401356
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From: Mary Ann Brookshire <mbrookshire@earthcon.com>
Sent: Monday, November 1, 2021 9:28 AM
To: Kuhn, Kimberly M. <kuhnkm@dhec.sc.gov>
Cc: steve.bachellor@lennoxintl.com <steve.bachellor@lennoxintl.com>; Ungerman, Betty <Betty.Ungerman@lennoxintl.com>; Carol Northern <cnorthern@earthcon.com>
Subject: Lennox - Former Ducane Site; Updated Assessment Report

Kim,

Here is a new link to the Updated Assessment Report for the former Ducane Company Site (Lennox) in Blackville, SC. Please let me know if you are able to access the document.

Former Ducane Site - Updated Report

Thanks,
Mary Ann

Mary Ann Brookshire, CHMM
Senior Scientist
EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Direct Dial: 678-569-2880
Cell: 404-317-7748
Office: 770-973-2100 x2880
Fax: 770-973-7395
Email: mbrookshire@earthcon.com
www.earthcon.com

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Member of WSP

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P. 770 973 2100
F: 770-973-7395
www.earthcon.com

October 28, 2021

Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Subject: **Updated Assessment Report**
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356
EarthCon Project No. 02.20160378.21

Dear Ms. Kuhn:

On behalf of our client Lennox International Inc. (Lennox), EarthCon Consultants, Inc. (EarthCon) is submitting the enclosed Updated Assessment Report for the former Ducane Company Site located in Blackville, Barnwell County, South Carolina (BLWM File # 401356). This report is being submitted in accordance with the requirements of Voluntary Cleanup Contract 16-5848-RP executed on November 17, 2016. Due to the visual nature of Plume Analytics®, we would like to arrange a meeting with you to present the results of the Plume Analytics® study prior to your final review of the enclosed report.

Please free to call us at (770) 973-2100 if you have any questions or if we can provide any additional information.

Respectfully submitted,
EARTHCON CONSULTANTS, INC.

Carol D. Northern
Project Principal

Timothy O. Goist, P.G. (SC#1121) 10.28.21
Principal Geologist

Cc: Ms. Betty Ungerman, Environmental Affairs Director, Lennox International, Inc.

UPDATED ASSESSMENT REPORT

FORMER DUCANE COMPANY SITE
118 WEST MAIN STREET
BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE #401356

PREPARED FOR:

LENNOX INTERNATIONAL, INC.
2140 Lake Park Boulevard
Richardson, Texas 75080

PREPARED BY:

EARTHCON CONSULTANTS, INC, A MEMBER OF WSP USA.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062
770-973-2100

EarthCon Project No. 02.20160378.21

October 2021

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EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com
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EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062
P: 770-973-2100
F: 770-973-7395
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1.0 INTRODUCTION

The former Ducane Company Site (the Site) is located at 118 West Main Street in Blackville, South Carolina (Figure 1). The Site consists of approximately 105 acres with about 19 acres developed with a production building and a research and development building. The Site is identified by Barnwell County as consisting of three parcels. One parcel is owned by the Barnwell County Economic Development Corporation. The other two parcels, which include the Site buildings, were owned by NK Newlook, Inc. and were formerly used for production of wooden commercial display cabinets. These parcels are currently owned by the Barnwell County Economic Development Corporation and are used for the production of wooden storage buildings and paper recycling.

Assessment and remediation activities have been ongoing at the Site since 1999. Constituents detected in Site soils and groundwater included chlorinated volatile organic compounds (CVOCs) and aromatic hydrocarbons. Approximately nine in-situ chemical oxidation/bio-remediation injection events were performed at the Site from July 2003 to April 2008.

On November 17, 2016, Lennox International (Lennox) entered into Voluntary Cleanup Contract 16-5848-RP (the Contract) with the South Carolina Department of Health and Environmental Control (DHEC). In accordance with the Contract requirements, comprehensive groundwater sampling of Site wells was conducted from January 30 to February 2, 2017. The groundwater samples were analyzed for volatile organic compounds (VOCs) to update the status of the known plume. Groundwater samples collected from monitoring wells MW-1, MW-3 and background well MW-6R were also analyzed for Target Analyte List (TAL) metals. The results of the comprehensive groundwater sampling event were presented in an Assessment Report dated March 24, 2017. Based on the sampling event results and the subsequent Plume Analytics® study, the Assessment Report proposed conducting semi-annual groundwater sampling for a period of two years (four total sampling events). The Assessment Report also recommended minor repairs to monitoring wells and the installation of one additional monitoring well (MW-16) north of MW-3 to address a data gap identified during the Plume Analytics® study. DHEC approved the Assessment report in letters dated May 8 and June 1, 2017.

The four semi-annual groundwater sampling events were conducted at the Site in October 2017, March 2018, October 2018 and March 2019. Groundwater sampling was conducted as described in the March 2017 Assessment Report and the Work Plan for Monitoring Well Installation dated

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

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F: 770-973-7395
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June 29, 2017 and approved by DHEC on July 17, 2017. The results for the first three semi-annual groundwater sampling events were provided to DHEC in Semi-Annual Monitoring Reports dated January 30, 2018, July 23, 2018 and January 24, 2019. The results of the fourth semi-annual groundwater sampling event conducted in March 2019 along with the updated Plume Analytics® study were provided to DHEC in the Updated Assessment Report dated July 26, 2019.

A meeting was held on August 28, 2019 to discuss future Site activities. As a result of that meeting, Lennox agreed to install one additional monitoring well (MW-17), redevelop monitoring well MW-4D, conduct one additional year of semi-annual groundwater sampling and update the Plume Analytics® study with the additional groundwater analytical results. The Updated Assessment Report and the additional Site activities were approved by DHEC in a letter dated August 29, 2019.

The two additional semi-annual groundwater sampling events were conducted in October 2019 and April 2020. Groundwater sampling was conducted as described in the March 2017 Assessment Report and the Work Plan for Monitoring Well Installation dated June 29, 2017 and approved by DHEC on July 17, 2017. The results of the first additional semi-annual sampling event, conducted in October 2019, were provided to DHEC in the Semi-Annual Monitoring Report dated January 22, 2020. The results of the second semi-annual sampling event, conducted in April 2020, were provided to DHEC in the Updated Assessment Report dated September 10, 2020 and discussed during a September 25, 2020 meeting. Recommendations for future activities were discussed during the September 25, 2020 meeting and a Scope of Work was presented to and discussed with DHEC in a meeting held on December 10, 2020. The Scope of Work was developed to provide additional delineation in the vicinity of monitoring well MW-3. A Work Plan for Additional Assessment Activities – 2021 was submitted on April 26, 2021 and approved by DHEC in a letter dated April 29, 2021.

This Updated Assessment Report for the Former Ducane Company Site (BLWM File #401356) is being submitted to satisfy the requirements of Voluntary Cleanup Contract 16-5848-RP executed on November 17, 2016. This report presents the results of the 2021 additional assessment activities in the vicinity of MW-3 and provides an updated Plume Analytics® study.

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1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
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2.0 ADDITIONAL SOIL AND GROUNDWATER DELINEATION

Twenty (20) borings were advanced at the site from June 22 to June 25, 2021, to provide additional delineation of soil and groundwater at the facility (Figure 2). Fourteen (14) of the borings (DP-1 through DP-14) were advanced for the collection of soil and groundwater samples. Six soil borings (SB-101, SB-102, SB-103, SB-105, SB-106, and SB-108) were advanced to the water table for the collection of soil samples only. Eight soil borings were originally planned; however, borings SB-104 and SB-107 were not drilled due to difficulty gaining access to a heavily wooded area of the property. Appendix A provides a summary of the field procedures for the additional soil and groundwater delineation. Appendix B provides soil boring logs.

To evaluate potential in-situ remedial technologies, one soil and one groundwater sample were collected from a presumed unimpacted area of the Site (near MW-15), and another soil and groundwater sample were collected from an impacted area of the Site (near MW-3). The samples were analyzed for natural oxidant demand (NOD) by PeroxyChem laboratory.

2.1 Site Lithology

Lithologic information collected during the previous assessment activities (as shown on well boring logs) and the June 2021 sampling activities were used to develop cross sections to illustrate the subsurface soils beneath the Site. Figure 3 shows the orientation of the cross sections and Figures 4 to 7 present cross sections A-A', B-B', C-C', and D-D', respectively. As shown on the cross sections, the Site is underlain by discontinuous zones of interbedded clayey sand, silty sand, silt, sand, and clay layers, possibly of marine and intersected fluvial deposition. The lithology appears to become increasingly sandy with depth.

Approximately 12 feet of sandy clay underlay the Site in the vicinity of monitoring wells MW-3/MW-3D. This zone is underlain by an approximately five foot clay layer, apparently making the uppermost saturated zone a perched water table in the sandy clay. Well MW-3 is screened in the sandy clay, just above the five-foot clay layer. Well MW-3D is screened in a saturated sand/sandy silt layer and is separated from well MW-3 by the five foot clay layer. However, the clay layer is not contiguous across the site.

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
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2.2 Soil Analytical Results

Soil samples were analyzed for VOCs using USEPA Method 8260D. A summary of the detected VOC analytical results for soil samples is provided in Table 1. The laboratory analytical reports from Pace Analytical Services, LLC (Pace) (DHEC Certification No. 32010001) are provided in Appendix C. Soil samples were also collected for NOD testing by PeroxyChem. Results are provided in Appendix D and will be used in the future for assessing remedial alternatives, as necessary.

The laboratory data was validated in accordance with the *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2008) and *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2010). A copy of the validation summary is provided in Appendix C.

The analytical results of the soil samples indicate the presence of the following constituents:

- Acetone
- 2-Butanone
- 1,1-Dichloroethene
- Cis-1,2-dichloroethene
- Ethylbenzene
- Isopropylbenzene
- Methylacetate
- Methylcyclohexane
- Tetrachloroethene
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride
- Xylenes

2.2.1 Aromatic Hydrocarbons

Aromatic hydrocarbons (ethylbenzene, isopropylbenzene and xylenes) were detected in soil samples from boring DP-5 (1 to 3 feet bgs), DP-7 (1 to 3 feet bgs), SB-103 (1 to 3 feet bgs), and SB-108 (1 to 3 feet bgs) as shown on Figure 8. A strong fuel odor was noted at boring DP-5 and a solvent odor was noted at boring SB-103. The highest detections of aromatic hydrocarbons were from boring SB-103, where ethylbenzene was detected at 3,300 micrograms per kilogram µg/kg and xylenes were detected at 11,000 µg/kg. Boring SB-103 is located south of the former drum storage area and north of monitoring well MW-3. Relative to the other sampling locations, higher concentrations of isopropylbenzene, ethylbenzene and xylenes were also observed in

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
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boring DP-5, which is located in the former solvent storage area south of monitoring well MW-3. A release of Naphtha-100 occurred at the former solvent storage area on August 27, 1999, which is described in the Phase III Environmental Site Assessment (ERM, 1999). Concentrations of the aromatic hydrocarbons were below EPA Industrial Soil Regional Screening Levels (RSLs) as indicated on Table 1.

2.2.2 Chlorinated VOCs

CVOCs (cis-1,2-dichloroethene, tetrachloroethene, 1,1,2-trichloroethane, trichloroethene, and/or vinyl chloride) were detected in borings DP-2 (6 to 7 feet bgs), DP-10 (10 to 11 feet bgs), DP-11 (10 to 11 feet bgs), DP-12 (4 to 5 and 9 to 10 feet bgs), DP-13 (19 to 20 feet bgs), and SB-102 (1 to 1.5 feet bgs) as shown on Figure 9. The highest detections of chlorinated compounds were observed at locations DP-11 and DP-12, located at the northeast corner of the building in the vicinity of the former maintenance shop (i.e., Old Maintenance Area). The concentration of chlorinated compounds in DP-12 was highest in the soil sample from 4 to 5-feet bgs and decreased with depth. Both soil samples from DP-12 were collected from a highly compacted clay. The same chlorinated compounds were detected in the soil sample collected at 19 to 20 feet bgs in DP-13, which is located approximately 130 feet west of DP-12. The chlorinated compounds in DP-11, located approximately 180 feet east of DP-12, were detected at a depth of 10 to 11 feet bgs, but were not detected at depths of 20 to 21 feet bgs. Cis-1,2-dichloroethene was also detected in boring DP-2 at a depth of 6 to 7 feet bgs, however, no chlorinated compounds were detected in soil samples obtained at depths of 10 to 11 feet bgs and 19-20 feet bgs. This boring was advanced near a storm water drain that collects surface water from the eastern parking area and appears to collect drainage from an underground pipe that runs from the building to the drain. Concentrations of the chlorinated compounds were below EPA Industrial Soil RSLs as indicated on Table 1.

2.2.3 Other Constituents

Acetone, 2-butanone, methylacetate and methylcyclohexane were also detected in the soil samples at concentrations below industrial RSLs. Acetone was detected in many of the soil samples; however, acetone is a common field and laboratory contaminant and is frequently found in soil samples preserved with sodium bisulfate. In addition, 2-butanone was detected in six samples at concentrations below the reporting limit. Methylacetate and methylcyclohexane were

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
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detected only once at concentrations below the reporting limit. Due to the low concentration and frequency of 2-butanone, methylacetate and methylcyclohexane, they are not considered further.

2.3 Groundwater Analytical Results

Analytical results of the delineation groundwater samples are provided in Table 2. These samples were collected to further delineate the impacted groundwater in the vicinity of monitoring well MW-3. The laboratory analytical reports from Pace are provided in Appendix C.

The laboratory data was validated in accordance with the *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2008) and *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2010). A copy of the validation summary is provided in Appendix C.

The groundwater analytical results of the delineation borings are evaluated with results from monitoring wells MW-3 and MW-3D. The analytical results of the groundwater samples indicate the presence of the following constituents:

- Acetone
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- Cis-1,2-dichloroethene
- Trans-1,2-dichloroethene
- Ethylbenzene
- Isopropylbenzene
- Methylene chloride
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride
- Xylenes
- 1,4-Dioxane

2.3.1 Aromatic Hydrocarbons

Results of the delineation groundwater samples indicate that the aromatic hydrocarbons (ethylbenzene, toluene, isopropylbenzene, and/or xylenes) are sporadic and were detected south of monitoring well MW-3 in boring DP-5 (located in the solvent storage area) and boring DP-2 (located near the stormwater drain that collects surface water from the eastern parking area and

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
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appears to collect drainage from an underground pipe that runs from the building) as shown on Figure 10. Aromatic hydrocarbons were also detected in boring DP-7 west of MW-3 and in boring DP-12. Boring DP-12 is located northwest of the former maintenance shop in the building. The highest concentrations of aromatic hydrocarbons from a boring were observed at DP-5, where isopropylbenzene was detected at 690 micrograms per liter (µg/L). Isopropylbenzene is a component of Naphtha-100, the solvent released in 1999 (ERM, 1999). The only aromatic hydrocarbon concentration to exceed an MCL or tap water RSL is the isopropylbenzene concentration in sample DP-5, which exceeded the tap water RSL of 45 µg/L.

2.3.2 Chlorinated VOCs

CVOCs were detected in most of the direct-push sampling locations on the eastern side of the building and proximal to monitoring well MW-3 but at much lower concentrations than the CVOCs detected in MW-3 as shown on Figure 11. These lower concentration CVOCs were detected in samples obtained from DP-1, DP-2, DP-4, DP-5, DP-7, DP-9 and DP-10. Higher concentrations of CVOCs were observed in boring DP-12 located to the north of the building. Additionally, the groundwater sample from boring DP-12 contained parent compounds (trichloroethene and tetrachloroethene), while the groundwater sample from monitoring well MW-3 and from the direct-push borings on the eastern side of the building and proximal to MW-3 contained primarily breakdown products (cis-1,2-dichloroethene, trans-,1,2-dichorooethene, 1,1-dichloroethene, and vinyl chloride). This could indicate separate releases or be the result of the two in-situ remediation events conducted in 2001 (Fenton's Reagent) and 2008 (Anaerobic BioChem Plus) in the vicinity of MW-3 (Allied Air, 2011). As indicated on Table 2, concentrations of trichloroethene, tetrachloroethene, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride exceeded the MCL and/or EPA tap water RSL at DP-12 whereas the sample results from DP-10 exceeded the MCL for 1,1-dichloroethene and vinyl chloride and the sample results from DP-7 and DP-9 exceeded the MCL just for vinyl chloride.

2.3.3 Other Constituents

In addition to the aromatic hydrocarbons and CVOCs, 1,4-dioxane was detected at locations DP-5, DP-6, DP-7, DP-9, and DP-10 at concentrations that exceed the EPA tap water RSL. Each of these samples was collected in the vicinity of the drum storage area and the former drum/solvent storage area.

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com
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Acetone, chloroform, and methylene chloride were also detected in the groundwater samples at concentrations below their respective EPA tap water RSL. Acetone was detected at locations DP-6 and DP-9 at concentrations below the reporting limit. Chloroform was detected in several samples at relatively low concentrations (1.7 µg/L and lower). Note the MCLs for total trihalomethanes, including chloroform, is 80 µg/L while the RSL is 0.22 µg/L. The chloroform detections may be due to potable water lines in the vicinity Methylene chloride was detected twice at 2.4 µg/L in DP-12. Methylene chloride is a common laboratory contaminant. Due to the relatively low concentration of acetone, chloroform, and methylene chloride, they will not be considered further in the assessment.

2.4 Investigation-Derived Waste

Investigation derived waste (IDW) in the form of soil cuttings was generated during advancement of the soil borings. IDW was containerized in 55-gallon drums, properly labeled, and properly disposed offsite.

3.0 VERTICAL EVALUATION - WELLS MW-1D AND MW-4D

To evaluate the vertical distribution of contaminants in wells MW-1D and MW-4D, dual membrane passive diffusion samplers (PDS) were installed on June 1, 2021, in well MW-1D at depths of 16.2 and 36.2 feet below top of casing (bTOC) and in well MW-4D at depths of 16, 36 and 56 feet bTOC. The PDS could not be lowered to the deeper interval (80 feet) in MW-4D as originally planned due to refusal. The fact that the PDS sampler could not be lowered to 80 feet as proposed indicates the possibility of a problem with well construction. Additionally, a camera survey conducted on April 22, 2020, indicated that there were potential breaches in the well approximately 20 and 30 feet below the top of the casing.

Groundwater samples were collected from the PDS on June 21, 2021 and submitted for laboratory analysis of VOCs and 1,4-dioxane. Table 3 provides results of the PDS sampling and Table 2 provides results of the low-flow groundwater sample from these monitoring wells.

Results of the PDS groundwater samples from monitoring well MW-1D show relatively low concentrations of tetrachloroethene (3.1 and 3.5 µg/L) and trichloroethene (1.3 and 1.4 µg/L) in the 16.2 feet and 36.2 feet samples compared to the concentrations from the screened interval. The concentrations of tetrachloroethene and trichloroethene in the screened interval (48 to 53 feet bgs) are 62 µg/L and 91 µg/L, respectively. The higher concentrations in the groundwater samples

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

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F: 770-973-7395
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collected within the screened interval indicate that the constituents detected are coming from the screened zone and not from a breach above the screened interval.

Tetrachloroethene concentrations in the PDS samples obtained from MW-4D at 16, 36, and 56 feet are 2.1, 4.7 and 4.0 µg/L, respectively. The tetrachloroethene concentration in the screened interval from 72 to 82 feet bgs is 19 µg/L. As mentioned above, there appears to be integrity issues with the construction of this well. The results from the PDS sampling are inconclusive as to whether CVOCs are coming into the well at the screened interval, at some potential breech(es) along the casing, or a combination of both.

4.0 COMPREHENSIVE GROUNDWATER SAMPLING

4.1 Field Activities

A comprehensive groundwater sampling event was conducted at the Site from June 21 to June 25, 2021. There are 21 groundwater monitoring wells located at the Site. Prior to sampling, depth to groundwater measurements were collected at all accessible wells. The locations of the monitoring wells are shown on Figure 2.

Static water levels were measured on June 21, 2021 from 18 Site groundwater monitoring wells. Permission to access well MW-9, which is located on the adjacent private property, was not granted. Monitoring wells MW-12 and MW-13 could not be located. The monitoring well construction details are presented in Table 4 and the water level measurements are presented in Table 5.

Groundwater samples were collected from 18 of the 21 wells using low flow purge and sampling techniques. Wells MW-9, MW-12 and MW-13 could not be sampled for the reasons stated above. Prior to sampling, each well was purged, and the following field parameters were measured: temperature, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), ferrous iron and turbidity. A description of the field procedures is provided in Appendix A. Field parameters measured during the sampling event are summarized in Table 6 and the field sampling forms are provided in Appendix E.

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

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F: 770-973-7395
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4.2 Groundwater Flow

The water level measurements collected on June 21, 2021 (Table 5) were used to develop a potentiometric surface map for the Site, which is included as Figure 12. As shown on Figure 12, groundwater elevation data indicate groundwater flow is to the north-northwest which is consistent with groundwater flow measured in previous sampling events. A summary of historical groundwater elevations is provided in Appendix F.

4.3 Groundwater Analytical Results

Groundwater samples were analyzed for VOCs using EPA Method 8260D and 1,4-dioxane using EPA Method 8260D Selective Ion Monitoring (SIM). The groundwater samples were also analyzed for the monitored natural attenuation (MNA) parameters nitrate, sulfate, sulfide, chloride, alkalinity, total organic carbon (TOC) and dissolved gases (ethane, ethene, methane and propane).

A summary of the VOC analyses is provided in Table 2 and the MNA parameter results are summarized in Table 7. The laboratory analytical reports from Pace are provided in Appendix C.

The laboratory data was validated in accordance with the *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2008) and *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2010). A copy of the validation summary is provided in Appendix C. A summary of historical groundwater analytical results is provided in Appendix G. The June 2021 data is substantially consistent with historical data.

4.4 IDW Management

IDW in the form of purge water was generated during groundwater sampling activities. IDW was containerized in 55-gallon drums, properly labeled, and properly disposed offsite.

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
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5.0 GROUNDWATER PLUME ANALYTICS® METHODOLOGY

A Groundwater Plume Analytics® evaluation, including a Ricker Method® Plume Stability Analysis, was conducted for the Upper Shallow aquifer at the Site using groundwater analytical data provided by Environmental Resources Management (ERM) through 2014 and analytical data collected by EarthCon through June 2021. The Groundwater Plume Analytics® evaluation was conducted for the following constituents of concern (COC):

Chloroethenes

- Tetrachloroethene (PCE);
- Trichloroethene (TCE);
- cis-1,2-Dichloroethene (cis-1,2-DCE);
- trans-1,2-Dichloroethene (trans-1,2-DCE);
- 1,1-Dichloroethene (1,1-DCE);
- Vinyl chloride; and
- Total chloroethenes (molar basis)

Chloroethanes

- 1,1,2-trichloroethane (1,1,2-TCA)
- 1,1,1-trichloroethane (1,1,1-TCA);
- 1,2-dichloroethane (1,2-DCA);
- 1,1-dichloroethane (1,1-DCA); and
- Total chloroethanes (molar basis)

Aromatic Hydrocarbons

- Toluene
- Ethylbenzene
- Xylenes

This Groundwater Plume Analytics® evaluation included the following elements:

- Ricker Method® Plume Stability Analysis;
- Total molar trend and molar fraction analysis for chloroethenes and chloroethanes;
- Ricker Method® Spatial Change Indicator™;
- Geochemical MNA isopleths; and
- Groundwater elevation trend evaluation.

The following subsections present the methodologies of the aforementioned elements of the Groundwater Plume Analytics® services. Results of the Groundwater Plume Analytics® evaluation are presented in Section 6.0.

5.1 Ricker Method® Plume Stability Analysis

The Ricker Method® Plume Stability analysis was conducted using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. Note that the term “mass indicator” does not necessarily represent the entire mass in the subsurface but

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com
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rather an expression of it based on a fixed assumption of aquifer thickness and porosity to serve as a way of combining plume area and average concentration into one meaningful metric. Calculation of the actual constituent subsurface mass is often a very complicated exercise, and usually more data inputs are needed than are available from typical delineation and/or remediation well information. Because the plume mass value is not necessarily a measure of actual contaminant mass, the term "mass indicator" is used to describe this plume characteristic. Since the main purpose of the plume stability analysis is to observe relative changes in plume characteristics between sampling events, applying constants (i.e., porosity and aquifer thickness) to the mass calculation has no bearing on the usefulness of the output of the analysis (i.e., relative rate of change in plume mass).

To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or is possibly expanding. Further details concerning trend analysis and determination of a trend conclusion are provided in Section 5.1.3.

