND<20	FALSE
GWC-18	6/14/2016	ND<20	FALSE
GWC-18	12/7/2016	49	FALSE
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-19R	12/12/2013	ND<20	FALSE
GWC-19R	6/11/2014	ND<20	FALSE
GWC-19R	12/11/2014	ND<20	FALSE
GWC-19R	6/23/2015	ND<20	FALSE
GWC-19R	12/10/2015	ND<20	FALSE
GWC-19R	6/16/2016	ND<20	FALSE
GWC-19R	12/7/2016	ND<20	FALSE
GWC-19R	6/15/2017	ND<20	FALSE
GWC-19R	12/14/2017	ND<20	FALSE
GWC-19R	6/20/2018	21	FALSE
GWC-19R	12/19/2018	ND<20	FALSE
GWC-19R	6/12/2019	ND<20	FALSE
GWC-4A	12/12/2013	ND<20	FALSE
GWC-4A	6/11/2014	ND<20	FALSE
GWC-4A	12/12/2014	ND<20	FALSE
GWC-4A	6/25/2015	ND<20	FALSE
GWC-4A	12/10/2015	ND<20	FALSE
GWC-4A	6/17/2016	ND<20	FALSE

GWC-4A	12/8/2016	ND<20	FALSE
GWC-4A	6/14/2017	ND<20	FALSE
GWC-4A	12/13/2017	25	FALSE
GWC-4A	6/21/2018	ND<20	FALSE
GWC-4A	12/18/2018	ND<20	FALSE
GWC-4A	6/12/2019	23	FALSE
GWC-14A	12/13/2013	24	FALSE
GWC-14A	6/11/2014	ND<20	FALSE
GWC-14A	12/10/2014	ND<20	FALSE
GWC-14A	6/24/2015	ND<20	FALSE
GWC-14A	12/10/2015	20	FALSE
GWC-14A	6/16/2016	ND<20	FALSE
GWC-14A	12/8/2016	ND<20	FALSE
GWC-14A	6/13/2017	ND<20	FALSE
GWC-14A	12/13/2017	ND<20	FALSE
GWC-14A	6/21/2018	20	FALSE
GWC-14A	12/19/2018	ND<20	FALSE
GWC-14A	6/12/2019	ND<20	FALSE
GWC-8	12/13/2013	ND<20	FALSE
GWC-8	6/12/2014	ND<20	FALSE
GWC-8	12/11/2014	ND<20	FALSE
GWC-8	6/24/2015	ND<20	FALSE
GWC-8	12/10/2015	ND<20	FALSE
GWC-8	6/16/2016	ND<20	FALSE
GWC-8	12/9/2016	26	FALSE
GWC-8	12/13/2017	ND<20	FALSE
GWC-8	6/21/2018	ND<20	FALSE
GWC-8	6/13/2019	ND<20	FALSE
GWC-8A	12/13/2013	ND<20	FALSE
GWC-8A	6/12/2014	ND<20	FALSE
GWC-8A	12/11/2014	ND<20	FALSE
GWC-8A	6/24/2015	ND<20	FALSE
GWC-8A	12/10/2015	ND<20	FALSE
GWC-8A	6/16/2016	ND<20	FALSE
GWC-8A	12/9/2016	ND<20	FALSE
GWC-8A	6/14/2017	ND<20	FALSE
GWC-8A	12/13/2017	ND<20	FALSE
GWC-8A	6/21/2018	34	FALSE
GWC-8A	12/20/2018	42	FALSE
GWC-8A	6/13/2019	ND<20	FALSE
GWC-24	6/12/2014	ND<20	FALSE
GWC-24	6/23/2015	ND<20	FALSE
GWC-24	6/14/2016	ND<20	FALSE
GWC-24	6/15/2017	ND<20	FALSE
GWC-24	6/20/2018	ND<20	FALSE
GWC-24	6/12/2019	ND<20	FALSE
GWC-16A	6/13/2014	ND<20	FALSE

GWC-16A	12/11/2014	ND<20	FALSE
GWC-16A	6/24/2015	ND<20	FALSE
GWC-16A	12/10/2015	ND<20	FALSE
GWC-16A	6/17/2016	ND<20	FALSE
GWC-16A	12/8/2016	ND<20	FALSE
GWC-16A	**6/15/2017**	**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