5.1.1 Data Assessment and Input File Development

Data used in the Ricker Method® plume stability analysis for the constituents listed above for the Upper Shallow aquifer at the Site are tabulated in Appendix H. Groundwater analytical data were available from 1999 through 2021.

Not all wells were sampled during each sampling event, and gaps were filled by either interpolating between those events with available data or by extrapolating values using available data from previous or subsequent events. Other scientific and/or statistical assumptions and adjustments to the data, consistent with the Ricker Method®, were necessary to complete the analysis. These adjustments are identified in the Ricker Method® input data set summarized in Appendix H. The assumptions and adjustments used in the analysis include the following:

- In most cases non-detect concentrations were evaluated with an assigned concentration value of the stated detection limit. Also, in cases where non-detect results with elevated detection limits were encountered, professional judgment was used to assign a concentration value. For instances in this case with detectable results or non-detect results with a lower detection limit before and after, a value was assigned by interpolation, using the events before and after. For instances with no detectable result or non-detect

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result with a lower detection limit following the event in question, the last known detectable result was used. These instances are indicated by green shading in Appendix H. In every case the assigned value was based on actual results (detectable value or non-detect at a lower detection limit). Assigned values for non-detect concentrations are provided in Appendix H.

- For sampling events where a particular monitoring well was not sampled, but analytical data prior to and subsequent to are available, the events were assigned values by linearly interpolating between the closest prior and subsequent sampling event. Instances where these values are assigned are indicated by orange shading in Appendix H.

5.1.2 Groundwater Plume Map Development

As part of the Ricker Method® plume stability analysis, constituent concentration isopleth maps, or plume maps, were developed for the groundwater monitoring events that occurred September 1999 through June 2021 for the aforementioned constituents in the upper shallow aquifer. The lower or deep aquifer (as designated by the "D" wells) was evaluated on a well by well basis due to the limited number of wells in this aquifer zone. Plume maps for each compound were delineated to the base contour values listed below.

Constituent	Base Contour (µg/L)
PCE	5
TCE	5
1,1-DCE	7
cis-1,2-DCE	5
trans-1,2-DCE	5
vinyl chloride	2
1,1,2-TCA	5
1,1,1-TCA	5
1,2-DCA	5
1,1-DCA	5
ethylbenzene	5
toluene	5
xylenes	5

Total chloroethene plume maps were developed by converting the individual contours of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE and vinyl chloride to a molar concentration basis, at or above their respective base contours, and summing them to calculate a total molar plume for

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each event. Total chloroethane plume maps were developed in the same manner using the contours for 1,1,2-TCA, 1,1,1-TCA, 1,2-DCA and 1,1-DCA.

The area of the constituent-specific plume for each sampling event was calculated using the mathematical features of the contouring software to develop the isopleth maps (i.e., Surfer® 17.1.288, by Golden Software, Inc.) The kriging gridding method was used with the default linear variogram to develop the isopleth maps. Surfer® was also used for the computation of the average concentration of each plume as described in Ricker (2008). The plume area and average concentrations were then used to calculate the plume mass indicator for each event. To calculate the plume mass indicator, a porosity of 30% and an aquifer thickness of 10 feet were used based on the lengths of the screens for most of the wells installed in the shallow aquifer.

Concentration isopleth maps for each constituent are included in Appendix I. As discussed above, plume stability characteristics were calculated for each of the sampling events included in the analysis. The plume stability characteristics of area, average concentration, and mass indicator, as well as the location of the center of mass, are also provided on each isopleth map.

5.1.3 Statistical Methodology

To evaluate the stability of each constituent plume, temporal trends of the characteristics were evaluated statistically. The area, average concentration, and mass indicator for each event were plotted to observe changes in each parameter from event to event. The results of the plume stability analyses for each constituent are discussed in Section 6.0.

The temporal trends in the plume characteristic values were statistically evaluated using both linear regression techniques and the Mann-Kendall Test. Linear regression analyses were conducted using the regression analysis utility in Microsoft Excel, version 1808 (Office 365). The Mann-Kendall Tests were also conducted using procedures described in Gilbert (1987). Linear regression is a parametric statistical procedure that is typically used for analyzing trends in data over time. The Mann-Kendall Test is a non-parametric statistical test; therefore, it is not dependent upon the magnitude of the data, assumptions of distribution, or regularly spaced sampling events.

The Mann-Kendall Test is used to assess whether a data set exhibits an increasing or decreasing trend at a predetermined level of significance (α). The test requires the calculation of a statistic

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"S" which is the difference between the number of paired differences that are positive, minus the number that are negative. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the data. The null hypothesis, H_0, for the Mann-Kendall Test is that there is no temporal trend in the data. The alternative hypothesis, H_A, is that of either an upward trend or a downward trend.

If the null hypothesis is not rejected (i.e., no trend could be established statistically), it is expected that the plume is stable. However, a stable plume may not in fact be evident because the statistical test does not consider magnitude or variation in the data. For example, a data set can exhibit a large amount of scatter, yet the test could conclude that the plume is stable. A methodology to counter the problem of scatter in the data involves comparing the calculated S statistic, a calculated confidence factor (1-α), and the coefficient of variation for the data set. The S statistic indicates the direction of the trend, the confidence factor shows how strong the trend is, and the coefficient of variation indicates the degree of scatter in the data.

When evaluating trends using linear regression, trends may be obscured by scatter in the data. This condition is typically indicated by a low coefficient of determination (R^2) value. Even with low R^2 values (i.e., high degree of scatter) a confidence interval can still be constructed on the slope of the regression line. As described in AFCEE (2006), assuming the sign (i.e., positive or negative) of the estimated log-slope is correct, a level of confidence that the slope is not zero can be easily determined. The overall trend in the data may thus still be determined, where low levels of confidence correspond to stable or indeterminate trends and higher levels of confidence (e.g., > 90%) indicate the stronger likelihood of a trend.

For the plume stability analysis, significant trends are concluded when the calculated confidence factor is greater than 90%. If the confidence factor is less than 90%, the plume is considered stable or indeterminate (i.e., "no trend").

In many cases the statistical results for both linear regression and the Mann-Kendall Test agree with each other. In the case where two different results are obtained (e.g., one stable trend and one decreasing trend), visual analysis and professional judgment are used to determine the overall trend result.

Trend analysis results for the respective constituent plume area, average concentration, and mass indicator are discussed for each constituent in Section 6.0.

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5.1.4 Plume Center of Mass Evaluation

In addition to temporal trend analyses of plume characteristics, the center of plume mass (COM) was calculated. Evaluation of COM movement should be considered in conjunction with the other plume characteristics to assess the overall stability of a plume. For example, a stable or decreasing plume may actually show migration of the COM in the downgradient direction in instances when focused remediation occurred in a source area of a Site. In this case, this downgradient shift is due to the rapid loss of mass in the upgradient portion of the plume, as opposed to a gradual migration resulting from advective transport.

The plume COM is depicted on each constituent plume map included in Appendix I. For total chloroethenes and total chloroethanes, the COM data is plotted on a Site map, with each COM location (representing a discrete sampling event) color coded according to event date, to enable visual assessment of COM location through time. Additionally, each COM movement is represented by a vector that indicates the direction and distance of COM movement from one sampling event to the next. The COM vectors are then plotted together with each vector tail anchored at a common point to show variability in COM movement (similar to a wind rose diagram).

5.2 Total Molar Plume Trend and Molar Fraction Analysis

In addition to the metrics described above, the CVOC groundwater data was also evaluated on a molar basis for both total chloroethenes and total chloroethanes. To evaluate the CVOC plumes on a molar basis, the total moles of the plume as well as the molar fraction of each constituent were calculated.

It is known that during reductive dechlorination, a parent compound loses a chlorine atom and converts to a daughter compound (e.g., TCE to DCE). Because of the extra chlorine atom, the parent compound, on a weight basis, weighs more than the daughter compound. However, in this conversion from parent to daughter example, one molecule of TCE produces one molecule of DCE and are therefore equal on a molar basis. In our analysis, the total moles only decreases once the parent-daughter compounds have been converted to ethene in the case of chloroethenes and ethane in the case of chloroethanes, and/or have been mineralized to benign end products (i.e., carbon dioxide, water, and chloride ions). Therefore, a decreasing trend in

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total moles provides evidence of complete attenuation of CVOC compounds. Conversely, an increasing trend in total moles might indicate potential new or episodic releases within a plume.

Using a molar-based approach, we can also evaluate the molar fractions of individual parent-daughter compounds. As parent compounds degrade to daughter compounds, the molar fraction of the parent compounds decreases while the fraction of daughter compounds increases. Therefore, observing the molar fractions of the individual constituents along with the trend in total moles can provide further insight into various attenuation processes that may be occurring on the Site. For example, a decreasing trend in total moles with an increasing fraction of a daughter compound (i.e., cis-1,2-DCE) may indicate evidence of biological reductive dechlorination. Whereas a decreasing trend in total moles with individual constituent fractions that remain relatively constant may indicate the occurrence of non-selective destructive processes such as abiotic chemical reduction, anthropogenic recovery, or other non-biological processes.

5.3 Ricker Method® Spatial Change Indicator™ Methodology

The Ricker Method® Spatial Change Indicator™ evaluation (US Pat. No. 10,400,583) shows relative changes in the plume over time. For this analysis, each plume map in a particular series is compared to the first plume map in the series by subtracting from a selected reference date to create a new isopleth map that shows areas of the plume that decreased in concentration (indicated by blue shading), increased in concentration (indicated by red shading), or did not change (indicated by clear or no shading). The visual aspect of this analysis allows the viewer to observe patterns of plume behavior over time.

This analysis also has a quantitative component. Each Ricker Method® Spatial Change Indicator™ map also includes the percent change (increase or decrease) of the plume between each event and the baseline event in terms of area, average concentration, and mass indicator as calculated using Ricker Method® procedures. Additionally, for areas that increased or decreased in mass indicator, representative magnitudes of mass increase (red shaded areas) and mass decrease (blue shaded areas) are included on each map. A Spatial Change Indicator™ analysis for total chloroethenes and total chloroethanes is included in Appendix I.

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6.0 GROUNDWATER PLUME ANALYTICS® RESULTS

One of the primary benefits of the Groundwater Plume Analytics® process is the conversion of data into graphical and video outputs that make data more understandable. The following is provided as a textual summary of the visual outputs. The full graphical displays and analyses, including plume map videos, COM evaluation maps, molar trend and molar fraction evaluations, and the Spatial Change Indicator™ results are included in Appendix I.

A Ricker Method® Plume Stability Analysis was conducted for the Site using groundwater data for each of the constituents from 1999 to 2021. Throughout Site history, numerous remedial efforts and groundwater monitoring well installations were performed. April 2008 is a significant date because it marked the end of anthropogenic remedial activities for the Site. Therefore, statistical trends were performed on the data from September 2008 through June 2021. September 2008 was selected as the start date to evaluate plume characteristics since the cessation of anthropogenic remedial activities. Statistical trends were also performed on the data from February 2017 through June 2021. This date range was selected to provide insight into more recent plume behavior. Note that trends are not provided for 1,2-DCA for the September 2008 through June 2021 timeframe and 1,1,2-TCA, and 1,1,1-TCA for the February 2017 through June 2021 timeframe due to the limited number of detected results.

Because the early well network consisted of only a few wells, the analysis was conducted inside a prescribed “window” or analytics boundary to provide a consistent view of plume behavior over time. This plume window is defined by the lateral extents of the current monitoring well network and the plume contours were truncated at the boundary of the window. As mentioned above, the full graphical displays including plume maps, plume-stability-metric charts with trends, Spatial Change Indicators™ and COM figures are available in Appendix I. The results are summarized below.

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The following table summarizes the plume stability trends for area, average concentration and mass indicator from September 2008 through June 2021.

Ricker Method® Plume Stability Results (September 2008 – June 2021)

Constituent	Area	Average Concentration	Mass Indicator
PCE	Stable	Decreasing	Decreasing
TCE	Increasing	Decreasing	Decreasing
Cis-1,2-DCE	Decreasing	Decreasing	Decreasing
Trans-1,2-DCE	Decreasing	Decreasing	Decreasing
1,1-DCE	Decreasing	Decreasing	Decreasing
Vinyl Chloride	Decreasing	Decreasing	Decreasing
Total Chloroethenes	Decreasing	Decreasing	Decreasing
1,1,2-TCA	Decreasing	Decreasing	Decreasing
1,1,1-TCA	Decreasing	Decreasing	Decreasing
1,2-DCA	NA	NA	NA
1,1-DCA	Decreasing	Decreasing	Decreasing
Total Chloroethanes	Decreasing	Decreasing	Decreasing
Toluene	Decreasing	Decreasing	Decreasing
Ethylbenzene	Decreasing	Decreasing	Decreasing
Xylenes	Decreasing	Decreasing	Decreasing

The following table summarizes the plume stability trends for area, average concentration and mass indicator from February 2017 through June 2021.

Ricker Method® Plume Stability Results (February 2017– June 2021)

Constituent	Area	Average Concentration	Mass Indicator
PCE	Stable*	Stable	Stable
TCE	Stable	Stable	Stable
Cis-1,2-DCE	Stable	Stable*	Stable
Trans-1,2-DCE	Stable	Stable	Stable
1,1-DCE	Stable	Stable	Stable
Vinyl Chloride	Stable	Stable	Stable
Total Chloroethenes	Stable	Stable*	Stable*
1,1,2-TCA	NA	NA	NA
1,1,1-TCA	NA	NA	NA
1,2-DCA	Increasing*	Increasing	Increasing
1,1-DCA	Stable	Stable	Stable
Total Chloroethanes	Stable	Stable*	Stable
Toluene	Stable	Stable**	Stable
Ethylbenzene	Stable*	Increasing	Increasing
Xylenes	Stable*	Increasing	Increasing

Note: * indicates Mann-Kendall trend is increasing or stable.

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** indicates Regression trend is increasing. However, based on professional judgement the overall trend conclusions are presented above.

The results summarized above indicate that the chloroethene, chloroethane, and aromatic hydrocarbon (toluene, ethylbenzene, and xylenes) plumes are all decreasing since September 2008.

Since February 2017, except for 1,2-DCA, ethylbenzene, and xylenes which are increasing, the other constituent plumes are stable (i.e., no trend). Additional observations of each of these plumes are discussed further below.

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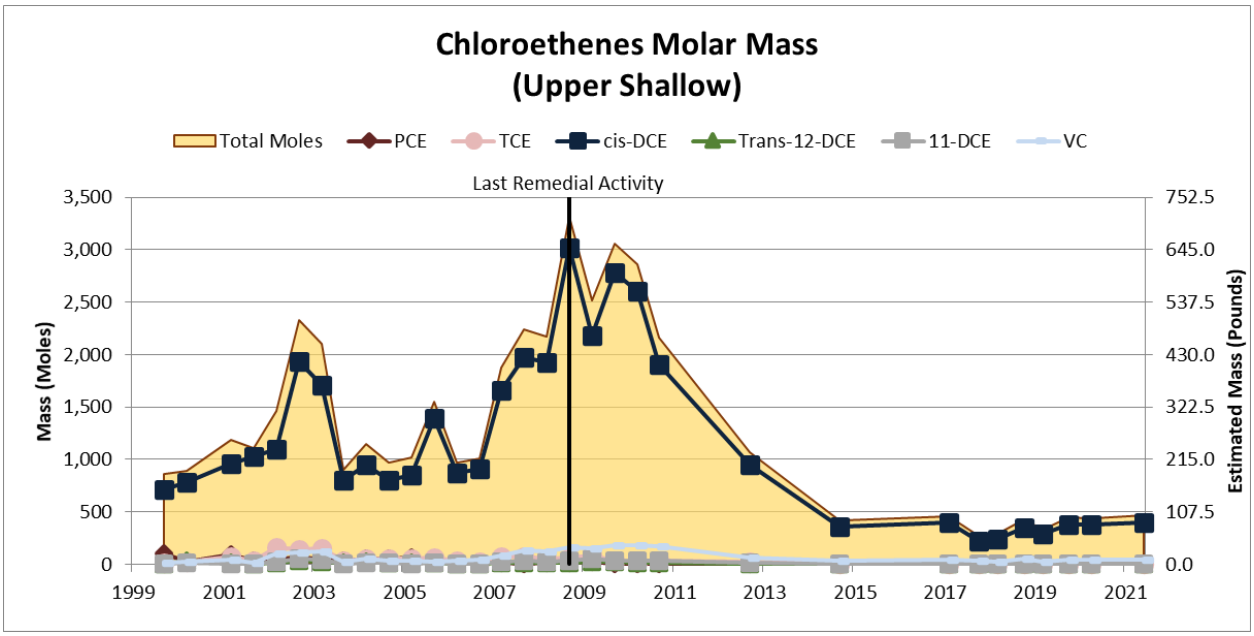
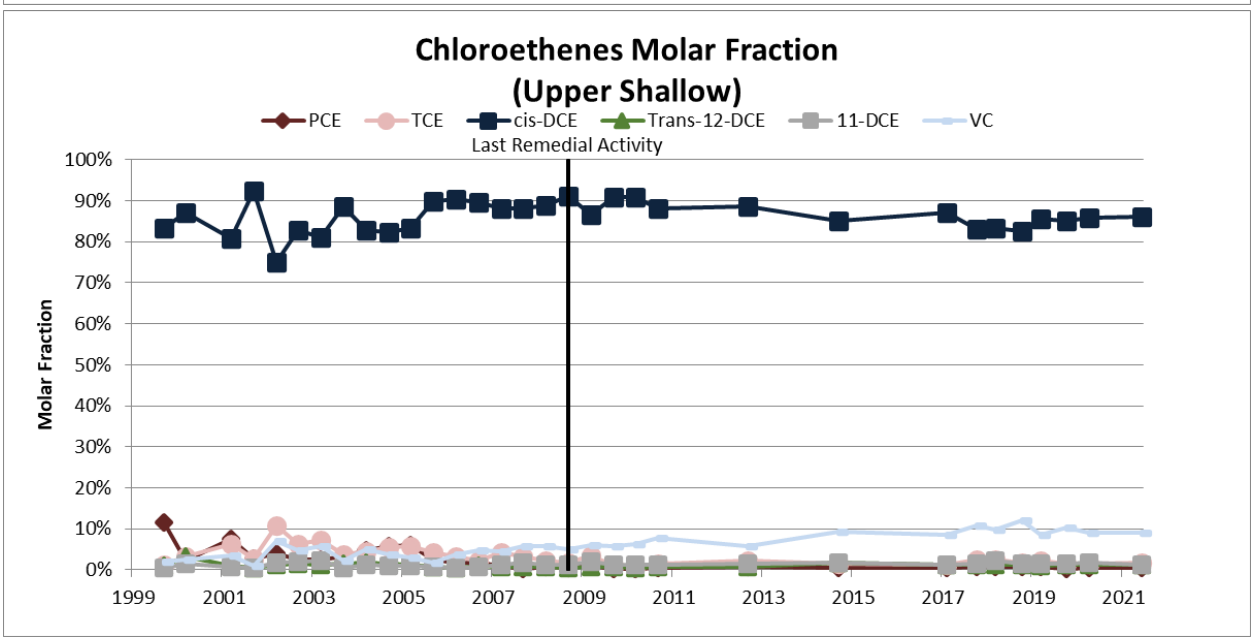
6.1 Chloroethenes

The results of this analysis indicate that the total chloroethene plume, on a molar basis, exhibited a strong decreasing trend following the last remedial activity in 2008, as observed in the figure below. From 2017 to June 2021, the total chloroethene plume has demonstrated a stable trend in molar mass. It is noted that the total chloroethene plume (indicated by the solid yellow plot on the graph below) is in units of moles on the primary y axis. Additionally, the individual constituent molar fractions are shown in the second graph below.





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The molar fractions above demonstrate that in addition to the strong decreasing trend in mass since September 2008, the predominate constituent of the chloroethene plume is cis-1,2-DCE. As observed, cis-1,2-DCE represents roughly 80% to 90% of the total chloroethene plume on a molar basis. It is known that during biological reductive dechlorination, the vast majority of dichloroethene (DCE) produced by the breakdown of PCE to TCE will occur as cis-1,2-DCE. Therefore, the presence of a high percentage of cis-1,2-DCE is a strong indicator that reductive dechlorination has occurred at the Site. The rapid reduction in total moles from 2008 to 2015 is likely the result of various in-situ remediation events that occurred at the Site. The stable trend in total chloroethenes molar-mass since 2015 suggest that natural attenuation processes at the Site are maintaining plume stability.

The Ricker Method® Spatial Change Indicator™ analysis comparing September 2008 to June 2021 shows blue decreases across the Site with reductions in area, average concentration and mass indicator of 6%, 85%, and 86%, respectively. The Ricker Method® Spatial Change Indicator™ analysis comparing February 2017 to June 2021 depicts areas of decrease in the southern and western portions of the plume with slight increases in chloroethene concentrations proximal to MW-4 and stronger increases proximal to MW-3. Despite the recent concentration increase near MW-3, the overall plume continues to be stable.

The molar concentrations and molar fractions of the chloroethenes in MW-3, depicted below, demonstrate that there has been an increase of primarily cis-1,2-DCE since 2017. It is important to note that there are no indications of significant increases in the parent compounds PCE and TCE, thus indicating that there is not a “new release”. The increase in concentrations observed in MW-3 may possibly be attributed to a rise in groundwater elevations across the Site as discussed further in Section 6.5.

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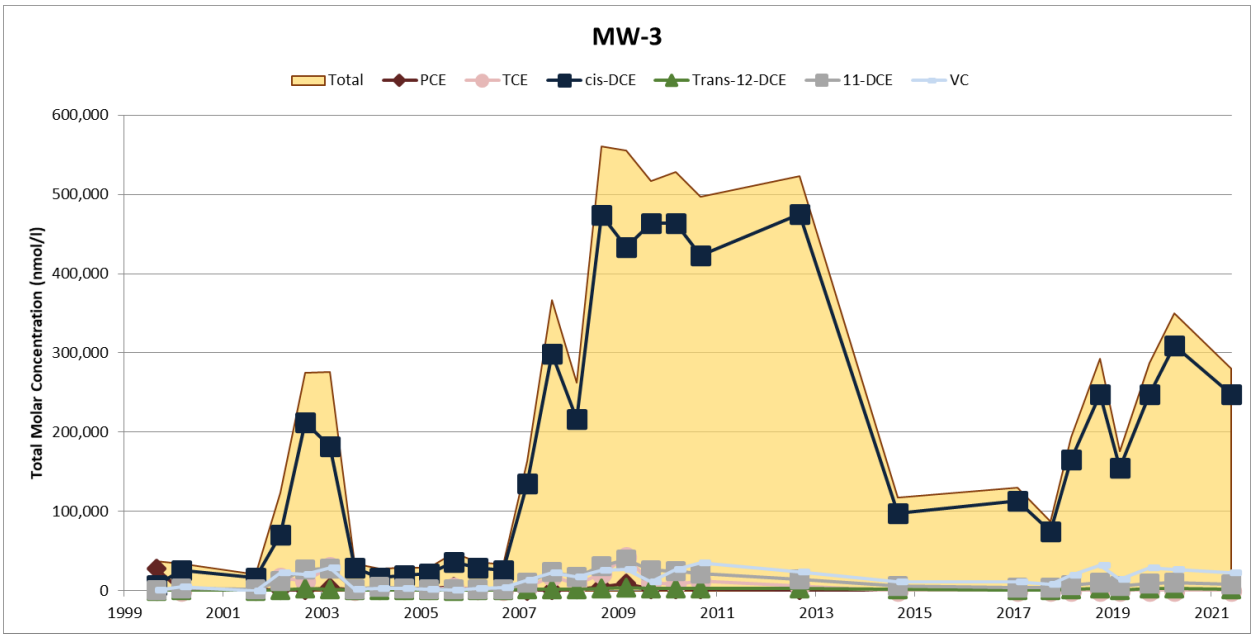

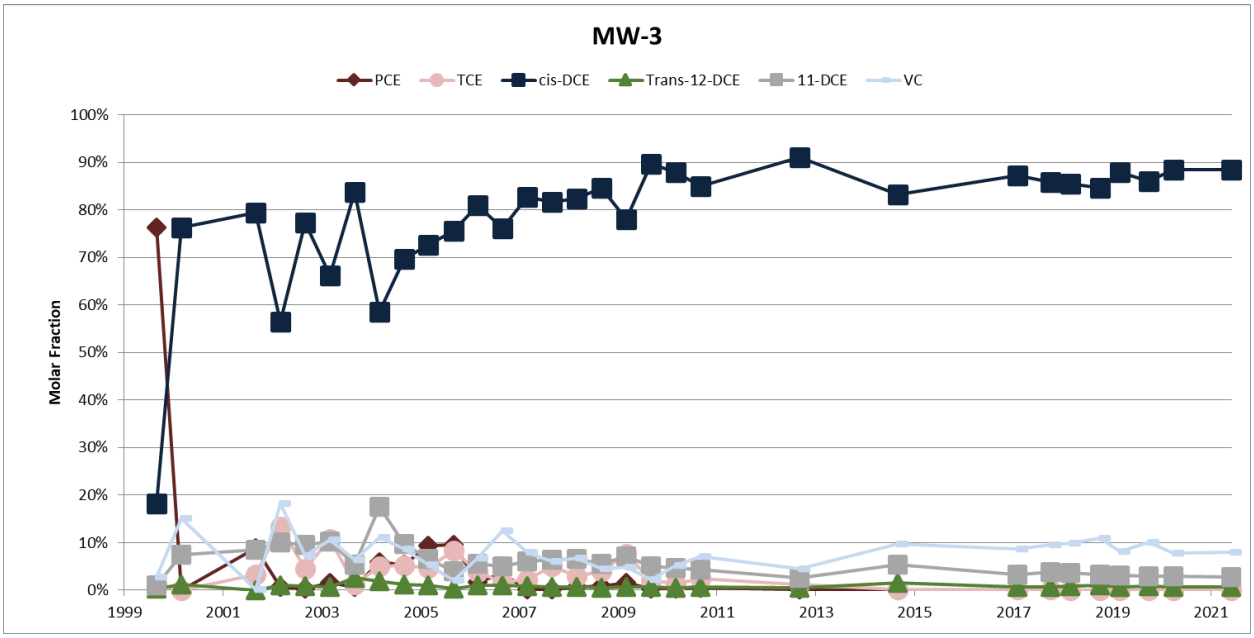

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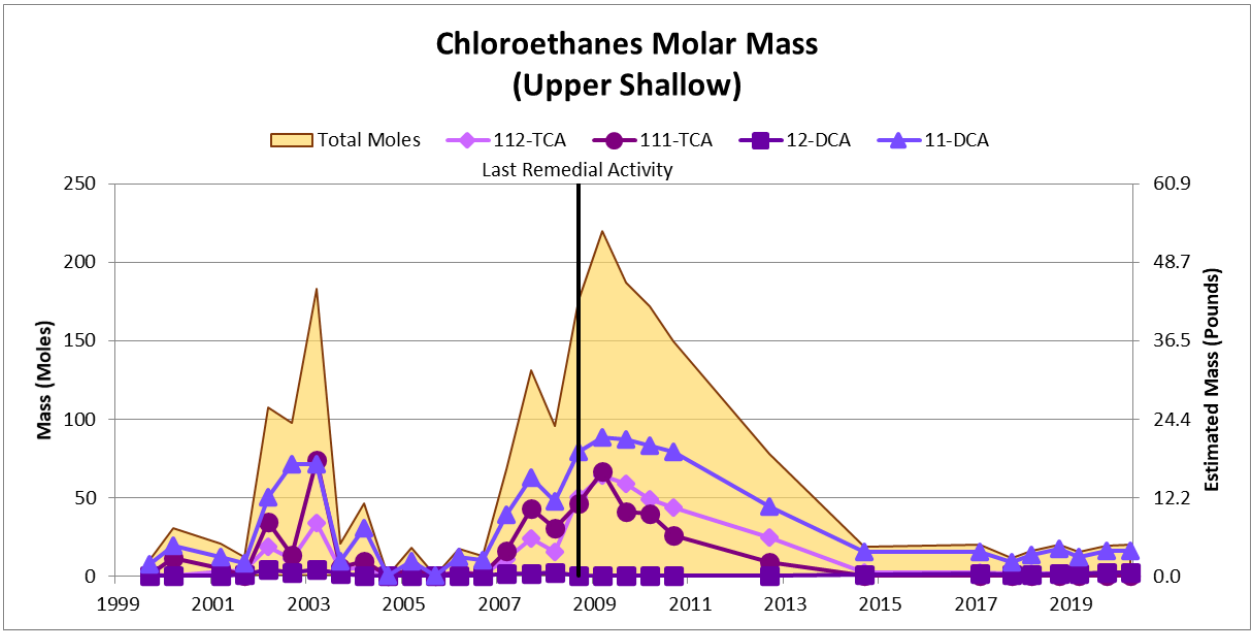
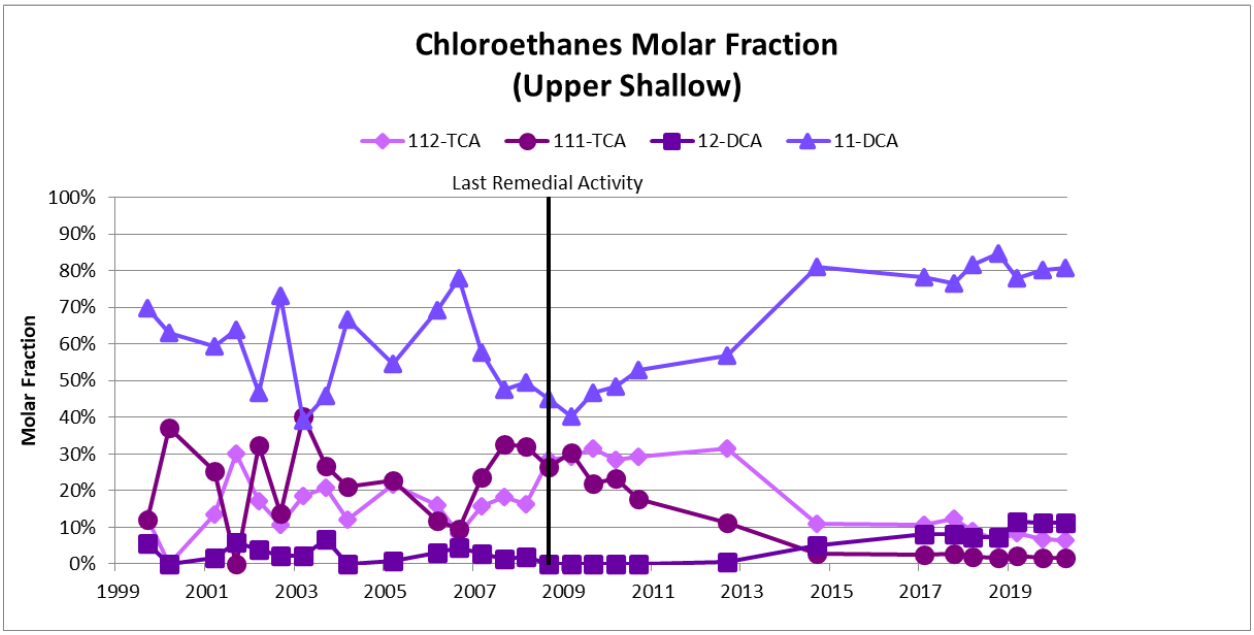
6.2 Chloroethanes

The results of this analysis indicate that the total chloroethane plume, on a molar basis, is also decreasing since September 2008, as observed by the decreasing trend in total moles in the figure below.





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Similar to the chloroethenes, the chloroethanes exhibit patterns consistent with a plume undergoing reductive dechlorination. Since the cessation of anthropogenic remedial activities, the fractions of 1,1,2-TCA and 1,1,1-TCA (parent compounds) are showing a decreasing trend while the daughter products 1,2-DCA and 1,1-DCA are increasing in molar fraction. The combination of decreasing total moles with decreasing parent fraction and increasing daughter fraction is a good indication of biological reductive dechlorination.

The Ricker Method® Spatial Change Indicator™ analysis comparing total chloroethanes from September 2008 to June 2021 shows that the area, average concentration, and mass indicator have decreased 11%, 88%, and 89%, respectively. The Ricker Method® Spatial Change Indicator™ analysis comparing February 2017 to June 2021 depicts an area of increase in total chloroethane concentration proximal to MW-3, similar to what was observed for the chloroethenes. Despite the recent concentration increase near MW-3, the plume continues to be stable.

The molar concentrations and molar fractions of the chloroethanes in MW-3, depicted below, explain that this increase is primarily 1,1-DCA. It is important to note that there are no indications of significant increases in the parent compounds 1,1,1-TCA and 1,1,2-TCA, thus indicating that there is not a “new release”. The similar pattern between the chloroethenes and chloroethanes, observed in MW-3, support the premise that the recent increasing trends of chloroethene and chloroethane daughter products in MW-3 may be related to a recent increase in groundwater elevations liberating constituents previously trapped in the vadose zone as discussed further in Section 6.5.

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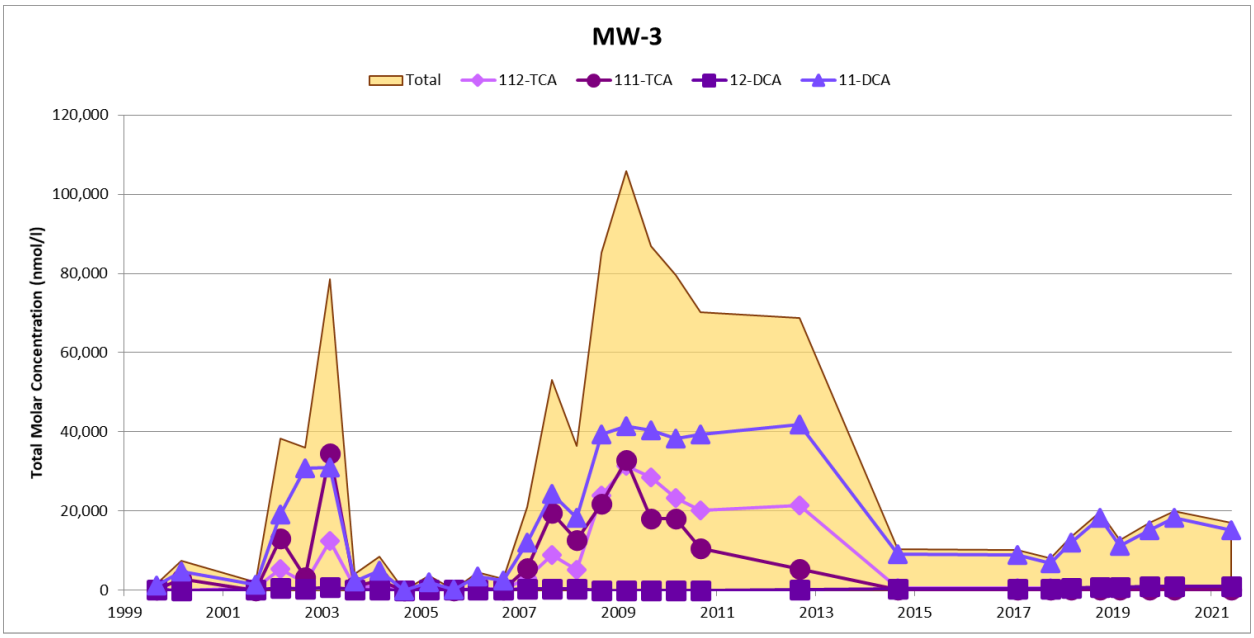

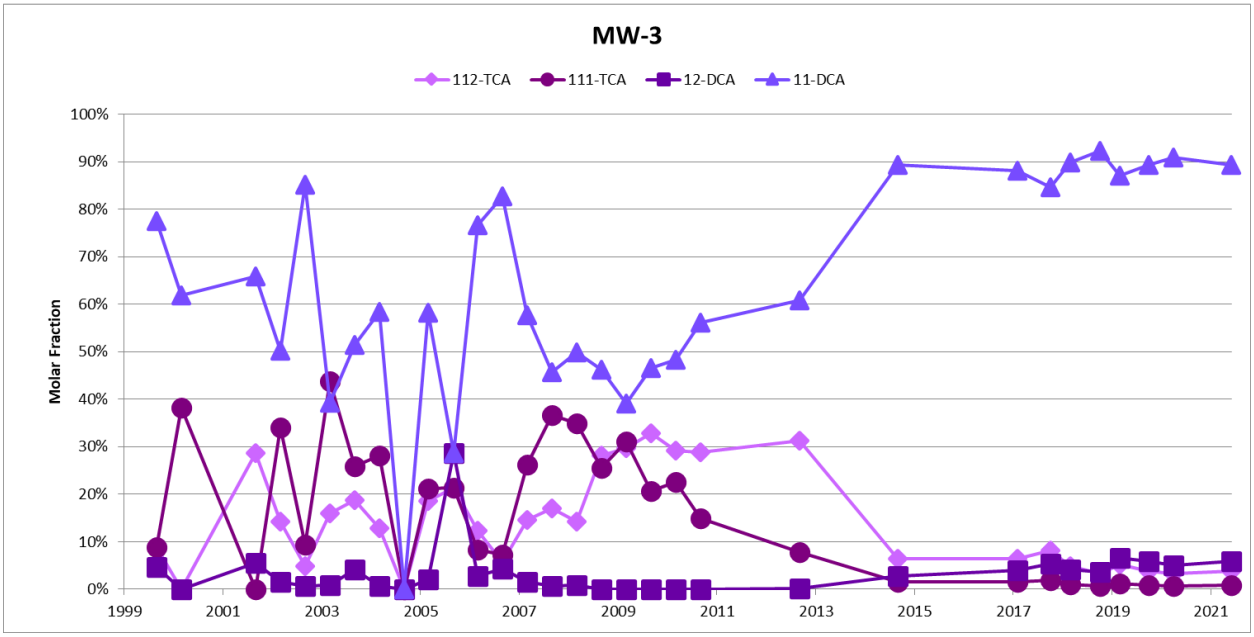

6.3 Aromatic Hydrocarbons

Toluene, ethylbenzene and xylenes exhibit decreasing plume stability trends from September 2008 to June 2021. For the February 2017 to June 2021 period, the plume stability trends for ethylbenzene and xylenes are increasing. Because these two compounds are primarily detected in MW-3 and are increasing similar to what was observed for the chloroethenes and chloroethanes in MW-3, this supports the premise that the increasing trends in MW-3 is related

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to an increase in groundwater levels. It should be noted that there were no detected concentrations of toluene, ethylbenzene or xylenes exceeding US EPA MCLs during the June 2021 event.

6.4 MNA Parameters

Isopleth maps were produced for each of the MNA parameters analyzed (dissolved oxygen, ORP, ferrous iron, methane, ethane, ethene, and total organic carbon). The MNA isopleths show strong correlation and patterns that provide evidence that biological degradation is occurring. For example, there is evidence of biodegradation through the observation of the metabolic byproducts methane, ethane, and ethene. It is known that reductive dechlorination mechanisms are most favorable under strongly reducing redox conditions (methanogenesis), which is evident at the Site by the presence of dissolved methane in most wells. Furthermore, the ethane and ethene concentrations in MW-3 were 36 µg/L and 160 µg/L, respectively, during the June 2021 event, which is strong evidence that the chloroethanes and chloroethenes are degrading via biological reductive dechlorination. The location of the metabolic byproducts and reducing conditions correspond to the highest concentration portion of the CVOC plumes, indicating that an MNA solution for the plumes could be a viable remedial approach. Additionally, the co-location of the aromatic hydrocarbon plumes with the CVOC plumes may prove beneficial from the standpoint that the aromatic hydrocarbons are providing a carbon-source and thus enhancing the anaerobic degradation of the CVOCs, which the evidence supports. MNA isopleths are included in Appendix I.

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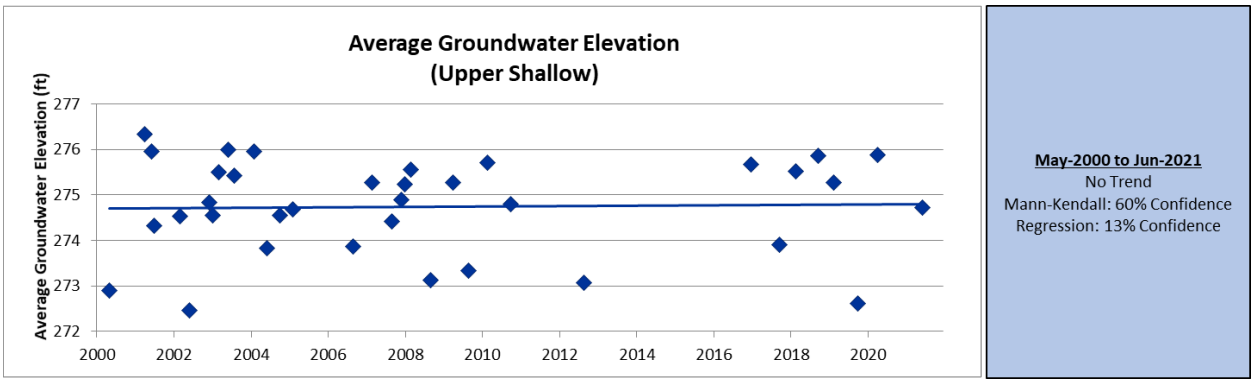
6.5 Groundwater Elevation Trend and Correlation

Groundwater elevations were also evaluated to assess a potential relationship between groundwater elevations and variability observed in concentration data. Groundwater data from May 2000 through June 2021 were contoured using kriging, and the average groundwater elevation was determined for each event using Ricker Method® techniques. These data were plotted to assess temporal trends in average groundwater elevation for the Site. As shown below, no trend in groundwater elevation from May 2010 to June 2021 is apparent for the Site, suggesting that the variability in groundwater elevation at the Site is seasonal in nature and not a sustained rise or fall of the regional groundwater level. It is noted that there is approximately four feet of variability in the average groundwater elevation over the time-period analyzed.



The figure below depicts the Site average groundwater elevation for each event in relation to the historical average groundwater elevation for the Site from May 2000 through June 2021. The Site historical average groundwater elevation is 274.24 ft. The April 2020 average groundwater elevation was 275.38 ft, which is 1.14 ft above the historical average. A prolonged above-average groundwater elevation has the potential to liberate contaminants bound up in the vadose zone by way of diffusion. This intermittent diffusion may serve as a useful mechanism for depleting the residual mass in a former source area by transporting contaminants to the groundwater where they can be degraded via processes such as biological reductive dechlorination, which the evidence supports as occurring at the site. The June 2021 average groundwater elevation was 274.21, which is very near the historical average. This reduction in Site average groundwater elevation is paired with an observed slight decrease in the most recent sampling event of total chloroethenes, total chloroethanes, and aromatic hydrocarbon concentrations in MW-3, further supporting the case that changes in groundwater elevation may be the causation of some variability in contaminant concentrations.

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Building 100, Suite 106
Marietta, Georgia 30062

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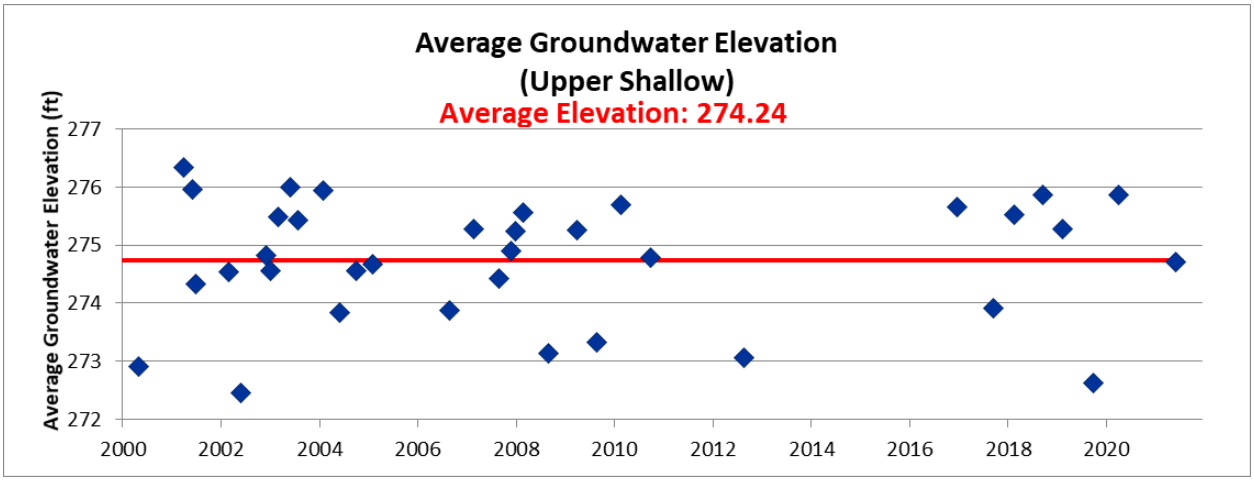

6.6 Lower Shallow Aquifer Wells (i.e., "D" wells)

As mentioned previously, a Groundwater Plume Analytics® plume analysis could not be conducted for the four deeper wells. In instances where this occurs due to lack of a "plume" over the well network, a well-by-well depiction of data can be presented. Appendix I presents a well-by-well display of the four lower shallow aquifer wells (MW-1D, MW-2D, MW-3D, and MW-4D).

The data show that wells MW-2D and MW-3D did not have detectable concentrations of CVOCs in the most recent sampling event. MW-4D had a detectable level of PCE above the MCL and an estimated result for TCE and 1,1-DCE below the MCL. As described in Section 3.0, there are integrity concerns regarding the casing for well MW-4D which may potentially be allowing shallow-impacted groundwater to discharge into the well. Therefore, the concern is that CVOC concentrations in MW-4D may be attributed to apparent breach(es) in the well casing. MW-1D had detectable concentrations of PCE and TCE above MCLs, which appear to be in an increasing trend and worthy of further evaluation.

6.7 Summary

Based on the Groundwater Plume Analytics® analysis conducted on the upper shallow aquifer wells as described herein, it appears that both the chloroethene and chloroethane plumes are stable and show strong evidence of attenuation through natural processes, primarily through reductive dechlorination. The upper shallow aquifer plume is also delineated by the boundary

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wells surrounding the plume. Additionally, the aromatic hydrocarbon plumes also appear to be attenuating and are probably serving as a carbon source for reducing bacteria. Lastly, there does appear to be a recent positive correlation between CVOC concentrations and groundwater levels at the Site. Therefore, fluctuations or variability in the CVOC data may be influenced by groundwater levels. This correlation can be evaluated further with future temporal data.

The deep wells MW-1D and MW-4D have indications of recent increases in PCE and TCE. However, due to well integrity issues observed for MW-4D, the data from this well should be considered suspect. The increasing PCE and TCE concentrations observed in MW-1D are worth further trend evaluation to assess whether this is historical variability or an increasing trend.

7.0 RECOMMENDATIONS

Based on the decreasing trends of total chloroethenes, total chloroethanes, and aromatic hydrocarbons observed in the upper shallow aquifer at the Site and the delineation of the plume by perimeter groundwater monitoring wells in the upper shallow aquifer, the current data strongly support that a monitored natural attenuation remedy would be appropriate and worth pursuing as a future Site remedy for the upper shallow aquifer, once CVOC concentrations in the area proximal to MW-3 and potentially other areas are further decreased. Additionally, based on the Groundwater Plume Analytics®, the plume is stable and not migrating off site. Therefore, it is our opinion that the current monitoring well network in the upper shallow aquifer is sufficient to evaluate plume behavior.

However, based upon the detection of CVOCs in DP-12, we are recommending the installation of an additional shallow monitoring well in this location to evaluate groundwater conditions in this area and to serve as a remedial progress well for the future. Additionally, to complete the delineation of the interior of the plume and to evaluate a future remedial approach, we recommend collecting one additional grab groundwater sample from a temporary point inside the building between MW-3 and MW-5.

Based upon the sampling results for the two sample points identified above, we would then recommend a remedial approach to first knock down the CVOC concentrations at the site in the vicinity of MW-3 and DP-12, and potentially other areas depending on the results of the additional sampling described above, prior to proceeding to a monitored natural attenuation remedy for the

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shallow aquifer. As part of this remedy, the stability of the various groundwater plumes will continue to be evaluated.

For monitoring well MW-1D in the deep aquifer, we recommend continued monitoring. Additionally, due to the potential breaches in the MW-4D well casing at 20 and 30 feet, it may be appropriate to abandon and replace this well. Alternatively, and if feasible, MW-4D can be abandoned and in lieu of installing a new well, perhaps a deep groundwater grab sample can be obtained through direct-push techniques.

Lastly, due to the visual nature of Plume Analytics®, Lennox strongly recommends that a meeting be held to present the results of the Groundwater Plume Analytics® services to DHEC. This meeting should be held prior to final DHEC review of this document.