Non-Parametric Tolerance Interval

Parameter: Trichloroethene

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 88.1313%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
GWA-3	6/22/2015	ND<2	FALSE
GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWC-10	12/9/2013	ND<2	FALSE
GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
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-10A	12/9/2013	ND<2	FALSE
GWC-10A	6/11/2014	ND<2	FALSE
GWC-10A	12/9/2014	ND<2	FALSE
GWC-10A	6/22/2015	ND<2	FALSE
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GWC-10A	6/14/2016	ND<2	FALSE
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GWC-13	12/7/2015	ND<2	FALSE
GWC-13	6/15/2016	ND<2	FALSE
GWC-13	12/7/2016	ND<2	FALSE
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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-23	12/9/2013	ND<2	FALSE
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GWC-23A	6/22/2015	ND<2	FALSE
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GWC-23A	6/15/2016	ND<2	FALSE
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GWC-23A	6/14/2017	ND<2	FALSE
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GWC-3	12/17/2018	ND<2	FALSE
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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
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GWC-15	**12/9/2015**	**2.4**	**TRUE**
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GWC-15	**12/19/2018**	**3.7**	**TRUE**
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GWC-18	**12/18/2018**	**2.1**	**TRUE**
GWC-18	6/11/2019	ND<2	FALSE
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GWC-19R	**12/10/2014**	**2.1**	**TRUE**

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GWC-19R	6/15/2016	ND<2	FALSE
GWC-19R	12/6/2016	ND<2	FALSE
GWC-19R	6/14/2017	ND<2	FALSE
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GWC-14A	**12/10/2014**	**8**	**TRUE**
GWC-14A	**6/23/2015**	**5**	**TRUE**
GWC-14A	**12/9/2015**	**5.3**	**TRUE**
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**
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GWC-14R	**12/12/2013**	**8.7**	**TRUE**
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GWC-14R	**12/10/2014**	**8.6**	**TRUE**
GWC-14R	**6/23/2015**	**8.2**	**TRUE**
GWC-14R	**12/10/2015**	**6.7**	**TRUE**
GWC-14R	**6/15/2016**	**6.1**	**TRUE**
GWC-14R	**12/8/2016**	**5.4**	**TRUE**
GWC-14R	**6/13/2017**	**6.8**	**TRUE**
GWC-14R	**12/12/2017**	**4.8**	**TRUE**
GWC-14R	**6/20/2018**	**5.2**	**TRUE**
GWC-14R	**12/19/2018**	**4.9**	**TRUE**
GWC-14R	**6/12/2019**	**4.7**	**TRUE**
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GWC-4A	12/11/2014	ND<2	FALSE
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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-8	12/12/2013	ND<2	FALSE
GWC-8	6/11/2014	ND<2	FALSE
GWC-8	12/10/2014	ND<2	FALSE
GWC-8	6/23/2015	ND<2	FALSE

GWC-8	12/10/2015	ND<2	FALSE
GWC-8	6/15/2016	ND<2	FALSE
GWC-8	12/8/2016	ND<2	FALSE
GWC-8	12/12/2017	ND<2	FALSE
GWC-8	6/20/2018	ND<2	FALSE
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GWC-8A	6/12/2019	ND<2	FALSE
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GWC-8R	**12/10/2014**	**3.8**	**TRUE**
GWC-8R	**6/23/2015**	**2.2**	**TRUE**
GWC-8R	**12/10/2015**	**2.9**	**TRUE**
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-16A	**6/12/2014**	**6.4**	**TRUE**
GWC-16A	12/10/2014	ND<2	FALSE
GWC-16A	6/24/2015	ND<2	FALSE
GWC-16A	**12/9/2015**	**7**	**TRUE**
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

Non-Parametric Tolerance Interval

Parameter: Vinyl chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.9596%
Background measurements (n) = 24
Maximum Background Concentration = 2
Minimum Coverage = 88.3%
Average Coverage = 96%

Location	Date	Value	Significant
GWA-3	12/9/2013	ND<2	FALSE
GWA-3	6/9/2014	ND<2	FALSE
GWA-3	12/8/2014	ND<2	FALSE
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GWA-3	12/7/2015	ND<2	FALSE
GWA-3	6/13/2016	ND<2	FALSE
GWA-3	12/8/2016	ND<2	FALSE
GWA-3	6/14/2017	ND<2	FALSE
GWA-3	12/11/2017	ND<2	FALSE
GWA-3	6/18/2018	ND<2	FALSE
GWA-3	12/17/2018	ND<2	FALSE
GWA-3	6/11/2019	ND<2	FALSE
GWC-10	12/9/2013	ND<2	FALSE
GWC-10	6/11/2014	ND<2	FALSE
GWC-10	12/9/2014	ND<2	FALSE
GWC-10	6/22/2015	ND<2	FALSE
GWC-10	12/7/2015	ND<2	FALSE
GWC-10	6/14/2016	ND<2	FALSE
GWC-10	12/8/2016	ND<2	FALSE
GWC-10	6/15/2017	ND<2	FALSE
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GWC-10	6/19/2018	ND<2	FALSE
GWC-10	12/17/2018	ND<2	FALSE
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CONSULTING, INC.