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TABLES

TABLE 1. SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS - ORGANICS
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

Constituent (ug/kg)			Acetone	2-Butanone	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylacetate	Methylcyclohexane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes (total)
RSL (ug/kg)			67,000,000	19,000,000	100,000	230,000	25,000	990,000	120,000,000	NA	39,000	630	1,900	1,700	250,000
Boring	**Depth (ft bgs)**	**Date Sampled**													
DP-1	10-11	6/25/21	<28	<28	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<14
DP-2	6-7	6/24/21	**15 J**	<18	<4.4	**7.0**	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.8
DP-2	10-11	6/24/21	<20	<20	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8
DP-2	19-20	6/24/21	<19	<19	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.5
DP-3	10-11	6/24/21	**10 J**	<22	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11
DP-4	1-3	6/25/21	**19 J**	<20	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.9
DP-4	10-11	6/25/21	**17 J**	<18	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<9.1
DP-5	1-3	6/25/21	<980	<980	<250	<250	**210 J**	**8100**	**200 J**	<250	<250	<250	<250	<250	**3600**
DP-5	10-11	6/25/21	<17	<17	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<8.7
DP-6	10-11	6/24/21	<20	<20	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10
DP-7	1-3	6/25/21	**48**	<22	<5.6	<5.6	**4.6 J**	**57**	<5.6	**4.8 J**	<5.6	<5.6	<5.6	<5.6	**7.7 J**
DP-7	10-11	6/25/21	<20	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
DP-8	10	6/25/21	<18	<18	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<8.9
DP-9	1-3	6/25/21	**56**	**5.3 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11
DP-9	10-11	6/25/21	<20	<20	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10
DP-10	1-3	6/25/21	**43**	**3.8 J**	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.4
DP-10	10-11	6/25/21	<21	<21	**53**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11
DP-11	10-11	6/25/21	**32**	<15	<3.8	**26**	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	**5.0**	<7.7
DP-11	20-21	6/25/21	<20	<20	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8
DP-12	4-5	6/23/21	<18	<18	<4.5	**17**	<4.5	<4.5	<4.5	<4.5	**77**	**11**	**69**	<4.5	<9.0
DP-12	9-10	6/23/21	<10	<10	<2.6	**15**	<2.6	<2.6	<2.6	<2.6	**21**	**3.3**	**27**	<2.6	<5.2
DP-13	10-11	6/23/21	**11 J**	<20	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10
DP-13	19-20	6/23/21	**19**	<18	<4.4	**5.7**	<4.4	<4.4	<4.4	<4.4	**3.3 J**	**4.4**	**6.9**	<4.4	<8.8
SB-101	1-3	6/25/21	<25	<25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13
SB-102	1-1.5	6/24/21	**36**	<17	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	**3.0 J**	**3.2 J**	<4.1	**3.6 J**	<8.3
SB-103	1-3	6/24/21	**48**	**4.7 J**	<4.5	<4.5	**3300**	**8.2**	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	**11000**
SB-105	1-2	6/24/21	**68**	**4.5 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
SB-106	1-3	6/24/21	**57**	**5.1 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<9.9
SB-108	1-3	6/24/21	**100**	**16 J**	<4.4	<4.4	**2.8 J**	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	**8.7 J**

Notes
ug/kg - micrograms per kilogram
< less than the noted limit of quantitation (LOQ)
J - estimated concentration
RSL - Industrial Soil RSLs (TR=1E-06, HQ=0.1)- US EPA Regional Screening Level Summary Table (May 2021)
NA - not available
Bold - Constituent detected above LOQ or DL
No soil sample collected at DP-14

Prepared by: MAB 7/20/21
Checked by: CDN 10/18/21

TABLE 2. SUMMARY OF DETECTED GROUNDWATER ANALYTICAL RESULTS - ORGANICS
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

Constituent (ug/L)			Acetone	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene Chloride	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes (total)	1,4-Dioxane*
MCL (ug/L)			--	80**	--	5	7	70	100	700	--	5	5	1000	200	5	5	2	10000	--
RSL (ug/L)			1400	0.22	2.8	--	--	--	--	--	45	--	--	--	--	--	--	--	--	0.46
Well	**Screened Interval/Sample Depth (bgs)**	**Date Sampled**																		
MW-1	5 - 20	6/23/21	<400	<20	<20	<20	<20	**1700**	**8.1 J**	**97 J**	<20	<20	<20	<20	<20	<20	<20	**64**	**400 J**	<1.0
MW-1D	48 - 53	6/25/21	<20	<1.0	<1.0	<1.0	<1.0	**0.94 J**	<1.0	<1.0	<1.0	<1.0	**62**	<1.0	<1.0	<1.0	**9.1**	<1.0	<1.0	<1.0
MW-2	5 - 15	6/22/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2D	39 - 44	6/22/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	5 - 15	6/23/21	<4,000	<200	**1500**	**100 J**	**760**	**24000**	**210**	**520**	<200	<200	<200	**190 J**	<200	<200	<200	**1400**	**2300**	**260**
MW-3D	20 - 25	6/23/21	<20	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.78 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4	8 - 18	6/24/21	<20	<1.0	<1.0	<1.0	<1.0	**8.7**	<1.0	<1.0	<1.0	<1.0	**4.2**	<1.0	<1.0	**0.93 J**	**6.9**	<1.0	<1.0	<1.0
MW-4D	72 - 82	6/25/21	<20	<1.0	<1.0	<1.0	**0.47 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**19**	<1.0	<1.0	<1.0	**0.73 J**	<1.0	<1.0	<1.0
MW-5	15 - 20	6/24/21	<100 J	<5.0 J	**4.7 J**	<5.0 J	**2.4 J**	**370 J**	**3.7 J**	**2.7 J**	<5.0 J	<5.0 J	**120 J**	<5.0 J	<5.0 J	<5.0 J	**210 J**	**8.8 J**	<5.0 J	**13**
MW-6R	5 - 15	6/23/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	2 - 12	6/22/21	<20	<1.0	<1.0	<1.0	<1.0	**190**	**0.71 J**	**7.4**	<1.0	<1.0	<10	<10	<1.0	<10	**0.69 J**	**21**	**24**	<1.0
MW-8	2 - 12	6/22/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	2 - 12	6/23/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	2 - 12	6/24/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-14	2 - 12	6/24/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	9 - 19	6/22/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	10 - 20	6/22/21	<20	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	20 - 30	6/22/21	<20	**0.81 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DP-1	20	6/25/21	<20	<1.0	<1.0	<1.0	<1.0	**13**	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	**4.2**	<1.0	<1.0	<1.0
DP-2	16	6/24/21	<20	**1.7**	<1.0	<1.0	<1.0	**52**	**0.83 J**	<1.0	<1.0	<1.0	<1.0	**0.46 J**	<1.0	<1.0	**0.47 J**	**1.9**	**1.8**	<1.0
DP-3	20	6/24/21	<20	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DP-4	20	6/25/21	<20	**0.40 J**	<1.0	<1.0	**0.70 J**	**12**	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	**2.6**	<1.0	<1.0	<1.0
DP-5	20	6/25/21	<100	<5.0	<5.0	<5.0	<5.0	**2.4 J**	<5.0	**16**	**690**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**410**	**5.0**
DP-6	20	6/24/21	**6.8 J**	**0.47 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.9 J**
DP-7	20	6/25/21	<20 J	**0.42 J**	<1.0 J	**1.2 J**	**0.79 J**	**14 J**	<1.0 J	**3.0 J**	**2.9 J**	<1.0 J	**0.83 J**	<1.0 J	<1.0	<1.0 J	**0.65 J**	**6.4 J**	**8.4 J**	**1.6 J**
DP-8	20	6/25/21	<20	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DP-9	20	6/25/21	**6.0 J**	<1.0	<1.0	<1.0	<1.0	**0.91 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.3**	<1.0	**21**
DP-10	20	6/25/21	<20	**0.50 J**	<1.0	<1.0	**7.2**	**0.66 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.5**	<1.0	**1.6 J**
DP-12	20	6/23/21	<20	<1.0	**10**	**0.41 J**	**110**	**120**	**2.4**	**8.7**	<1.0	**2.4**	**2100 J**	<1.0	**1.6**	**280 J**	**5800 J**	**7.0**	**86**	<1.0
DP-14	10	6/24/21	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0

Notes
ug/L - micrograms per liter
< less than the noted limit of quantitation (LOQ)
J - estimated concentration
* - 1,4-dioxane reported to the detection limit (DL)
** - MCL for total Trihalomethanes
MCL - US EPA Maximum Contaminant Level
RSL - US EPA Regional Screening Level for Tap Water
Bold - Constituent detected above LOQ or DL
Bold and Shaded - Constituent detected above the RSL or MCL

Prepared by: MAB 7/20/21
Checked by: CDN 10/18/21

TABLE 3. SUMMARY OF PDS GROUNDWATER ANALYTICAL RESULTS FROM MW-1D AND MW-4D
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

Constituent (ug/L)			Acetone	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Tetrachloroethene	Toluene	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes (total)	1,4-Dioxane*
MCL (ug/L)			--	80**	--	5	7	70	100	700	5	1000	5	5	2	10000	--
RSL (ug/L)			1400	0.22	2.8	--	--	--	--	--	--	--	--	--	--	--	0.46
Well	**Sample Depth (ft bTOC)**	**Date Sampled**															
MW-1D	16.2	6/21/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.1**	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0
MW-1D	36.2	6/21/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0
MW-4D	16	6/21/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4D	36	6/21/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4D	56	6/21/21	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes
ug/L - micrograms per liter
< less than the noted limit of quantitation (LOQ)
J - estimated concentration
* - 1,4-dioxane reported to the detection limit (DL)
** - MCL for total Trihalomethanes
MCL - US EPA Maximum Contaminant Level
RSL - US EPA Regional Screening Level for Tap Water
PDS - passive diffusion sampler
ft bTOC - feet below top of casing
Bold - Constituent detected above LOQ or DL

TABLE 4. GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

Former Ducane Company Site

Blackville, Barnwell County, South Carolina

BLWM File # 401356

Monitoring Well	Installation Date	Well Completion	Ground Surface Elevation feet, NAVD	Top of Casing (TOC) Elevation feet, NAVD	Screened Interval feet, bgs Top	Screened Interval feet, bgs Bottom	Screen Length feet	Well Depth feet, bgs	Total Boring Depth feet, bgs
MW-1	09/01/99	Stick-up	279.09	282.05	5	20	15	20	30
MW-1D	09/01/99	Stick-up	279.08	282.08	48	53	5	53	53
MW-2	09/01/99	Stick-up	274.76	277.71	5	15	10	15	20
MW-2D	09/02/99	Stick-up	274.72	277.61	39	44	5	44	44
MW-3	09/01/99	Stick-up	277.09	279.68	5	15	10	15	15
MW-3D	09/02/99	Stick-up	277.11	279.94	20	25	5	25	25
MW-4	09/01/99	Stick-up	276.89	279.74	8	18	10	18	20
MW-4D	06/25/01	Stick-up	277.05	279.91	72	82	10	82	96
MW-5	05/12/00	Flush	280.23	279.85	15	20	5	20	20
MW-6R	09/24/12	Flush	277.24	277.73	5	15	10	15	15
MW-7	03/26/01	Stick-up	277.65	280.76	2	12	10	12	12
MW-8	03/27/01	Flush	277.11	276.83	2	12	10	12	12
MW-9	03/28/01	Stick-up	278.76	279.66	2	12	10	12	12
MW-10	03/28/01	Stick-up	276.70	278.12	2	12	10	12	12
MW-11	03/28/01	Stick-up	279.56	280.64	2	12	10	12	12
MW-12	03/28/01	Stick-up	NA	NA	2	12	10	12	12
MW-13	10/14/02	Stick-up	NA	NA	3	10	7	10	10
MW-14	10/14/02	Stick-up	278.98	280.81	2	12	10	12	12
MW-15	09/24/12	Stick-up	280.68	282.82	9	19	10	19	20
MW-16	10/18/17	Stick-up	275.31	278.48	10	20	10	20	20
MW-17	10/17/19	Stick-up	282.14	285.28	20	30	10	30	30

Notes

Prepared by: TJM 11/19/19

Checked by: CDN 01/16/20

bgs - below ground surface

NAVD - North American Vertical Datum of 1988

Well construction information obtained from boring logs or the Groundwater and Soil Assessment Report, dated January 2013.

Elevations based on survey by American Engineering Consultants, Inc. dated November 12, 2017; Well MW-17 surveyed on 10/18/19.

NA - not available; wells MW-12 and MW-13 could not be located

TABLE 5. GROUNDWATER LEVEL MEASUREMENTS

Former Ducane Company Site

Blackville, Barnwell County, South Carolina

BLWM File # 401356

Monitoring Well	Top of Casing (TOC) Elevation feet, NAVD	June 21, 2021	
		Depth to Water feet below TOC	Groundwater Elevation feet
MW-1	282.05	6.94	275.11
MW-1D	282.08	10.32	271.76
MW-2	277.71	3.71	274.00
MW-2D	277.61	5.72	271.89
MW-3	279.68	5.19	274.49
MW-3D	279.94	4.85	275.09
MW-4	279.74	7.65	272.09
MW-4D	279.91	12.64	267.27
MW-5	279.85	6.27	273.58
MW-6R	277.73	2.05	275.68
MW-7	280.76	5.35	275.41
MW-8	276.83	0.70	276.13
MW-10	278.12	4.61	273.51
MW-11	280.64	7.10	273.54
MW-14	280.81	7.20	273.61
MW-15	282.82	6.85	275.97
MW-16	278.48	5.00	273.48
MW-17	285.28	9.76	275.52

Notes

NAVD - North American Vertical Datum of 1988

TOC - top-of-casing

Prepared by: TJM 7/30/21

Checked by: MAB 7/30/21

TABLE 6. FIELD PARAMETERS

Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

Monitoring Well	**Sample Date**	**Purge Volume** Gallons	**Temperature** °C	**pH** Standard Units	**Dissolved Oxygen** mg/L	**ORP** mV	**Conductivity** µs/cm	**Turbidity** NTU	**Ferrous Iron** mg/L
MW-1	6/23/21	0.25	22.7	4.95	1.23	88.9	92.1	4.45	0.91
MW-1D	6/25/21	0.50	22.6	5.56	2.31	228.3	19.5	1.42	0.57
MW-2	6/22/21	0.35	26.2	4.41	0.24	401.9	51.2	0.38	0.10
MW-2D	6/22/21	0.65	23.5	5.55	4.77	346.7	25.7	1.38	0.11
MW-3	6/23/21	0.70	22.1	4.67	0.03	0.8	196.1	1.37	2.70
MW-3D	6/23/21	0.55	21.0	4.35	2.78	418.6	87.0	0.98	0.06
MW-4	6/24/21	0.70	18.9	4.94	0.11	111.7	42.6	8.80	0.25
MW-4D	6/25/21	1.00	18.7	4.75	1.09	302.5	19.2	0.83	0.12
MW-5	6/24/21	0.60	19.0	4.61	0.27	210.7	85.9	1.07	1.59
MW-6R	6/23/21	0.60	19.4	5.47	0.39	168.3	35.2	10.00	0.17
MW-7	6/22/21	0.23	23.2	5.89	5.90	104.4	74.6	41.20	0.59
MW-8	6/22/21	0.46	21.6	5.45	6.35	110.4	101.3	26.50	0.31
MW-10	6/23/21	0.55	20.2	4.80	0.27	223.5	47.6	2.13	0.57
MW-11	6/24/21	0.65	21.2	6.24	0.10	-34.8	289	2.50	0.71
MW-14	6/24/21	0.50	19.0	5.09	0.19	107.7	48.6	4.00	1.92
MW-15	6/22/21	0.60	20.7	4.87	0.02	171.9	96.9	4.11	0.39
MW-16	6/22/21	0.65	20.1	4.03	4.47	408.1	109.6	2.99	0.10
MW-17	6/22/21	0.75	19.4	4.31	2.18	428.7	56.9	3.33	0.06

Notes

°C - degrees Celsius
mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NTU - nephelometric turbidity units
ORP - oxidation reduction potential
ORP values were not consistent with historical measurements which may indicate a calibration error. Results are suspect.

Prepared by: TJM 7/30/21
Checked by: MAB 7/30/21

TABLE 7. GROUNDWATER MNA RESULTS

Former Ducane Company Site

Blackville, Barnwell County, South Carolina

BLWM File # 401356

Monitoring Well/Boring ID	Screened Interval/ Sample Depth (bgs)	Sample Date	Alkalinity mg/L	Chloride mg/L	Nitrate-N mg/L	Sulfate mg/L	Sulfide mg/L	TOC mg/L	Ethane ug/L	Ethene ug/L	Methane ug/L	Propane ug/L
MW-1	5 - 20	6/23/21	<20	**21**	<0.020	**2.4**	<1.0	**1.4**	<10	**19**	**740**	<15
MW-1D	48 - 53	6/25/21	<20	**2.2**	<0.020	**0.74 J**	**1.3**	**2.8**	<10	<10	**2.6 J**	<15
MW-2	5 - 15	6/22/21	<20	**7.1**	**1.5**	<1.0	**1.7**	<1.0	<10	<10	**2.7 J**	<15
MW-2D	39 - 44	6/22/21	<20	**2.9**	**0.25**	**1.3**	**1.6**	<1.0	<10	<10	**3.4 J**	<15
MW-3	5 - 15	6/23/21	<20	**40**	<0.020	**37**	**3.0**	**21**	**36**	**160**	**8500**	<15
MW-3D	20 - 25	6/23/21	<20	**13**	**3.4**	**0.57 J**	**1.2**	<1.0	<10	<10	**5.7 J**	<15
MW-4	8 - 18	6/24/21	<20	**6.7**	<0.020	**1.2**	<4.0	**0.74 J**	<10	<10	**140**	<15
MW-4D	72 - 82	6/25/21	<20	**1.8**	**0.015 J**	**0.93 J**	<1.0	**1.7**	<10	<10	<10	<15
MW-5	15 - 20	6/24/21	<20	**19**	**0.27**	**0.47 J**	<1.1	<1.0	<10	**3.8 J**	**1800**	<15
MW-6R	5 - 15	6/23/21	<20	**2.5**	**0.15**	**1.3**	<1.0	**7.4**	<10	<10	**4.6 J**	<15
MW-7	2 - 12	6/22/21	**22**	**4.7**	<0.020	**2.4**	<1.0	**9.1**	<10	<10	**15**	<15
MW-8	2 - 12	6/22/21	<20	**1.1**	**0.51**	**4.3**	<1.0	**6.7**	<10	<10	**2.8 J**	<15
MW-10	2 - 12	6/23/21	<20	**7.1**	<0.020	**2.7**	<1.0	**1.9**	<10	<10	**140**	<15
MW-11	2 - 12	6/24/21	**120**	**4.8**	<0.020	**3.3**	<1.0	**2.6**	<10	<10	**390**	<15
MW-14	2 - 12	6/24/21	<20	**3.0**	<0.020	**6.8**	<1.1	**0.60 J**	<10	<10	**80**	<15
MW-15	9 - 19	6/22/21	<20	**4.3**	<0.020	**12**	**4.5**	<1.0	<10	<10	**5.3 J**	<15
MW-16	10 - 20	6/22/21	<20	**13**	**5.6**	<1.0	**1.1**	<1.0	<10	<10	**3.3 J**	<15
MW-17	20 - 30	6/22/21	<20	**8.3**	**1.8**	**0.29 J**	<1.0	<1.0	<10	<10	**3.2 J**	<15
DP-1	20	6/25/20	na	na	na	na	na	na	<10	<10	**3.7 J**	<15
DP-2	16	6/24/21	na	na	na	na	na	na	<10	<10	**10**	<15
DP-3	20	6/24/21	na	na	na	na	na	na	<10	<10	**17**	<15
DP-4	20	6/25/21	na	na	na	na	na	na	**6.2 J**	**5.2 J**	**16**	<15
DP-5	20	6/25/21	na	na	na	na	na	na	<10	<10	**420**	<15
DP-6	20	6/24/21	na	na	na	na	na	na	**2.8 J**	**3.0 J**	**9.3 J**	<15
DP-7	20	6/25/21	na	na	na	na	na	na	<10	<10	**9.4 J**	<15
DP-8	20	6/25/21	na	na	na	na	na	na	<10	<10	**6.7 J**	<15
DP-9	20	6/25/21	na	na	na	na	na	na	<10	<10	**290**	<15
DP-10	20	6/25/21	na	na	na	na	na	na	<10	<10	**64**	<15
DP-12	20	6/23/21	na	na	na	na	na	na	<10	<10	**80**	<15
DP-14	10	6/24/21	na	na	na	na	na	na	**2.9 J**	**2.5 J**	**57**	<15

mg/L - milligrams per liter

ug/L - micrograms per liter

bgs - below ground surface

na - not analyzed

TOC - total organic carbon

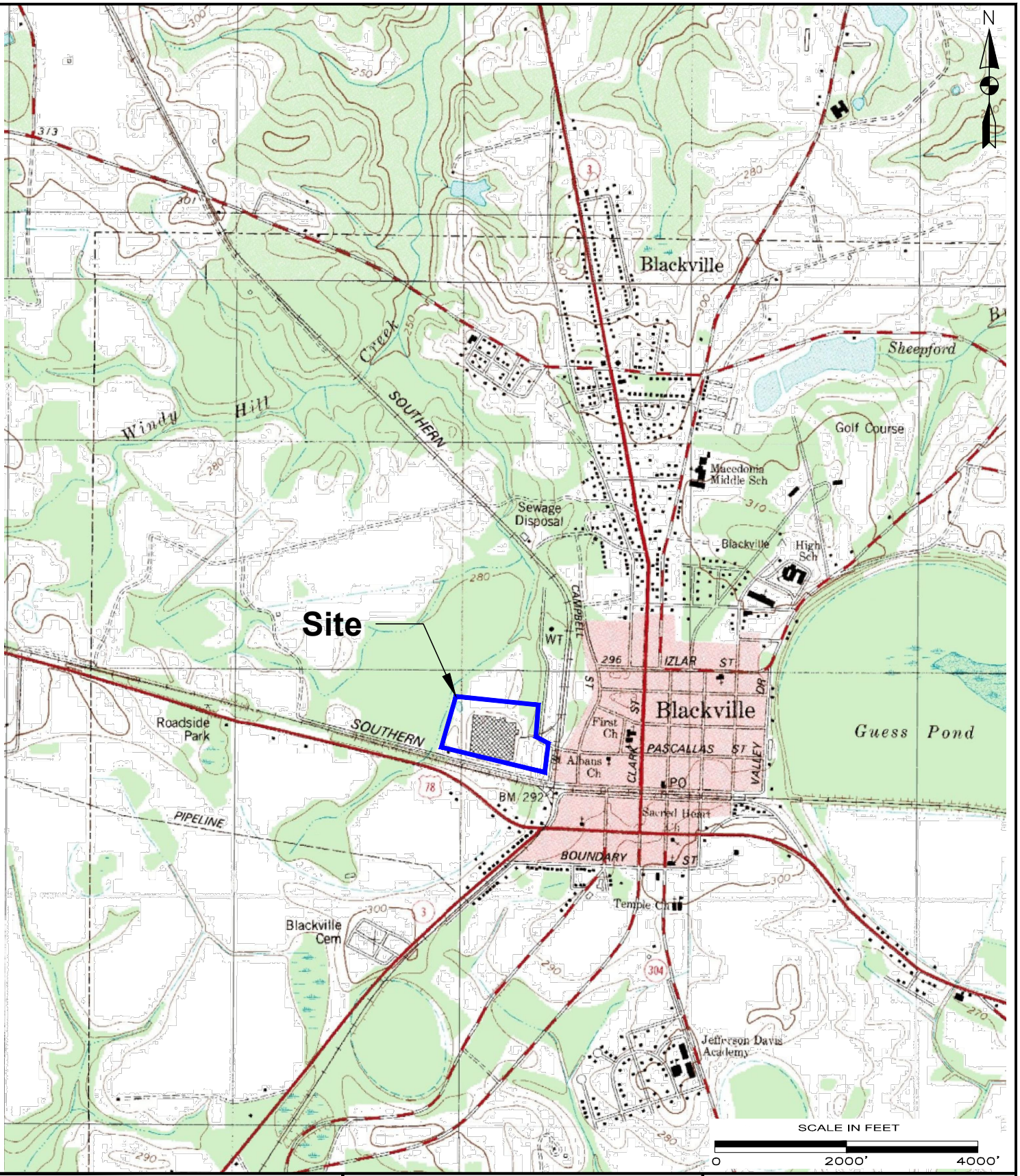
J - estimated concentration above the detection limit (DL)

Bold - Constituent detected above limit of quantitation (LOQ) or DL

Prepared by: MAB 7/20/21

Checked by: CDN 10/18/21

FIGURES



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FORMER DUNCANE COMPANY SITE
BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

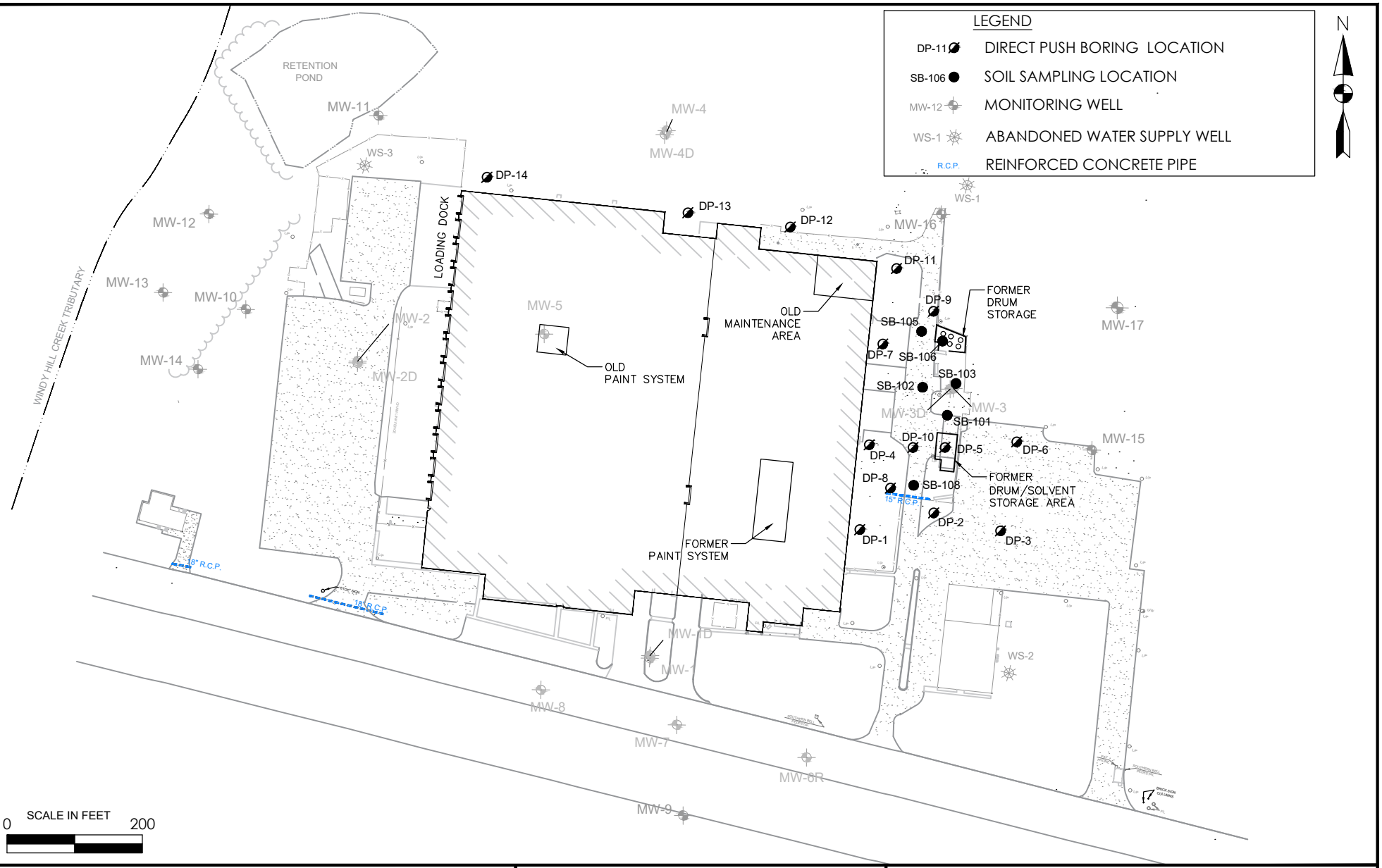
PROJECT NO. 02.20160378.21

EARTHCON®

EarthCon Consultants, Inc.
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

SITE LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	RLA	06/22/2018	1



FORMER DUCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00

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SOIL BORING LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
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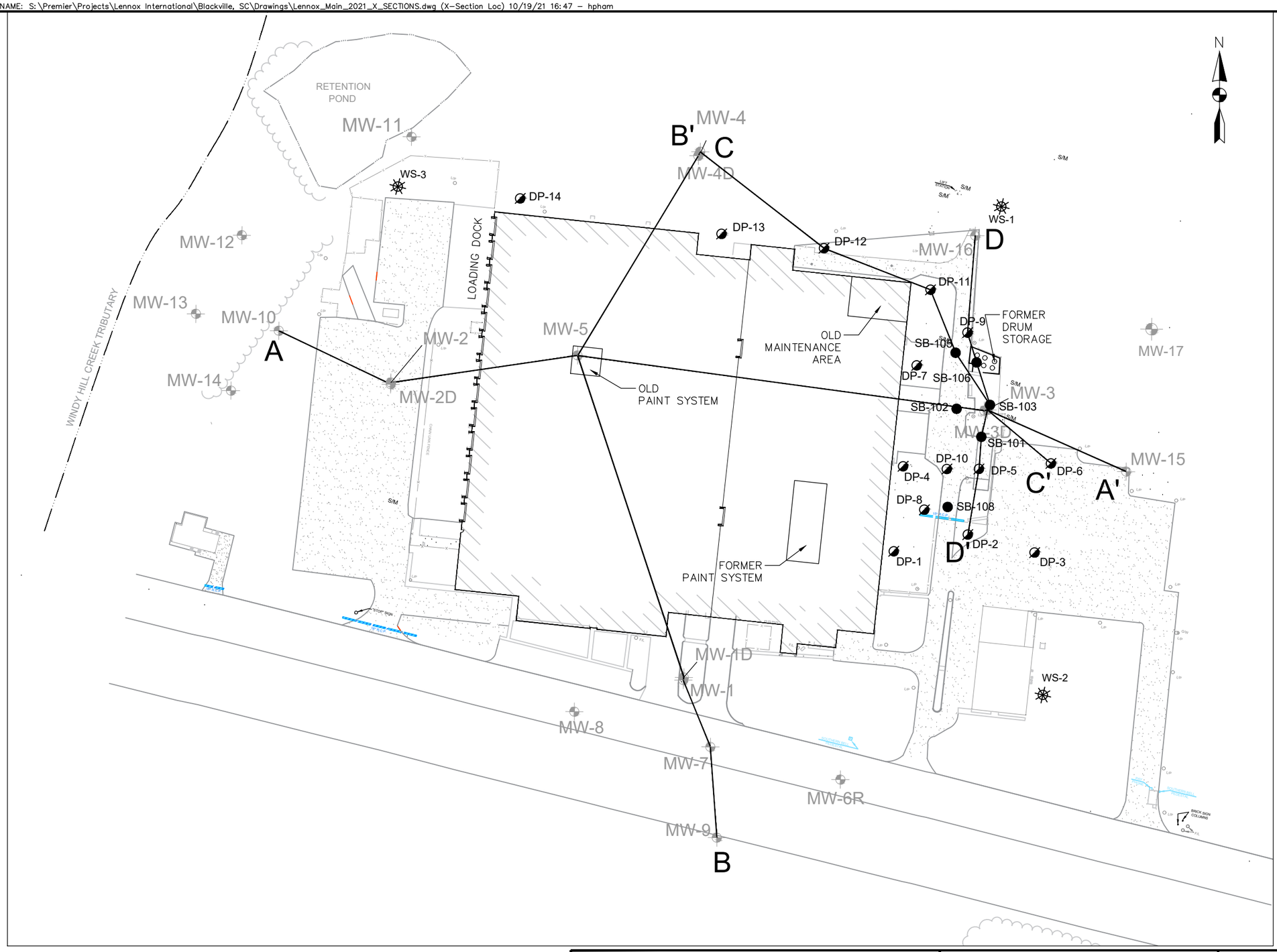

LEGEND

MW-12 MONITORING WELL

WS-1 ABANDONED WATER SUPPLY WELL

FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA

BLWM FILE # 401356

PROJECT NO. 02.20160378.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	10/18/2021	4

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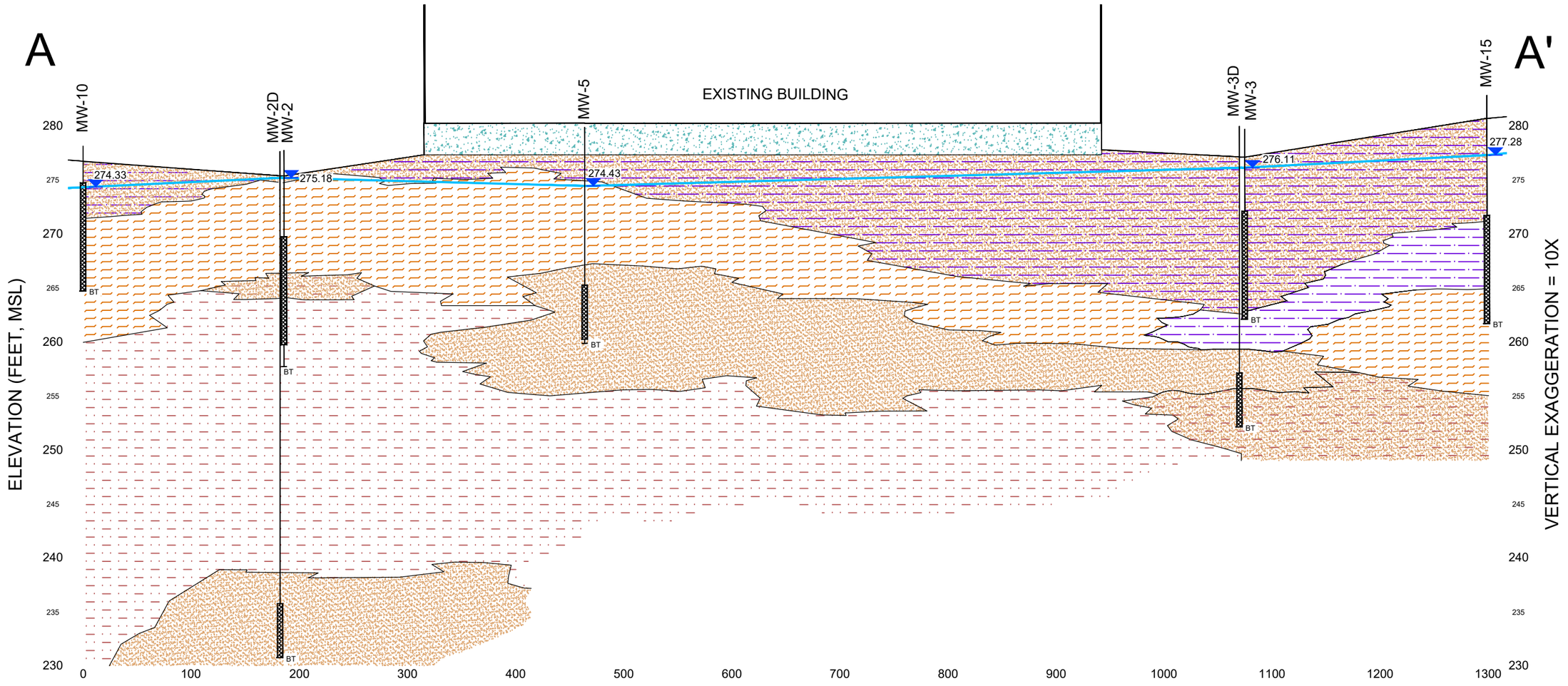

LEGEND

- EXISTING BUILDING
- CLAYEY SAND
- SILT / CLAYEY SILT
- SAND
- SANDY CLAY
- SANDY SILT
- CLAY
- SILTY SAND
- GROUNDWATER ELEVATION (FEET, NAVD.88) APRIL 20, 2020
- WELL SCREEN INTERVAL
- BT — BORING TERMINATED

10'
0
100'

FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION A-A'

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	10/25/2021	4

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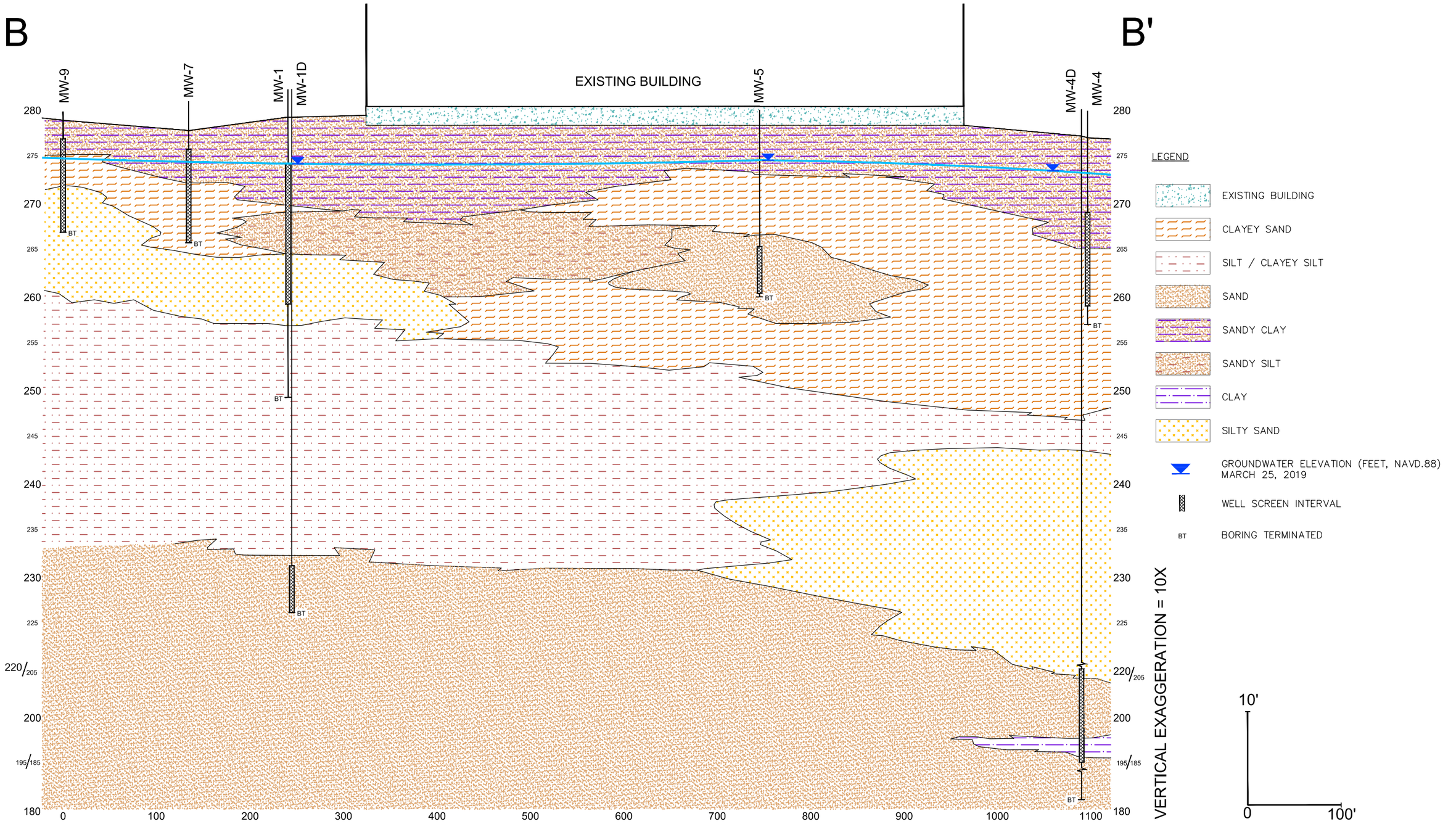

0 25 50 100 200

HORIZONTAL SCALE: 1"=100'

FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA

BLWM FILE # 401356

PROJECT NO. 02.20160378.21

EARTHCON®

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION B-B'

DRAWN:	CHECKED:	DATE:	FIGURE:
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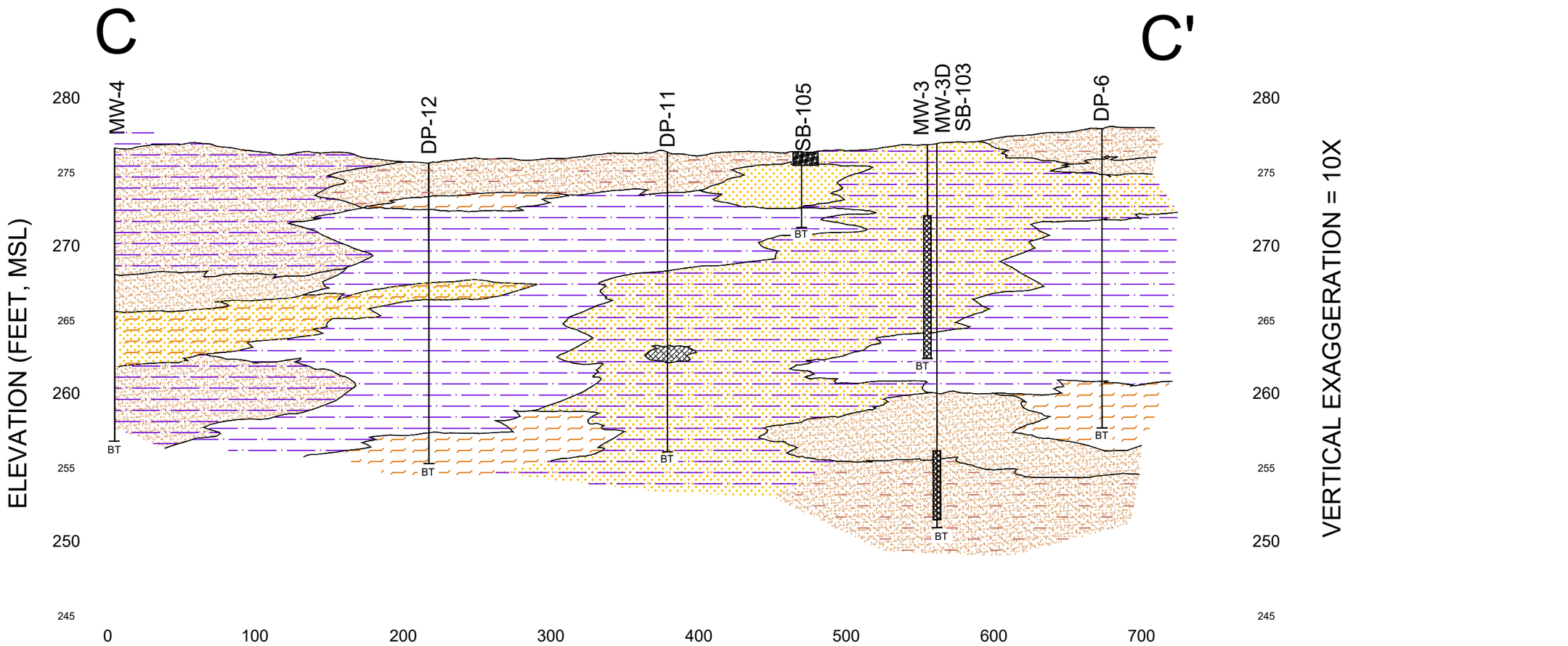

LEGEND

- SANDY CLAY
- SANDY SILT
- ASPHALT
- CLAYEY SAND
- CLAY
- DEGRADED WOOD
- SILT / CLAYEY SILT
- SILTY SAND
- SILTY CLAYEY SAND
- SAND
- WELL SCREEN INTERVAL
- BT — BORING TERMINATED

10'
0
100'

FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00

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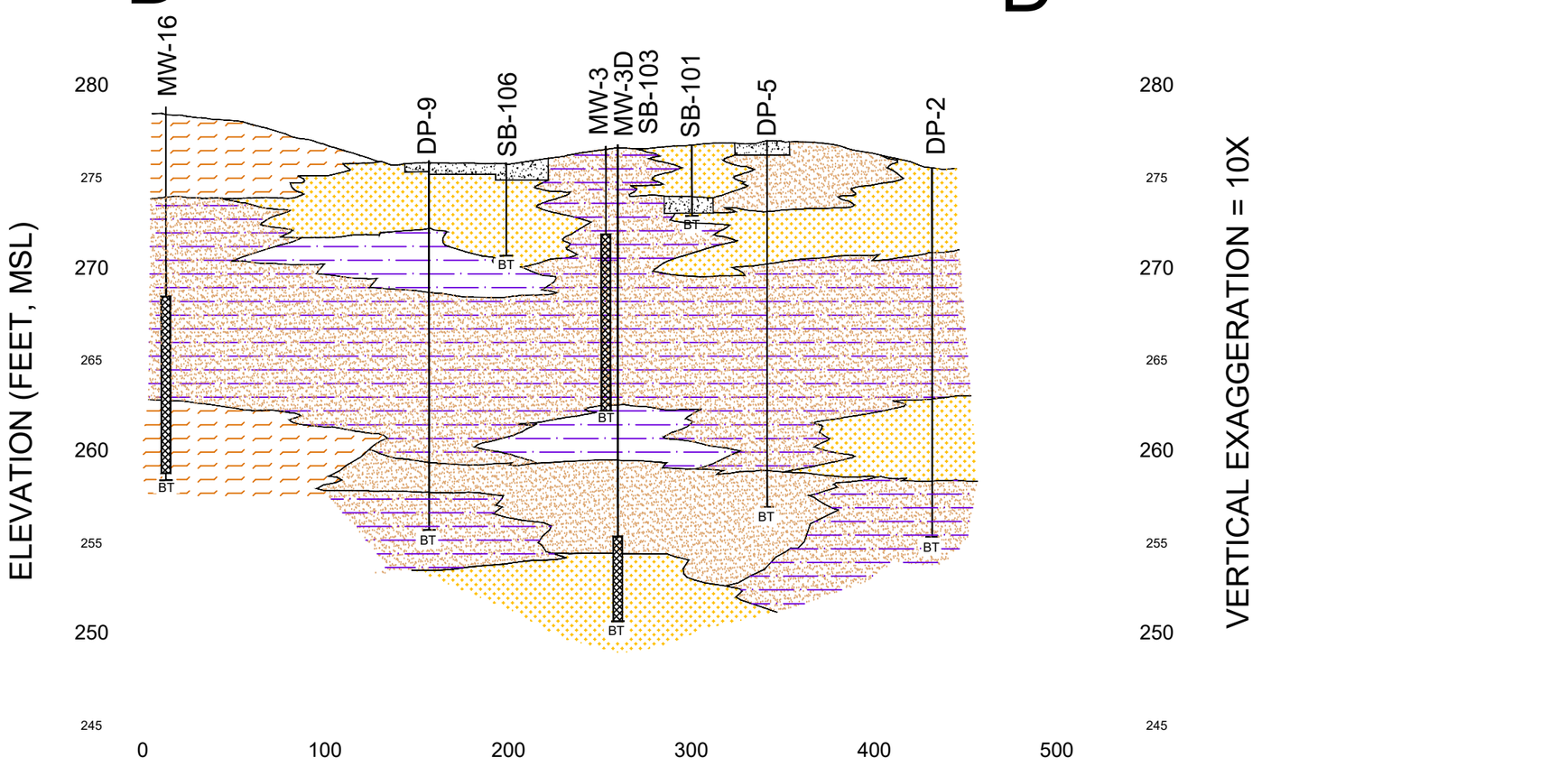
CROSS SECTION C-C'

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	10/25/2021	6

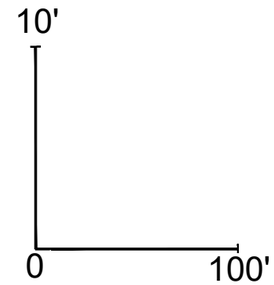
D

D'



LEGEND

- CLAYEY SAND
- SILT / CLAYEY SILT
- SAND
- SANDY CLAY
- BT — BORING TERMINATED
- SANDY SILT
- CLAY
- SILTY SAND
- WELL SCREEN INTERVAL
- CONCRETE
- SILTY CLAYEY SAND



FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00

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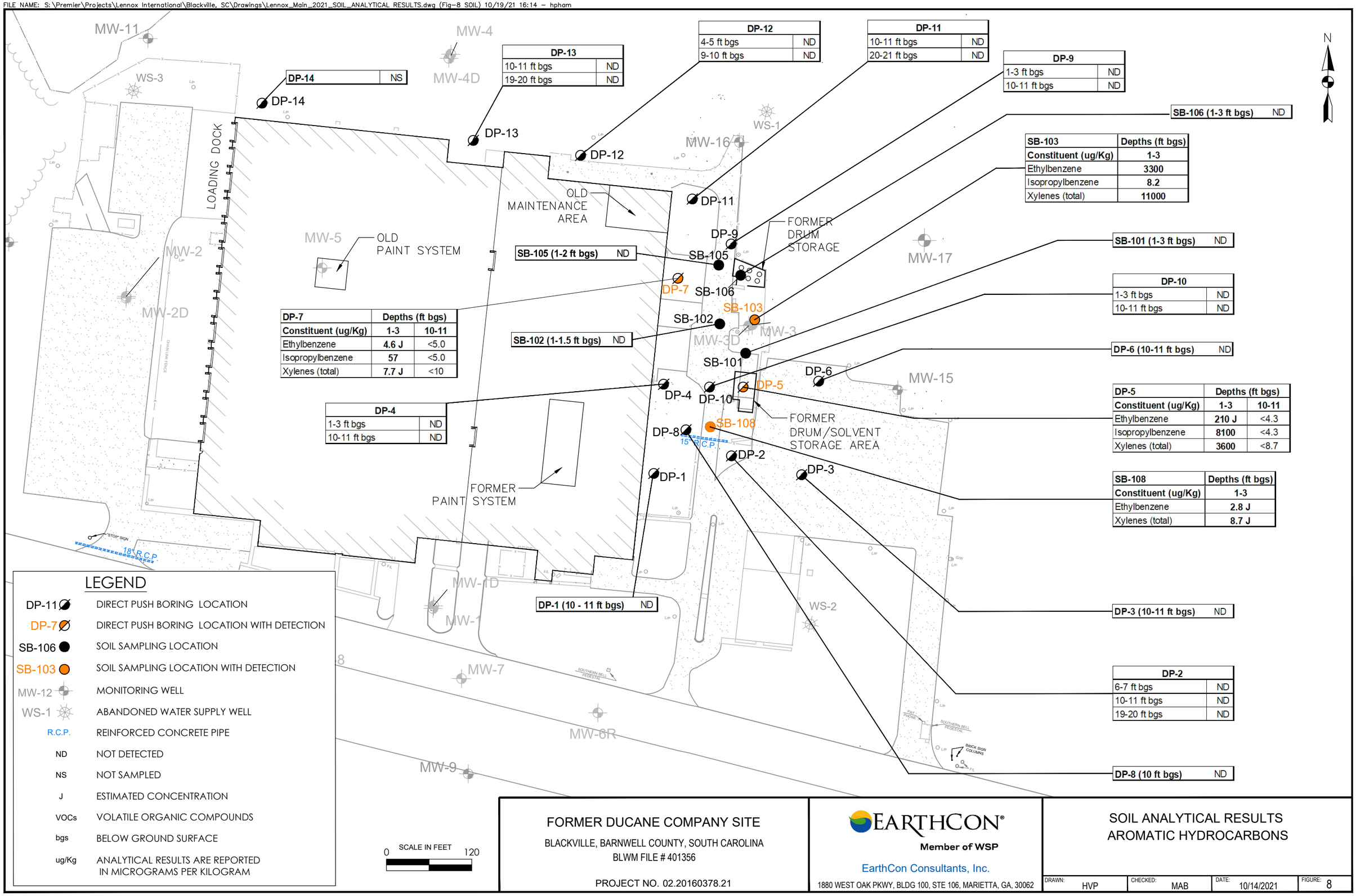
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION D-D'

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	AGL	10/19/2021	7

FILE NAME: S:\Premier\Projects\Lennox International\Blackville, SC\Drawings\Lennox_Main_2021_SOIL_ANALYTICAL RESULTS.dwg (Fig-8 SOIL) 10/19/21 16:14 - hpham



DP-14	NS

DP-13	
10-11 ft bgs	ND
19-20 ft bgs	ND

DP-12	
4-5 ft bgs	ND
9-10 ft bgs	ND

DP-11	
10-11 ft bgs	ND
20-21 ft bgs	ND

DP-9	
1-3 ft bgs	ND
10-11 ft bgs	ND

SB-106 (1-3 ft bgs) ND

SB-103	Depths (ft bgs)
Constituent (ug/Kg)	1-3
Ethylbenzene	3300
Isopropylbenzene	8.2
Xylenes (total)	11000

SB-105 (1-2 ft bgs) ND

SB-101 (1-3 ft bgs) ND

DP-10	
1-3 ft bgs	ND
10-11 ft bgs	ND

DP-7	Depths (ft bgs)	
Constituent (ug/Kg)	1-3	10-11
Ethylbenzene	4.6 J	<5.0
Isopropylbenzene	57	<5.0
Xylenes (total)	7.7 J	<10

SB-102 (1-1.5 ft bgs) ND

DP-6 (10-11 ft bgs) ND

DP-4	
1-3 ft bgs	ND
10-11 ft bgs	ND

DP-5	Depths (ft bgs)	
Constituent (ug/Kg)	1-3	10-11
Ethylbenzene	210 J	<4.3
Isopropylbenzene	8100	<4.3
Xylenes (total)	3600	<8.7

SB-108	Depths (ft bgs)
Constituent (ug/Kg)	1-3
Ethylbenzene	2.8 J
Xylenes (total)	8.7 J

DP-1 (10 - 11 ft bgs) ND

DP-3 (10-11 ft bgs) ND

DP-2	
6-7 ft bgs	ND
10-11 ft bgs	ND
19-20 ft bgs	ND

DP-8 (10 ft bgs) ND

LEGEND

DP-11	DIRECT PUSH BORING LOCATION
DP-7	DIRECT PUSH BORING LOCATION WITH DETECTION
SB-106	SOIL SAMPLING LOCATION
SB-103	SOIL SAMPLING LOCATION WITH DETECTION
MW-12	MONITORING WELL
WS-1	ABANDONED WATER SUPPLY WELL
R.C.P.	REINFORCED CONCRETE PIPE
ND	NOT DETECTED
NS	NOT SAMPLED
J	ESTIMATED CONCENTRATION
VOCs	VOLATILE ORGANIC COMPOUNDS
bgs	BELOW GROUND SURFACE
ug/Kg	ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM

SCALE IN FEET 0 120

FORMER DUCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.21

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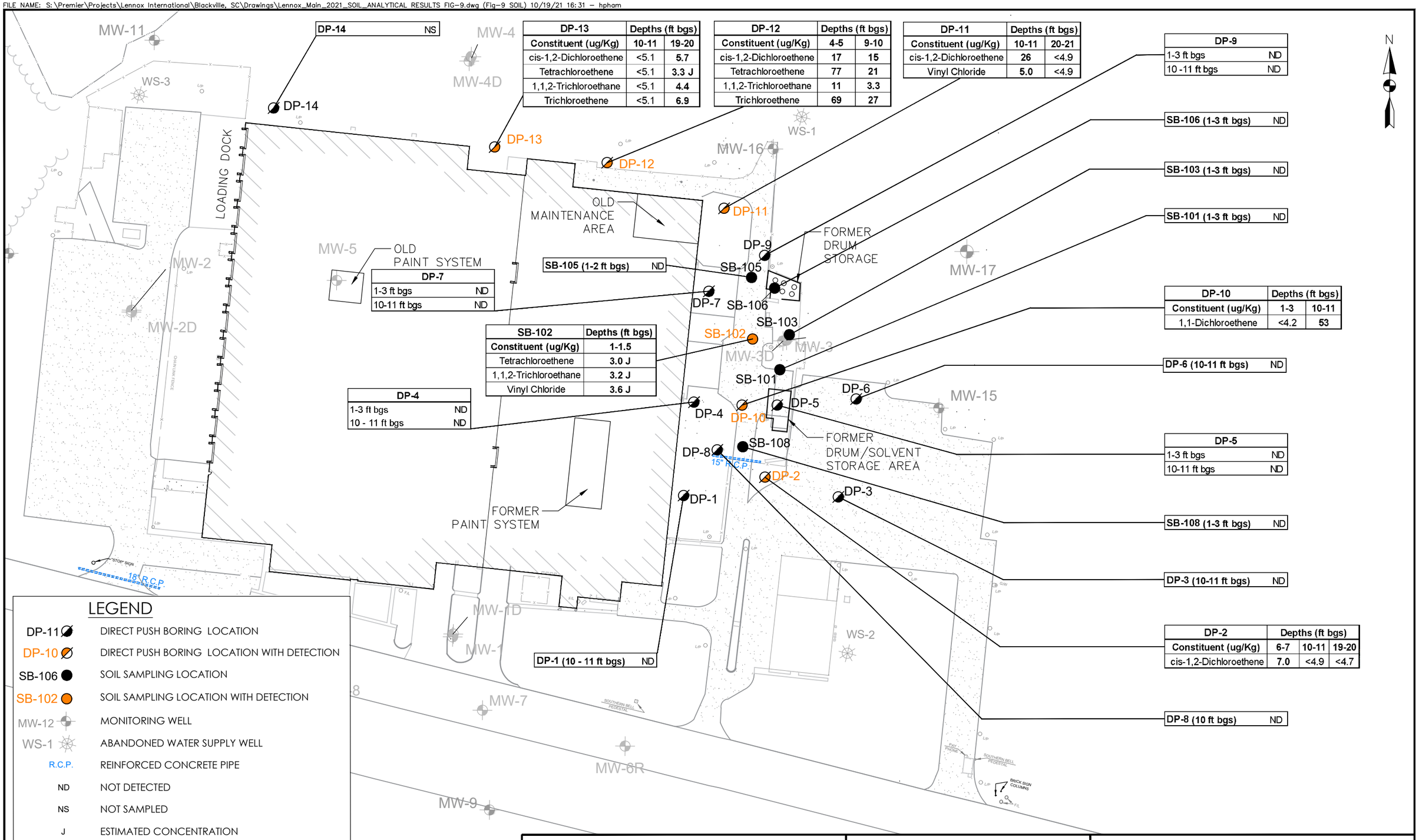
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

SOIL ANALYTICAL RESULTS AROMATIC HYDROCARBONS

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	MAB	10/14/2021	8

FILE NAME: S:\Premier\Projects\Lennox International\Blackville, SC\Drawings\Lennox_Main_2021_SOIL_ANALYTICAL RESULTS FIG-9.dwg (Fig-9 SOIL) 10/19/21 16:31 – hpham



DP-14	NS

DP-13	Depths (ft bgs)	
Constituent (ug/Kg)	10-11	19-20
cis-1,2-Dichloroethene	<5.1	5.7
Tetrachloroethene	<5.1	3.3 J
1,1,2-Trichloroethane	<5.1	4.4
Trichloroethene	<5.1	6.9

DP-12	Depths (ft bgs)	
Constituent (ug/Kg)	4-5	9-10
cis-1,2-Dichloroethene	17	15
Tetrachloroethene	77	21
1,1,2-Trichloroethane	11	3.3
Trichloroethene	69	27

DP-11	Depths (ft bgs)	
Constituent (ug/Kg)	10-11	20-21
cis-1,2-Dichloroethene	26	<4.9
Vinyl Chloride	5.0	<4.9

DP-9	
1-3 ft bgs	ND
10 -11 ft bgs	ND

DP-7	
1-3 ft bgs	ND
10-11 ft bgs	ND

SB-102	Depths (ft bgs)
Constituent (ug/Kg)	1-1.5
Tetrachloroethene	3.0 J
1,1,2-Trichloroethane	3.2 J
Vinyl Chloride	3.6 J

DP-4	
1-3 ft bgs	ND
10 - 11 ft bgs	ND

DP-10	Depths (ft bgs)	
Constituent (ug/Kg)	1-3	10-11
1,1-Dichloroethene	<4.2	53

DP-5	
1-3 ft bgs	ND
10-11 ft bgs	ND

DP-2	Depths (ft bgs)		
Constituent (ug/Kg)	6-7	10-11	19-20
cis-1,2-Dichloroethene	7.0	<4.9	<4.7

LEGEND

DP-11	DIRECT PUSH BORING LOCATION
DP-10	DIRECT PUSH BORING LOCATION WITH DETECTION
SB-106	SOIL SAMPLING LOCATION
SB-102	SOIL SAMPLING LOCATION WITH DETECTION
MW-12	MONITORING WELL
WS-1	ABANDONED WATER SUPPLY WELL
R.C.P.	REINFORCED CONCRETE PIPE
ND	NOT DETECTED
NS	NOT SAMPLED
J	ESTIMATED CONCENTRATION
VOCs	VOLATILE ORGANIC COMPOUNDS
bgs	BELOW GROUND SURFACE
ug/Kg	ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM

FORMER DUCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.21

EARTHCON® Member of WSP

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

SOIL ANALYTICAL RESULTS CHLORINATED VOCs

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	MAB	10/14/2021	9

FILE NAME: S:\Premier\Projects\Lennox International\Blackville, SC\Drawings\Lennox_Main_2021_GW_ANALYTICAL RESULTS FIG-10.dwg (Fig-10 GW) 10/20/21 10:42 - hpham

RETENTION POND

MW-11 (2-12 ft bgs) ND

MW-11

DP-14 (10 ft bgs) ND

MW-4 MW-4 (8-18 ft bgs) ND

MW-4D MW-4D (72-82 ft bgs) ND

WS-3

DP-14

DP-13 NS

DP-13

DP-12 (20 ft bgs)

Ethylbenzene	8.7
Xylenes (total)	86

MW-16 (10-20 ft bgs) ND

WS-1

MW-16

DP-12

DP-11 NS

DP-11

DP-9 (20 ft bgs) ND

MW-12 NS

MW-12

MW-13 NS

MW-13

MW-10 (2-12 ft bgs) ND

MW-10

LOADING DOCK

MW-5

OLD PAINT SYSTEM

OLD MAINTENANCE AREA

DP-9

FORMER DRUM STORAGE

MW-17 (20-30 ft bgs) ND

MW-17

SB-105

SB-106

SB-103

SB-102

SB-101

MW-2 (5-15 ft bgs) ND

MW-2

MW-2D

MW-14

MW-5 (15-20 ft bgs)

Ethylbenzene	2.7 J

DP-7 (20 ft bgs)

Ethylbenzene	3.0 J
Isopropylbenzene	2.7J
Xylenes (total)	8.4 J

DP-7

MW-3 (5-15 ft bgs)

Ethylbenzene	520
Toluene	190 J
Xylenes (total)	2300

MW-2D (39-44 ft bgs) ND

MW-3D (20-25 ft bgs) ND

MW-3D

MW-3

DP-10 (20 ft bgs) ND

DP-6 (20 ft bgs) ND

DP-6

MW-15

MW-15 (9-19 ft bgs) ND

MW-14 (2-12 ft bgs)

Toluene	8.2

DP-4 (20 ft bgs) ND

DP-4

DP-10

DP-5

FORMER DRUM/SOLVENT STORAGE AREA

DP-5 (20 ft bgs)

Ethylbenzene	16
Isopropylbenzene	690
Xylenes (total)	410

SB-108

DP-8

15" R.C.P.

DP-2

DP-1

DP-3

DP-3 (20 ft bgs) ND

DP-2 (16 ft bgs)

Toluene	0.46 J
Xylenes (total)	1.8

18" R.C.P.

"STOP" SIGN

FORMER PAINT SYSTEM

MW-1D

MW-1D (48-53 ft bgs) ND

MW-1

WS-2

MW-8 (2-12 ft bgs) ND

MW-8

DP-8 (20 ft bgs) ND

DP-1 (20 ft bgs) ND

MW-7

MW-1 (5-20 ft bgs)

Ethylbenzene	97 J
Xylenes (total)	400 J

MW-7 (2-12 ft bgs)

Ethylbenzene	7.4
Xylenes (total)	24

MW-6R (5-15 ft bgs) ND

MW-6R

SOUTHERN BELL PEDESTAL

PAY PHONE

LEGEND

DP-11	DIRECT PUSH BORING LOCATION
DP-7	DIRECT PUSH BORING LOCATION WITH DETECTION
SB-106	SOIL SAMPLING LOCATION
MW-12	MONITORING WELL
WS-1	ABANDONED WATER SUPPLY WELL
R.C.P.	REINFORCED CONCRETE PIPE
ND	NOT DETECTED
NS	NOT SAMPLED
J	ESTIMATED CONCENTRATION
VOCs	VOLATILE ORGANIC COMPOUNDS
ft bgs	FEET BELOW GROUND SURFACE
ug/L	ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER LITER
	VALUES WERE DETECTED ABOVE RSL or MCL

0 SCALE IN FEET 120

FORMER DUCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA

BLWM FILE # 401356

PROJECT NO. 02.20160378.21

EARTHCON® Member of WSP

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

GROUNDWATER ANALYTICAL RESULTS
AROMATIC HYDROCARBONS

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HVP	MAB	10/14/2021	10

FILE NAME: S:\Premier\Projects\Lennox International\Blackville, SC\Drawings\Lennox_Main_2021_GW_ANALYTICAL RESULTS FIG-11.dwg (Fig-11 GW) 10/20/21 10:50 - hpham

RETENTION POND

MW-11 (2-12 ft bgs) ND

DP-14 (10 ft bgs) ND

MW-11

MW-4

MW-4D

WS-3

DP-14

DP-13 NS

DP-13

MW-12 NS

MW-12

MW-13 NS

MW-13

MW-10 (2-12 ft bgs) ND

MW-10

MW-2 (5-15 ft bgs) ND

MW-2

MW-2D

MW-14

MW-14 (2-12 ft bgs) ND

MW-2D (39-44 ft bgs) ND

LOADING DOCK

MW-5

OLD PAINT SYSTEM

MW-5	(15-20 ft bgs)
1,1-Dichloroethane	4.7 J
1,1-Dichloroethene	2.4 J
cis-1,2-Dichloroethene	370 J
trans-1,2-Dichloroethene	3.7 J
Tetrachloroethene	120 J
Trichloroethene	210 J
Vinyl Chloride	8.8 J
1,4-Dioxane*	13

DP-4	(20 ft bgs)
1,1-Dichloroethene	0.70 J
cis-1,2-Dichloroethene	12
Tetrachloroethene	1.2
Trichloroethene	2.6

FORMER PAINT SYSTEM

MW-4	(8-18 ft bgs)
cis-1,2-Dichloroethene	8.7
Tetrachloroethene	4.2
1,1,2-Trichloroethane	0.93 J
Trichloroethene	6.9

MW-4D	(72-82 ft bgs)
1,1-Dichloroethene	0.47 J
Tetrachloroethene	19
Trichloroethene	0.73 J

DP-12	(20 ft bgs)
1,1-Dichloroethane	10
1,2-Dichloroethane	0.41 J
1,1-Dichloroethene	110
cis-1,2-Dichloroethene	120
trans-1,2-Dichloroethene	2.4
Tetrachloroethene	2100 J
1,1,1-Trichloroethane	1.6
1,1,2-Trichloroethane	280 J
Trichloroethene	5800 J
Vinyl Chloride	7.0

WS-1

MW-16

MW-16 (10 - 20. ft bgs) ND

DP-12

DP-11 NS

DP-11

OLD MAINTENANCE AREA

DP-7	(20 ft bgs)
1,2-Dichloroethane	1.2 J
1,1-Dichloroethene	0.79 J
cis-1,2-Dichloroethene	14 J
Tetrachloroethene	0.83 J
Trichloroethene	0.65 J
Vinyl Chloride	6.4 J
1,4-Dioxane*	1.6 J

DP-9

SB-105

DP-7

SB-106

SB-103

SB-102

MW-3

MW-3D

MW-3D (20-25 ft bgs) ND

SB-101

DP-6

DP-5

DP-4

DP-10

SB-108

DP-8

15" R.C.P.

DP-2

DP-1

DP-3

FORMER DRUM STORAGE

FORMER DRUM/SOLVENT STORAGE AREA

MW-17

MW-17 (20-30 ft bgs) ND

MW-15

MW-15 (9-19 ft bgs) ND

DP-9	(20 ft bgs)
cis-1,2-Dichloroethene	0.91 J
Vinyl Chloride	2.3
1,4-Dioxane	21

MW-3	(5-15 ft bgs)
1,1-Dichloroethane	1500
1,2-Dichloroethane	100 J
1,1-Dichloroethene	760
cis-1,2-Dichloroethene	24000
trans-1,2-Dichloroethene	210
Vinyl Chloride	1400
1,4-Dioxane	260

DP-10	(20 ft bgs)
1,1-Dichloroethene	7.2
cis-1,2-Dichloroethene	0.66 J
Vinyl Chloride	5.5
1,4-Dioxane*	1.6 J

DP-6	(20 ft bgs)
1,4-Dioxane	1.9 J

DP-5	(20 ft bgs)
cis-1,2-Dichloroethene	2.4 J
1,4-Dioxane	5.0

DP-3 (20 ft bgs) ND

DP-2	(16 ft bgs)
cis-1,2-Dichloroethene	52
trans-1,2-Dichloroethene	0.83 J
Trichloroethene	0.47 J
Vinyl Chloride	1.9

DP-8 (20 ft bgs) ND

DP-1	(20 ft bgs)
cis-1,2-Dichloroethene	13
Tetrachloroethene	1.5
Trichloroethene	4.2

18" R.C.P.

STOP SIGN

MW-1D

MW-1

MW-1	(5-20 ft bgs)
cis-1,2-Dichloroethene	1700
trans-1,2-Dichloroethene	8.1 J
Vinyl Chloride	64

MW-8 (2-12 ft bgs) ND

MW-8

MW-1D	(48-53 ft bgs)
cis-1,2-Dichloroethene	0.94 J
Tetrachloroethene	62
Trichloroethene	9.1

MW-7

MW-6R (5-15 ft bgs) ND

MW-6R

MW-7	(2-12 ft bgs)
cis-1,2-Dichloroethene	190
trans-1,2-Dichloroethene	0.71 J
Trichloroethene	0.69 J
Vinyl Chloride	21

WS-2

SOUTHERN BELL FEDERAL

PAY PHONE

LEGEND

DP-11	DIRECT PUSH BORING LOCATION
DP-9	DIRECT PUSH BORING LOCATION WITH DETECTION
SB-106	SOIL SAMPLING LOCATION
MW-12	MONITORING WELL
WS-1	ABANDONED WATER SUPPLY WELL
R.C.P.	REINFORCED CONCRETE PIPE
ND	NOT DETECTED
NS	NOT SAMPLED
J	ESTIMATED CONCENTRATION
VOCs	VOLATILE ORGANIC COMPOUNDS
ft bgs	FEET BELOW GROUND SURFACE
ug/L	ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER LITER
	VALUES WERE DETECTED ABOVE RSL or MCL

0 SCALE IN FEET 120

N

FORMER DUCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA

BLWM FILE # 401356

PROJECT NO. 02.20160378.21

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

GROUNDWATER ANALYTICAL RESULTS CHLORINATED VOCs AND 1,4-DIOXANE

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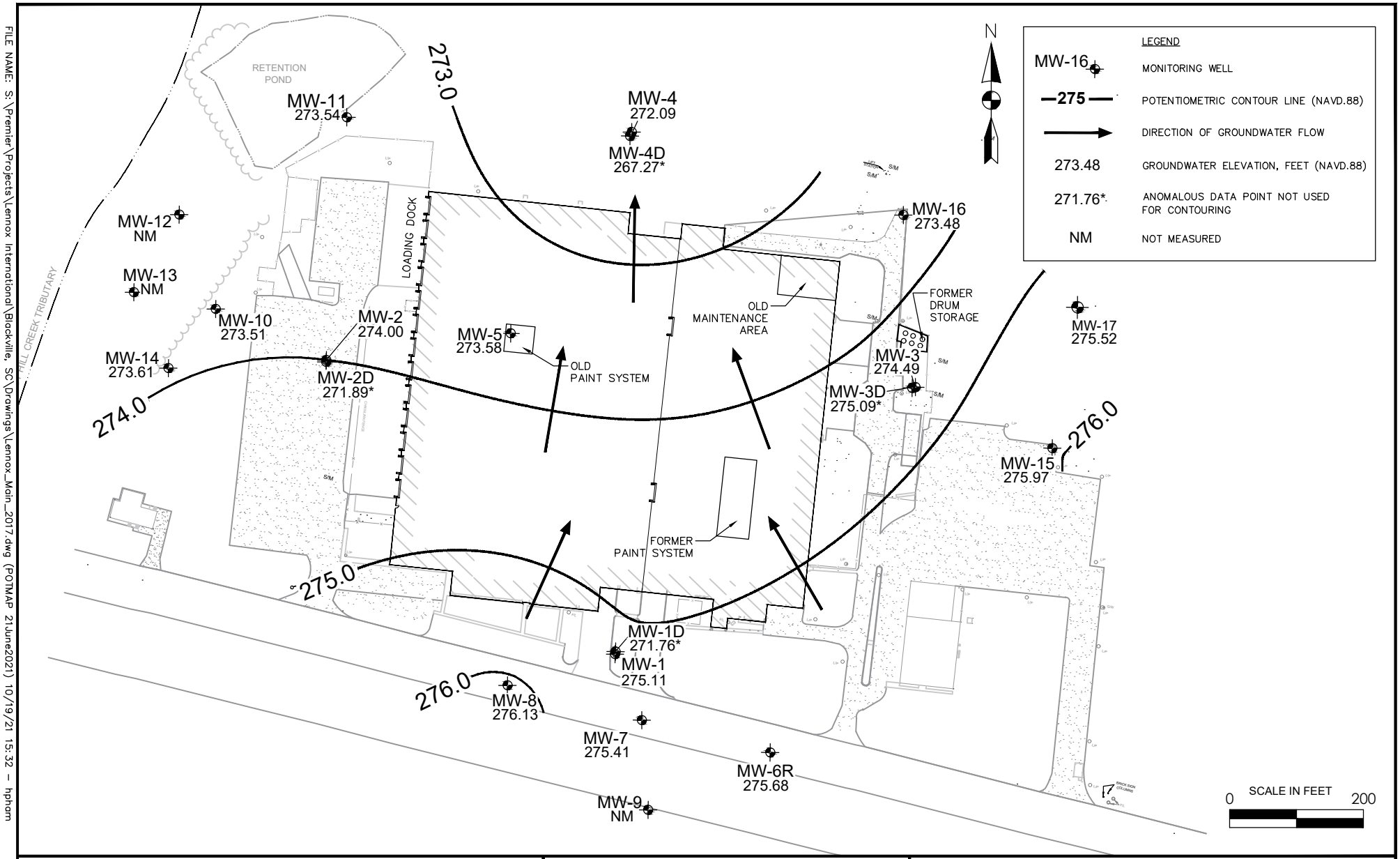
HVP	MAB	10/14/2021	11



FORMER DUNCANE COMPANY SITE

BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.21

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

POTENTIOMETRIC SURFACE MAP
JUNE 2021

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	CDN	OCTOBER 12, 2021	12

APPENDICES

Appendix A

Summary of Field Procedures – June 2021

APPENDIX A: SUMMARY OF FIELD PROCEDURES – JUNE 2021

A soil and groundwater sampling event was conducted in June 2021 at the Former Ducane Company Site. The field activities are described in the following sections. Soil boring logs are provided in Appendix B. Laboratory analytical reports are provided in Appendices C and D. Field sampling forms are provided in Appendix E.

ADDITIONAL SOIL AND GROUNDWATER DELINEATION

Twenty (20) borings were advanced at the site from June 22 to June 25 to provide additional delineation of soil and groundwater at the facility (Figure 2). Fourteen (14) of the borings (DP-1 through DP-14) were advanced for the collection of soil and groundwater samples. Six (6) of the eight (8) planned soil borings (SB-101 to SB-108) were advanced for the collection of soil samples only. Borings SB-104 and SB-107 were not drilled due to lack of access to a heavily wooded area of the property.

Borings DP-1 through DP-14 were advanced using a Sonic rig to a depth of 20 feet below ground surface (bgs). Soil borings SB-101, SB-102, SB-103, SB-105, SB-106 and SB-108 were advanced using the Sonic rig to 3 feet bgs except for sample SB-102 and SB-105, where saturated soils were observed at a more shallow depth. Table 1 provides the depths of the soil samples collected from the borings. Soil samples were collected continuously from ground surface to boring termination, logged for lithologic descriptions, and screened using a photoionization detector (PID). The work plan indicated that groundwater samples would be collected from each of the 14 borings at depths of 10 and 20 feet bgs. If elevated PID readings were noted in the saturated zone at an alternate depth, one additional groundwater sample would be collected at the location of the highest PID reading. However, field observations from several borings indicated a zone of highly compacted clay and sandy clay that did not produce water. The scope was modified to collect a soil sample if groundwater could not be collected. With the exception of boring DP-14 where groundwater was observed at the 10-foot interval, soil samples were collected at 10 feet bgs. Groundwater samples were collected at 20 feet bgs from each of the borings except DP-2, DP-11, DP-13 and DP-14. Soil samples were collected at 20 feet bgs from DP-2, DP-11 and DP-13. No sample was collected at 20 feet bgs from DP-14 for chemical analysis. The soil samples were placed in laboratory-supplied containers and transported, under chain-of-custody protocols, to Pace Analytical Services, LLC (SCDHEC Certification No. 32010001) in Columbia, SC (Pace). The soil samples were analyzed for VOCs using EPA Method 8260D.

Groundwater samples were collected from the borings by advancing the rods to the desired depth, retracting the sheath and rod, and collecting a groundwater sample from the screen. A peristaltic pump and polyethylene tubing were used to collect the groundwater samples. The groundwater samples were collected from the intake end of the dedicated polyethylene discharge tubing after the peristaltic pump was stopped and the tubing was removed from the borehole. Groundwater samples were not collected from borings DP-11 or DP-13 because groundwater was not observed

in these borings. Because groundwater was observed at a more shallow depth in boring DP-14, a groundwater sample was collected at 10 feet bgs. Table 2 provides the depths of the groundwater samples from the soil borings. The groundwater samples were placed in laboratory-supplied containers and transported, under chain-of-custody protocols, to Pace where they were analyzed for VOCs using EPA Method 8260D and 1,4-dioxane using EPA Method 8260D SIM. The samples were also analyzed for dissolved gases (methane, ethane, ethane and propane) using Method RSK-175.

NATURAL OXIDANT DEMAND TESTING

To evaluate potential in-situ chemical oxidation remedial technologies, one soil and groundwater sample were collected from a presumed unimpacted areas of the site and another soil and groundwater sample were collected from an impacted area of the site. The samples were analyzed for natural oxidant demand (NOD) by PeroxyChem, an Evonik Company laboratory. The analytical results are provided in Appendix D.

GROUNDWATER SAMPLING

Comprehensive Groundwater Sampling Event

A groundwater sampling event was conducted from June 22 to June 25, 2021 and 18 of the 21 Site monitoring wells were sampled. Monitoring wells MW-12 and MW-13 could not be located while monitoring well MW-9 is located on private property and access could not be obtained. Well construction details are provided in Table 4.

Groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Laboratory Services and Applied Science Division (LSASD) Operating Procedure (OP) for *Groundwater Sampling* (as updated) using low-flow techniques. Prior to sampling, water level measurements were collected from each well and water quality parameters were measured. Water level measurements are presented in Table 5. The field parameters measured at the time of groundwater sampling are provided on the field forms in Appendix E and presented in Table 6.

Sample Containers

The laboratory provided sample containers that met the sampling requirements of the study. The laboratory verified the cleanliness of each batch of containers prior to use. The laboratory supplied the necessary preservation solutions and shipped these with the sample containers.

The field samplers took responsibility for properly identifying the location of each sample taken and for recording the sample date, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field sampler determined that additional

information was pertinent to a sample being taken, such data was recorded in the field book or on the field form.

Groundwater Level Measurement

Prior to well sampling, depth to groundwater and total well depth were measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on each well to serve as a reference point for measurement. Depths were measured to the nearest 0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free laboratory detergent and water and rinsed with distilled water prior to each use.

Well Purging

The monitoring wells were purged using a low flow/low volume method with a peristaltic pump and dedicated, disposable, polyethylene tubing. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured during purging.

Purging continued until a minimum of three consecutive stable readings were measured with five to fifteen-minute intervals between readings. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells.

Purging was considered complete after the depth to water and water quality parameters stabilized. Purge water from the wells was temporarily placed in five-gallon buckets and emptied into a 55-gallon steel drum. Additional information regarding the purging and sampling activities including the volume of water in each well, purge rate, and depth to water during the purge process are provided in the field sampling forms in Appendix E.

Groundwater Sampling and Analysis

Groundwater samples were collected after the water level in the well stabilized and after the pH and specific conductance measurements stabilized. A peristaltic pump and polyethylene tubing were used to collect the groundwater samples. The groundwater samples were collected from the intake end of the dedicated polyethylene discharge tubing after the peristaltic pump was stopped and the tubing was removed from the well. The groundwater samples were placed into laboratory supplied pre-preserved containers, labeled, and recorded on a Chain-of-Custody form. The containers were then placed in a cooler on ice, and transported to Pace .

The groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260D and 1,4-dioxane using EPA Method 8260D SIM. Groundwater samples were also analyzed for the monitored natural attenuation (MNA) parameters nitrate, sulfate, sulfide, chloride, alkalinity, total organic carbon (TOC) and dissolved gasses (ethane, ethene, methane and propane). Field measurements of ferrous iron were also collected. A summary of the organic analytical results is provided in Table 2 while the MNA results are provided in Table 7. The laboratory analytical reports are provided in Appendix C.

Well Evaluation MW-1D and MW-4D

To evaluate the vertical distribution of contaminants in wells MW-1D and MW-4D, dual membrane passive diffusion samplers (PDS) were installed on June 1, 2021 in well MW-1D at depths of 16.2 and 36.2 feet below top of casing (bTOC) and in well MW-4D at depths of 16, 36, and 56 feet bTOC. The PDS could not be lowered to the deeper interval (80 feet) originally planned due to refusal. The PDS were allowed to equilibrate for a minimum of 3 weeks. The PDS were then retrieved, and groundwater samples collected on June 21, 2021.

The groundwater samples were placed in laboratory-supplied containers and transported, under chain-of-custody protocols, to Pace where they were analyzed for VOCs using EPA Method 8260D and 1,4-dioxane using EPA Method 8260D SIM. The samples were also analyzed for dissolved gases (methane, ethane, ethane and propane) using Method RSK-175. The analytical results are provided in Table 3 and the laboratory reports are provided in Appendix C.

Decontamination Procedures

Decontamination procedures consisted of the use of dedicated, disposable tubing at each sampling location. Equipment such as the water level indicator and field measurement instrumentation were cleaned with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA Region 4 LSASD Operating Procedure for *Field Equipment Cleaning and Decontamination* (as updated). The equipment was allowed to air dry. Nitrile gloves were also worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included a Hanna HI98703 turbidity meter and a YSI PRODSS with flow thru cell meter to measure pH, specific conductivity, temperature, dissolved oxygen, ORP, and turbidity. Equipment calibration was verified daily.

Field Sampling Forms

Field personnel maintained a permanently bound, water resistant field notebook. Field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each groundwater sample from the monitoring wells (excluding the vertical delineation samples). The notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

Sample custody was documented from the time of sample collection when the labeled sample was placed into an iced cooler in the possession of the sampling technician. A corresponding line item on the chain-of-custody record was filled out and initialed by the sampling technicians. The chain-of-custody record is used to track custody of samples during transport and shipping. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information

contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record with the exceptions of samples EB-01-062421 and DP-04-10-11-SS, which were received by the laboratory but not listed on the chain-of-custody record. These samples were added for laboratory testing. Furthermore, sample DP-10(10-11)-SS was recorded on the chain-of-custody record but not received by the laboratory. The sample was submitted on a later date.

Analytical Procedures and QA/QC

Soil and groundwater samples were transported to Pace under chain-of-custody protocols. The samples were analyzed for VOCs by EPA Method 8260D and 1,4-dioxane by EPA Method 8260D SIM. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also collected and analyzed for these parameters. The data validation summary and laboratory analytical reports are provided in Appendix C.

Appendix B

Soil Boring Logs

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SOIL BORING LOG

BORING NUMBER:
DP-1

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554356.09
EASTING (SC State Plane):	1915527.04
GROUND ELEV (ft. NAVD88):	278.51

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.472	SM				SILTY SAND dark olive/ tan	
2		0.567						
3		0.391						moist
4		0.138	OH				CLAY dark olive	
5		0.272						dry
6		0.189					CLAY light grey/orange high plasticity, high compaction	
7		0.093	OH					
8		0.209						
9		1.591						
10		0.392						10-11' no GW soil sample taken
11		4.081					SANDY CLAY light grey/orange high plasticity, high compaction	
12		1.002						
13		1.089	OH					
14		2.181						dry
15		0.889						
16		4.614						
17		1.3	SC				CLAYEY SAND lense, light grey/ orange streaks	moist
18		0.347					SANDY CLAY, light grey/ orange streaks high plasticity/ high compaction	
19		1.062	OH					dry
20		2.141						20-21' GW sample
21								
22								

Note: Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-2

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W Main St, Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554380.80
EASTING (SC State Plane):	1915636.37
GROUND ELEV (ft. NAVD88):	275.73

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		2.451	SM				SANDY SILT, dark olive	
2		1.568						
3		2.178						
4		3.281						wet
5		4.627	OH				SANDY CLAY, light grey/orange streak, high plasticity/ high compaction	
6		0.945						6-7' soil sample
7		7.621						
8		2.772						
9		0.824						dry
10		0.659						10-11' no GW, soil sample
11		0.832						
12		1.343						
13		0.983	SM				SILTY SAND, tan/light grey, loose/no compaction	
14		1.361						
15		2.828						wet
16		1.789						16-17' GW sample
17		1.892	OH				SANDY CLAY, light grey/orange streaks, high plasticity/ high compaction	
18		2.807						
19		2.117						dry
20		3.789						19-20' soil sample
21								
22								

Note: GW DUP
DP-DUP1-GW is from DP2 16-17'
Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-3

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W Main St, Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554354.25
EASTING (SC State Plane):	1915734.97
GROUND ELEV (ft. NAVD88):	278.08

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.780	SM				SANDY SILT, dark olive, low plasticity/ low compaction	
2		1.239						Septic odor
3		4.785						
4		1.208	OH				CLAY, olive, high plasticity/ high compaction	wet
5		4.682						
6		13.55						dry
7		2.442						
8		2.653	OH				CLAY with sand, olive/ orange streaks, high plasticity/ high compaction	
9		4.623						
10		14.80						10-11' no GW, took soil sample
11		8.068						
12		19.79						
13		4.234						
14		7.111						
15		2.019						
16		4.008						
17		2.364						
18		2.784						
19		1.624						
20		11.48						20-21' wet GW sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-4

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554481.58
EASTING (SC State Plane):	1915540.87
GROUND ELEV (ft. NAVD88):	276.41

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.247	SM				SANDY SILT, dark olive	1-3' soil sample
2		0.637						moist
3		0.389	OH				CLAY, olive/tan/orange, high plasticity/high compaction	
4		0.107						
5		1.382	OH				CLAY, dark olive, high plasticity/high compaction	
6		2.111						dry
7		0.818	OH				SANDY CLAY, light grey/orange, moderate plasticity and compaction	
8		0.637						
9		3.827						
10		20.56						10-11' no GW, soil sample
11		3.354						
12		0.928						
13		3.854						
14		4.126						
15		0.954						
16		1.147						
17		3.965						wet
18		0.972	SP				SAND, tan with few fines	
19		0.719	OH				SANDY CLAY, light grey/orange streaks, moderate plasticity and moderate compaction	
20		4.752						20-21' GW sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-5

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554477.69
EASTING (SC State Plane):	1915652.77
GROUND ELEV (ft. NAVD88):	276.72

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		232.8	SP				Concrete	
2		480.3					SAND, olive green, fine grained	1-3' soil sample
3		1086						strong solvent odor; fill likely
4		872.1	SM				SANDY SILT, black	wet
5		4.586						
6		2.500						
7		1.636	OH				SANDY CLAY, light grey/orange streaks, high plasticity/high compaction	
8		5.736						
9		10.03						
10		10.84						10-11' no GW soil sample
11		44.4						dry
12		48.2						
13		64.91						
14		14.26						
15		8.867						
16		0.894						
17		1.718						
18		3.401	SP				SAND, some clay, light grey/orange	wet
19		10.16						
20		55.98						20-21' GW sample
21								
22								

Termination of boring at 20' BGS
GW at 18' to 21' BGS was artesian, came to 3" above ground

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SOIL BORING LOG

BORING NUMBER:
DP-6

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554485.88
EASTING (SC State Plane):	1915759.03
GROUND ELEV (ft. NAVD88):	278.44

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		2.250	SM				SANDY SILT, olive/dark olive	
2		2.943						
3		1.731	SP				SAND, olive/tan, fine grained, loose	
4		0.170	OH				SANDY CLAY, olive	
5		0.709						
6		0.381					CLAY, some sand, light grey/orange streaks, high plasticity/high compaction	
7		1.101						
8		10.02						
9		2.245						dry
10		9.821	OH					10-11' no GW soil sample
11		0.573						
12		2.910						
13		0.590						
14		1.158					CLAY, olive, high plasticity/high compaction	
15		1.348	OH					
16		2.070						
17		0.138					CLAYEY SAND, light grey/orange, loose, low compaction	
18		1.508	SC					
19		1.723						wet
20		2.103						20-21' GW sample
21		2.966						
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-7

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554630.61
EASTING (SC State Plane):	1915560.99
GROUND ELEV (ft. NAVD88):	275.98

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1							Concrete	
		3.575	SP				SAND, tan, fine/ few fines	1-3' soil sample
2		4.551						wet
3		0.706					CLAY, grey/orange/olive, high plasticity/ high compaction	dry
4		2.151	OH					
5		4,384						
6		7.008						
7		8.004					SANDY CLAY, light grey/orange streaks, high compaction/ high plasticity	
8		13.38						
9		6.143						
10		15.82						10-11' soil sample
11		17.02						
12		3.406	OH					
13		7.856						
14		18.87						dry
15		1.436						
16		2.780						
17		3.090	SP				SAND, white/orange, few fines	
18		4.113					CLAYEY SAND, white/orange streaks	wet
19		2.407	SC					
20		1.997						20-21' GW sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-8

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554417.51
EASTING (SC State Plane):	1915572.26
GROUND ELEV (ft. NAVD88):	not available

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		1.391	SM				SANDY SILTY, dark olive	
2		0.008						moist
3		0.012	OH				CLAY, dark olive/tan, high compaction and high plasticity	
4		0.135						
5		0.781						
6		0.788						
7		2.567	OH				SANDY CLAY, light grey/orange streaks, light compaction and light plasticity	dry
8		1.167						
9		1.191						
10		0.098						10-11' no GW soil sample
11		0.039	OH				SANDY CLAY, light grey/orange streaks, moderate plasticity and moderate compaction	
12		0.645						
13		0.540						
14		0.154						
15		0.387	SC				CLAYEY SAND, light grey/orange streaks, fine grained, moderate compaction and low plasticity	
16		0.313						
17		0.024						moist
18		0.044						
19		0.136						
20		0.457						20-21' GW sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-9

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554678.93
EASTING (SC State Plane):	1915635.94
GROUND ELEV (ft. NAVD88):	275.58

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.373	SP				Concrete	
2		3.067					SILTY SAND, olive	1-3' soil sample
3		0.522						wet
4		0.558	OH				CLAY, grey/dark olive, moderate plasticity and moderate compaction	
5		2.721						
6		4.013						
7		2.793	OH				SANDY CLAY, light grey/orange streaks	
8		1.835						
9		3.743						
10		5.691						10-11' no GW soil sample
11		3.891						
12		0.210	OH				SANDY CLAY, white, high plasticity and high compaction	
13		0.835						
14		0.515						
15		1.785						
16		7.094						
17		1.0244	SP				SAND, tan/light grey, fine grained/few fines, loose	wet
18		1.378	OH				SANDY CLAY, light grey/orange	
19		1.011						
20		3.267						20-21' GW sample
21								
22								

DUP2 is DP DUP2-SO-(1-3)
DP-9 soil 1-3'
Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-10

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554477.62
EASTING (SC State Plane):	1915605.48
GROUND ELEV (ft. NAVD88):	not available

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1							Asphaslt	
2		3.106	SP				SAND, tan/olive, fine grained, loose	1-3' soil sample
3		0.385						likely fill
4		20.44	SM				SANDY SILT, dark olive, loose, low compaction	moist
5		4.921	OH				SANDY CLAY, light grey, light compaction and plasticity	wet
6		1.627						
7		1.604						
8		0.835						
9		1.564						
10		0.702						
11		6.961						10-11' no GW soil sample
12		3.048						
13		3.602						
14		4.007						
15		1.698						dry
16		1.117						
17		3.267						
18		4.002	SP				SAND, tan, few fines	moist
19		9.621	OH				SANDY CLAY, tan/light grey	
20		4.304	SP				CLAYEY SAND, tan/light grey, moderate compaction/low plasticity	wet
21		3.078						20-21' GW sample
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-11

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554742.19
EASTING (SC State Plane):	1915581.35
GROUND ELEV (ft. NAVD88):	276.01

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.093	SC				SANDY SILT, tan/dark olive, moderate compaction	
2		0.076						
3		0.185	OH				CLAY, grey/dark olive, moderate compact/ moderate plasticity	moist
4		0.583						
5		2.009						
6		0.845						
7		6.806						dry
8		1.069	OH				SANDY CLAY, light grey, high plasticity/ high compaction	
9		4.029						
10		5.263						10-11' no GW soil sample
11		0.342						
12		2.110						
13		2.494	PT				Degraded wood/tree	
14		10.77	OH				SANDY CLAY, olive, high compaction/ high plasticity	
15		5.202						
16		5.608						
17		1.448	OH				SANDY CLAY, light grey/orange streaks	
18		4.857						
19		4.311						
20		8.650						20-21' no GW soil sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-12

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554803.58
EASTING (SC State Plane):	1915424.13
GROUND ELEV (ft. NAVD88):	275.69

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/23/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.156	SM				SANDY SILT, olive/tan	
2		3.124	SC				CLAYEY SAND, tan/orange, fine grained	moist
3		4.781	OH				CLAY, red/olive, high plasticity/ high compaction	
4		52.7						4-5' no GW soil sample
5		102.3						
6		29.72						dry
7		7.921						
8		12.32	SC				CLAYEY SAND, olive/tan, fine grained, high compaction	
9		58.7	OH				CLAY, olive/tan, high plasticity/ high compaction	
10		124.9						9-10' no GW soil sample
11		57.7						
12		100.4						
13		84.7	OH				CLAY, grey/orange, moderate plasticity/ moderate compaction	
14		38.62						
15		45.82						
16		13.801						
17		5.827						
18		9.78	SC				CLAYEY SAND, tan/grey, loose, low plasticity/ low compaction	
19		15.19						wet
20		7.206						20-21' GW sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-13

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554824.68
EASTING (SC State Plane):	1915273.03
GROUND ELEV (ft. NAVD88):	278.70

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/23/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.156	SM				SANDY SILT, brown/olive, loose	
2		0.215	OH				CLAY, some sand, brown, low plasticity/ low compaction	
3		0.945						wet
4		0.817						
5		0.115	OH				CLAY, tan/orange/olive, high plasticity	dry
6		3.101						
7		3.740	OH				CLAY, some sand, white/olive, high plasticity/ high compaction	
8		2.841						
9		3.948						
10		8.721						10-11' no GW dry after 30 min soil sample
11		3.760	SC				SAND, some clay, white/tan	
12		1.530	OH					
13		1.340					CLAY, white/olive, high plasticity/ high compaction	
14		4.601						
15		2.330						
16		5.311	SC				SAND lense, fine grained, tan	
17		8.941	OH				CLAY, olive/tan, high plasticity/ high compaction	
18		0.904						
19		4.735						
20		8.820						19-20' dry no GW after 30 min soil sample
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
DP-14

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554877.10
EASTING (SC State Plane):	1914975.80
GROUND ELEV (ft. NAVD88):	277.00

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0								
1		0.514	SM				SANDY SILT with clay, olive/tan	
2		1.321						wet
3		1.812	OH				CLAY, tan/orange, high plasticity/ low compaction	
4		2.127						
5		2.345						dry
6		0.803						
7		0.486	SM				SANDY SILT, loose, grey	
8		0.578	OH				CLAY, olive/orange/tan, high plasticity/ high compaction	
9		1.825						wet
10		2.340	SC				CLAYEY SAND, white/olive, high compaction	10-11' GW sample
11		0.703						
12		1.018						
13		1.713	OH				CLAY, tan/orange/olive, high plasticity/ high compaction	
14		4.110						
15		3.015						dry
16		0.115						
17		0.735	OH				CLAY, white/olive, high plasticity/ high compaction, some sands	
18		4.015						
19		3.931						
20		2.780						20-21' no GW sample dry after 30 min
21								
22								

Termination of boring at 20' BGS

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SOIL BORING LOG

BORING NUMBER:
SB-101

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554525.18
EASTING (SC State Plane):	1915656.31
GROUND ELEV (ft. NAVD88):	277.03

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Hand auger
DRILLING EQUIPMENT:	
INSTALLATION DATE:	6/25/2021
BOREHOLE DIAMETER (in):	3.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0							SILTY SAND, olive/tan, fine grained, loose/low compaction	
1		0.817	SM					
2		3.261						1-3 soil sample
3		2.897					Concrete	
4								
5								

This was the 5th hand auger attempt, starting at original SB-101 and moving East to the fence. No odor was noticed at any location. Took sample at East SB-101 boring attempt about 5' off fence. Below grade concrete may be part of concrete vault for drainage/water line/sewer system in the same area. Kept hitting concrete about 3-4' BGS.

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SOIL BORING LOG

BORING NUMBER:
SB-102

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554566.45
EASTING (SC State Plane):	1915619.83
GROUND ELEV (ft. NAVD88):	277.80

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0							Asphalt, crush-n-run (57 m)	
1		0.456					SILTY SAND, olive	1-1.5 soil sample
2		1.786						
3		2.155	SM					wet
4		1.886						
5		2.432						
6								

Termination of boring at 5' BGS
6.25.21 DTW @ 1'5"

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SOIL BORING LOG

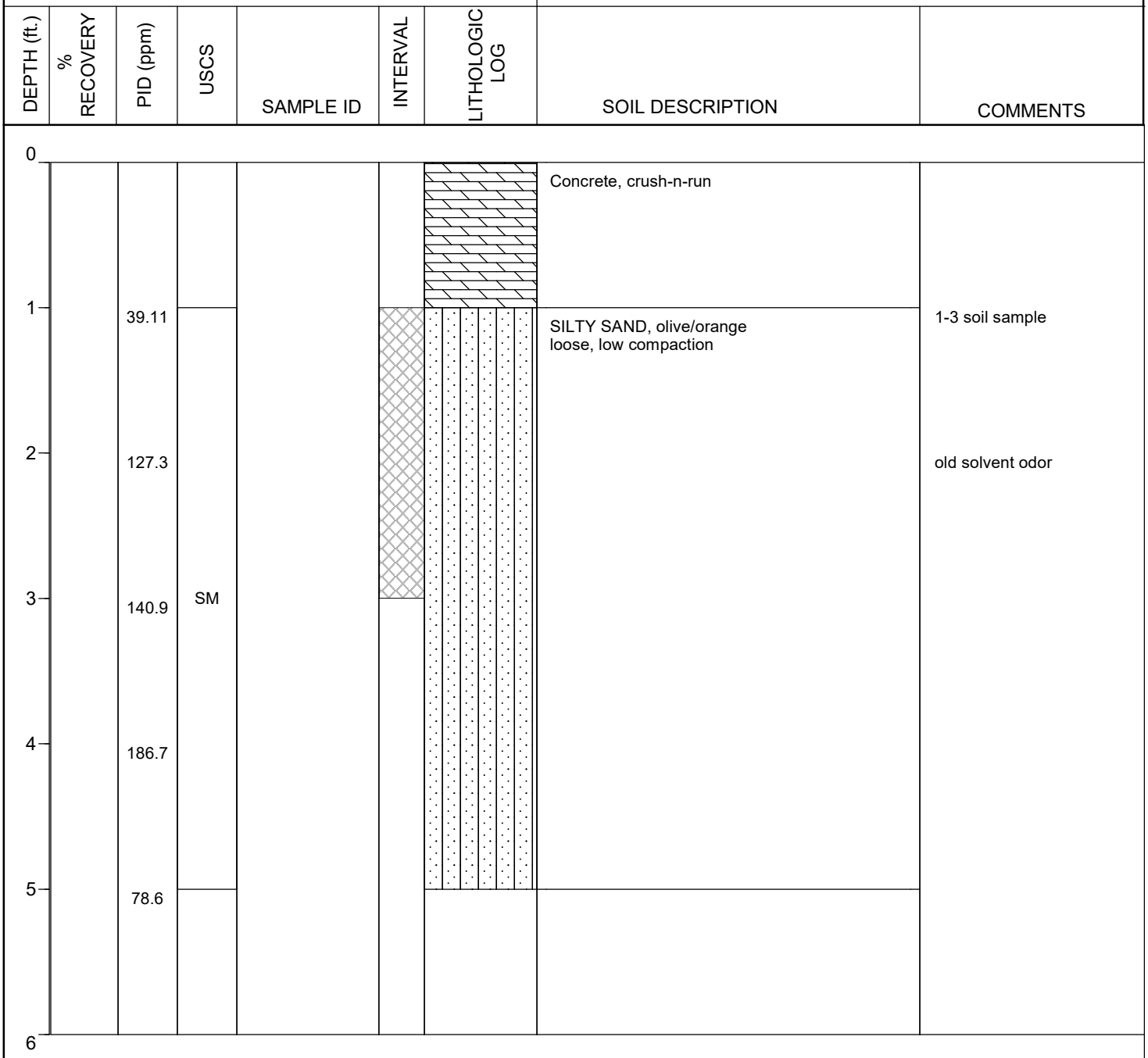
BORING NUMBER:
SB-103

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554572.18
EASTING (SC State Plane):	1915669.12
GROUND ELEV (ft. NAVD88):	276.99

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25



Termination of boring at 5' BGS
6.25.21 DTW @ 3'1"
Old solvent odor in soils

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SOIL BORING LOG

BORING NUMBER:
SB-105

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554649.20
EASTING (SC State Plane):	1915618.38
GROUND ELEV (ft. NAVD88):	275.86

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0							Asphalt, crush-n-run	
1		7.231	SM				SILTY SAND	1-2' soil sample
2		10.121						
3		12.72						wet
4		6.120	OH				CLAY, olive/light grey, high plasticity/ high compaction	dry
5		3.132						
6								

Termination of boring at 5' BGS
6.25.21 DTW @ 2'3"

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SOIL BORING LOG

BORING NUMBER:
SB-106

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554634.92
EASTING (SC State Plane):	1915649.29
GROUND ELEV (ft. NAVD88):	276.28

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25

DEPTH (ft.)	% RECOVERY	PID (ppm)	USCS	SAMPLE ID	INTERVAL	LITHOLOGIC LOG	SOIL DESCRIPTION	COMMENTS
0							Concrete, crush-n-run	
1		0.923	SM				SILTY SAND, olive/tan, loose, low compaction	1-3' soil sample
2		3.124						
3		2.076						wet
4		0.941						
5		0.870						
6								

Termination of boring at 5' BGS
6.25.21 DTW @ 1'8"

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SOIL BORING LOG

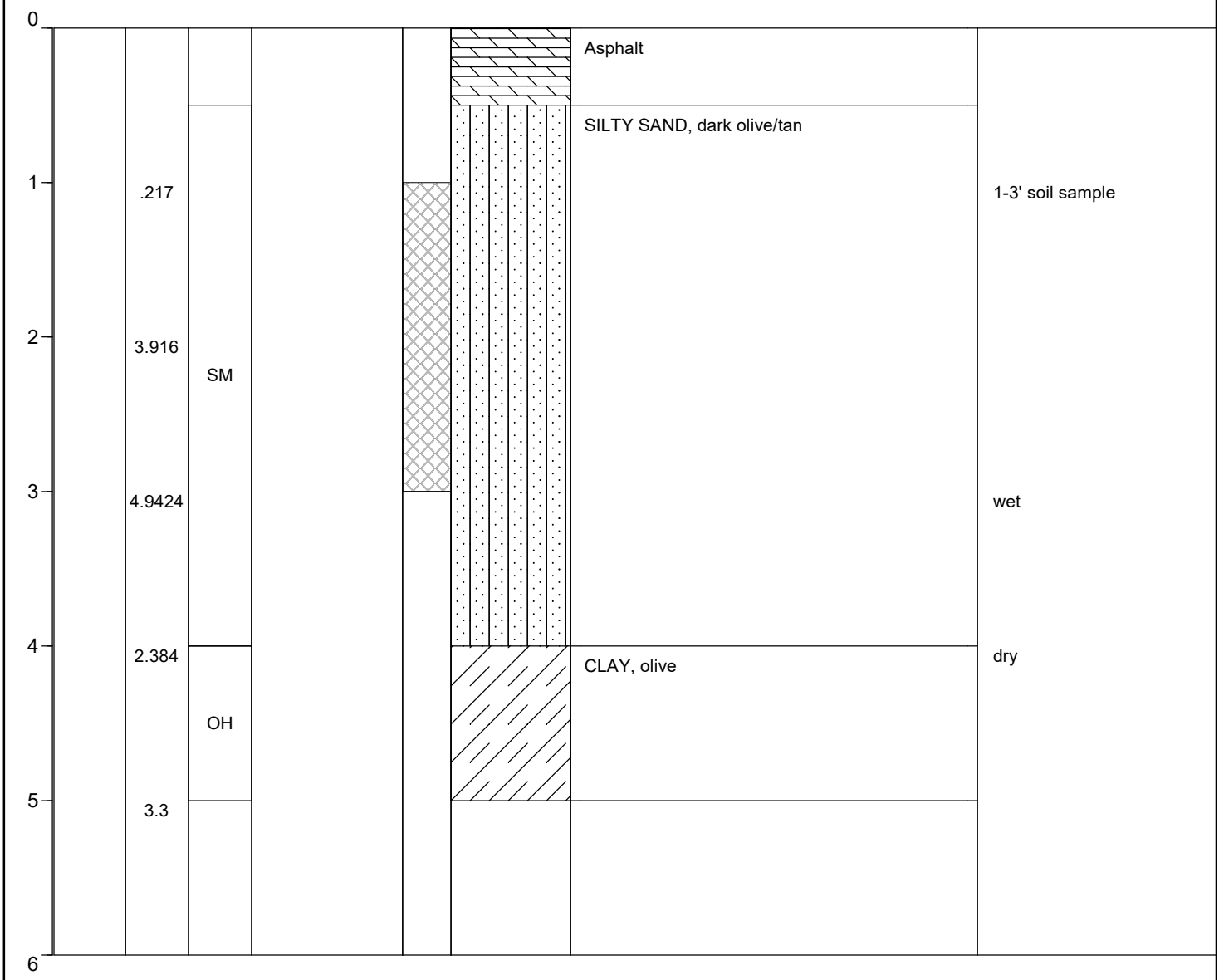
BORING NUMBER:
SB-108

PROJECT INFORMATION

PROJECT:	Lennox International
SITE LOCATION:	118 W. Main St., Blackville, SC
PROJECT NUMBER:	02.20160378.21
PROJECT MANAGER:	Carol Northern
LOGGER:	Steve Tyler
NORTHING (SC State Plane):	554421.62
EASTING (SC State Plane):	1915606.64
GROUND ELEV (ft. NAVD88):	277.06

DRILLING INFORMATION

DRILLING COMPANY:	Cascade Drilling
DRILLERS:	Richard A. Mooney, B 1435
DRILLING METHOD:	Sonic
DRILLING EQUIPMENT:	TSI CC-150
INSTALLATION DATE:	6/24/2021
BOREHOLE DIAMETER (in):	8.25



Termination of boring at 5' BGS
6.25.21 DTW @ 3'2"

Appendix C

Data Validation Summary and Laboratory Analytical Results – June 2021

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EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia, 30062

P: 770-973-2100
F: 770-973-7395
www.earthcon.com

MEMORANDUM

DATE:	July 23, 2021
TO:	Carol Northern, EarthCon Consultants
FROM:	Mary Ann Brookshire
SUBJECT:	Quality Assurance Review
PROJECT:	Lennox International
SAMPLING DATES:	June 21 to 25, 2021
PROJECT NUMBER:	02.20160378.21

1.0 Introduction

This quality assurance review presents the cursory validation of the sample analyses listed in Table 1. The analyses were performed by Pace Analytical Services, LLC., formally Shealy Environmental Services, Inc., located in West Columbia, South Carolina.

The criteria used to qualify data are from the *Contract Laboratory Program National Functional Guidelines for Inorganic and Organic Data Review* (USEPA 2010 and 2008), the analytical methods, or the professional judgment of the validation chemist. The following laboratory deliverables were reviewed during the validation process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, laboratory control samples (LCS), matrix spike/matrix spike duplicates (MS/MSD), and laboratory duplicates
- Analytical results to verify reporting limits
- Field QC samples to assess field blank contamination and field duplicate precision

The qualified data are summarized in Section 6 of this memorandum. Data qualifier flags have been added to the attached sample results and database files.

Table 1—Sample Data Reviewed

Sample ID	Laboratory ID	VOA[a]	Dissolved Gases[b]	General Chem[c]
MW-01D-16.2'	WF22061-001	X	X	
MW-01D-36.2'	WF22061-002	X	X	
MW-04D-16'	WF22061-003	X	X	
MW-04D-36'	WF22061-004	X	X	
MW-04D-56'	WF22061-005	X	X	
MW-2	WF22061-006	X	X	X
MW-2D	WF22061-007	X	X	X
MW-15	WF22061-008	X	X	X
MW-16	WF22061-009	X	X	X
MW-17	WF22061-010	X	X	X
MW-8	WF22061-011	X	X	X
MW-7	WF22061-012	X	X	X
TRIP BLANK	WF22061-013	X		
MW-3	WF23091-001	X	X	X
MW-3D	WF23091-002	X	X	X
MW-6R	WF23091-003	X	X	X
MW-01	WF23091-004	X	X	X
DUP-01	WF23091-005	X	X	X
MW-10	WF23091-006	X	X	X
TRIP BLANK 1	WF23091-007	X		
TRIP BLANK 2	WF23091-008	X		
MW-4	WF25024-001	X	X	X
MW-14	WF25024-002	X	X	X
MW-11	WF25024-003	X	X	X
MW-5	WF25024-004	X	X	X
TB-1	WF25024-005	X		
DP-2-SO (10-11)	WF25024-006	X		
DP-2-SO (19-20)	WF25024-007	X		
DP-13-SO (10-11)	WF25024-008	X		
DP-13-SO (19-20)	WF25024-009	X		
DP-2-SO (6-7)	WF25024-010	X		
DP-12-SO (4-5)	WF25024-011	X		
DP-6-SO (10-11)	WF25024-012	X		
DP-12-SO (9-10)	WF25024-013	X		
DP-3-SO (10-11)	WF25024-014	X		
TB-2	WF25024-015	X		
DP-2-16/17-GW	WF25024-016	X	X	
DP-DUP1-GW	WF25024-017	X	X	
DP-3-20-GW	WF25024-018	X	X	
DP-12-20-GW	WF25024-019	X	X	
DP-14-10-GW	WF25024-020	X	X	
EB-01-062421	WF25024-021	X	X	X

[a] Volatile Organic Compounds by Method 8260D and/or 8260D SIM (USEPA 1996)
[b] Dissolved Gases by Method RSK-175 (USEPA 1994)
[c] Alkalinity by Method SM 2320B; chloride, nitrate, and sulfate by Method 9056A; sulfide by method SM4500-S2 F; and TOC by method 9060A (APHA 1998 and USEPA 1996)

Sample ID	Laboratory ID	VOA[a]	Dissolved Gases[b]	General Chem[c]
SB-103-SO (1-3)	WF26008-001	X		
SB-108-SO (1-3)	WF26008-002	X		
SB-105-SO (1-2)	WF26008-003	X		
SB-106-SO (1-3)	WF26008-004	X		
SB-102-SS (1-1.5)	WF26008-005	X		
DP-06-20-21-GW	WF26008-006	X	X	
SB-101-SS (1-3)	WF26008-007	X		
DP-01-10-11-SS	WF26008-008	X		
DP-01-20-GW	WF26008-009	X	X	
DP-08-10-SS	WF26008-010	X		
EB-01-062521	WF26008-011	X	X	
DP-04 (1-3) SS	WF26008-012	X		
TRIP BLANK	WF26008-013	X		
MW-4D	WF26008-014	X	X	X
MW-1D	WF26008-015	X	X	X
DP-04-10-11-SS	WF26008-016	X		
DP-08-20-GW	WF26011-001	X	X	
DP-10 (1-3)-SS	WF26011-002	X		
DP-04-20-GW	WF26011-004	X	X	
DP-05 (1-3')-SS	WF26011-005	X		
DP-05 (10-11')-SS	WF26011-006	X		
DP-10-20-GW	WF26011-007	X	X	
DP-07 (1-3)-SS	WF26011-008	X		
DP-07 (10-11)-SS	WF26011-009	X		
DP-05-20-GW	WF26011-010	X	X	
DP-09 (1-3)-SS	WF26011-011	X		
DUP-02-SO	WF26011-012	X		
DP-09 (10-11)-SS	WF26011-013	X		
DP-07-20-21-GW	WF26011-014	X	X	
DP-11 (10-11)-SS	WF26011-015	X		
DP-11 (20-21)-SS	WF26011-016	X		
DP-09 (20-21)GW	WF26011-017	X	X	
DP-10 (10-11)-SS	WF29028-001	X		

2.0 Data Validation Findings

2.1 Custody, Preservation, and Completeness

Sample custody was maintained as required from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms with the following exceptions.

- Sample EB-01-062421 was received at the laboratory but not listed on the COC form. The sample was added for laboratory testing as required.

- Sample DP-04-10-11-SS was received by the laboratory but not listed on the COC. The sample was added for laboratory testing as required.

- Sample DP-10(10-11)-SS was listed on the COC for SDG WF26011 but not included in the shipment to the laboratory. The sample was submitted in a separate SDG (WF29028).

- The 500 mL plastic and 250 mL H_2SO_4 preserved containers for samples MW-1D and MW-4D were submitted to the laboratory but were not listed on the COC. The associated analyses were added as required.

2.2 Volatile Organic Analyses by Methods 8260B and 8260B SIM

2.2.1 Holding Times

The samples were analyzed within the required holding time of 14 days from collection for soil and preserved water samples with the following exceptions:

- Sample MW-5 was analyzed for VOCs 1 day past the 14-day holding time. The associated sample results are qualified as estimated (J) based on the holding time.

- The dilution for sample DP-12-20-GW was analyzed 1 day past the 14-day holding time. The analytes reported from the dilution (tetrachloroethene, trichloroethene, and 1,1,2-trichloroethane) are qualified as estimated (J) based on the holding time.

- Sample DP-07-20-21-GW was analyzed 5 days past the 14-day holding time. The sample was initially run within holding time at a dilution then reanalyzed with no dilution. The undiluted reanalysis results were reported. The associated sample results are qualified as estimated (J) based on the holding time.

2.2.2 Blank Analyses

2.2.2.1 Method Blanks

Method blanks were analyzed at the required frequency. Target analytes were not detected above the detection limits in the method blank samples.

2.2.2.2 Field Blanks

Six trip blanks and two equipment blank samples are associated with the samples. Target analytes were not detected above the detection limits in the trip blank or equipment blank samples.

2.2.3 Surrogate Analyses

Surrogate compounds were added to samples, blanks, and QC samples as required. The recovery values are within the laboratory QC limits.

2.2.4 Matrix Spike/Matrix Spike Duplicate Analyses

MS/MSD or MS/duplicate analyses were reported at the project frequency of one per 20 field samples. The recovery and relative percent difference (RPD) values are within the laboratory QC limits with the following exception:

- The recovery values for cyclohexane in samples MW-10 MS and MSD were 140 and 131 percent, respectively, which exceed the laboratory QC limits of 70 to 130 percent. Data qualification was not required as the bias is high and the associated sample results are non-detect. The laboratory "S" qualifier was removed from the associated result.

2.2.5 Laboratory Control Sample Analyses

LCS or LCS/LCSD were analyzed at the required frequency of one per batch. The recovery and RPD values of target analytes are within the laboratory QC limits with the following exceptions.

- The recovery value for dichlorodifluoromethane was 145 percent in the LCS run with batch 98224 (SDG WF25024), which exceeds the laboratory QC limit of 60 to 140 percent. Data qualification is not required as the bias is high and the associated sample results are non-detect. The laboratory "L" qualifier was removed from the associated sample results.

- The recovery values for dichlorodifluoromethane (144%) and methylcyclohexane (136 %) in the LCSD for batch 97424 (SDG WF26008) exceeded the laboratory QC limits of 70 to 130 percent. Data qualification is not required as the bias is high and the associated sample results are non-detect. The laboratory "L" qualifier was removed from the associated sample results.

- The RPD values for chloromethane (21), cyclohexane (32), dichlorodifluoromethane (59), methylcyclohexane (38), 1,1,2-trichloro-1,2,2-trifloroethane (34),trichlorofluoromethane (32) and vinyl chloride (24) for the LCS/LCSD analyzed in batch 97424 (SDG WF26008) exceed the laboratory QC limit of 20. Associated detections of these compounds are qualified as estimated.

- The LCS recovery value for cyclohexane was 144 percent in the LCS run for batch 98261 (SDG WF26011). Data qualification is not required as the bias is high and the associated sample results are non-detect. The laboratory "L" qualifier was removed from the associated sample results.

- Laboratory Reporting Limits

The laboratory limits of quantitation (LOQ) are consistent with method reporting limits.

2.2.6 Field Duplicates

Three field duplicate pairs (MW-01/DUP-01, DP-2-16/17-GW/DP-DUP1-GW, and DP-09(1-3)-SS/DUP-02-SO) were collected. The RPD values are within the QC guideline of less than 30 for groundwater samples and less than 50 for soil with the exceptions of the ethylbenzene and xylenes RPD for MW-01/DUP-01 as shown in the table below. Associated ethylbenzene and xylenes results are qualified as estimated (J).

Sample ID	Duplicate ID	Analyte	Units	Sample Value	Duplicate Value	RPD
MW-01	DUP-01	cis-1,2-Dichloroethene	µg/L	1700	2100	21
		trans-1,2-Dichloroethene	µg/L	8.1 J	8.3 J	NC
		Ethylbenzene	µg/L	97	170	55
		Vinyl Chloride	µg/L	64	87	30
		Xylenes	µg/L	400	750	61
DP-2-16/17-GW	DP-DUP1-GW	Chloroform	µg/L	1.7	1.7	0.0
		cis-1,2-Dichloroethene	µg/L	52	53	1.9
		trans-1,2-Dichloroethene	µg/L	0.83 J	0.87 J	NC
		Toluene	µg/L	0.46 J	0.43 J	NC
		Trichloroethene	µg/L	0.47 J	0.45 J	NC
		Vinyl Chloride	µg/L	1.9	1.9	0.0
		Xylenes	µg/L	1.8	1.7	5.7
DP-09(1-3)-SS	DUP-02-SO	Acetone	ug/kg	56	56	0.0
		2-Butanone	ug/kg	5.3 J	5.1 J	NC
		Methylene Chloride	ug/kg	<5.3	1.9 J	NC

NC - not calculable. One or both results are below the limit of quantitation

2.2.7 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here; the data are acceptable with qualification.

2.3 Dissolved Gases

2.3.1 Holding Times

The samples were analyzed within the required holding time of 14 days from collection for preserved water samples.

2.3.2 Blank Analyses

2.3.2.1 Method Blanks

Method blanks were analyzed at the required frequency of one per batch. Dissolved gases were not detected above the detection limits in the method blanks:

2.3.2.2 Trip Blanks

The trip blank samples were not analyzed for dissolved gases.

2.3.2.3 Equipment Blanks

Two equipment blank samples were collected. The equipment blanks were analyzed at the required frequency. Dissolved gases were not detected above the detection limits in the equipment blank samples with the following exception:

- Methane was detected in equipment blank EB-01-062421 at an estimated concentration of 3.5 ug/L. Functional Guidelines prescribes two qualification

schemes for blank contamination at concentrations above the LOQ; (1) associated sample concentrations less than the LOQ are qualified as undetected (U) at the reporting limit, (2) associated sample concentrations greater than the LOQ are qualified based on professional judgment. The data were not qualified because the methane concentrations in the associated samples were significantly higher than the equipment blank concentration.

2.3.3 Surrogate Analyses

Surrogate compounds are not required for dissolved gas analyses.

2.3.4 Matrix Spike/Matrix Spike Duplicate Analyses

Matrix spike and matrix spike duplicate analyses were performed at the required frequency. The recovery and RPD values were within laboratory QC limits with the following exception:

- The propane recovery values for samples MW-10 MS and MW-10 MSD are 178 and 181 percent, respectively, which exceed the laboratory QC limit of 70 to 130 percent. Data qualification is not required as the bias is high, and the associated sample result is non-detect. The laboratory "S" qualifier was removed from the associated result.

2.3.5 Laboratory Control Sample Analyses

LCS/LCSDs were analyzed as required. The recovery and RPD values of target analytes are within the laboratory QC limits.

2.3.6 Laboratory Reporting Limits

The laboratory limits of quantitation (LOQ) are consistent with method reporting limits.

2.3.7 Field Duplicates

Two field duplicate pairs (MW-01/DUP-01 and DP-2-16/17-GW/DP-DUP1-GW) were collected. The RPD values are within the QC guideline of less than 30 for groundwater samples and less than 50 for soil as shown in the table below.

Sample ID	Duplicate ID	Analyte	Units	Sample Value	Duplicate Value	RPD
MW-01	DUP-01	Ethane	µg/L	<10	2.6 J	NC
		Ethene	µg/L	19	23	19.0
		Methane	µg/L	740	890	18.4
DP-2-16/17-GW	DP-DUP1-GW	Methane	µg/L	10	6.7 J	NC

NC - not calculable. One or both results are below the limit of quantitation

2.3.8 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here; the data are acceptable without qualification.

2.4 General Chemistry Analyses

The field samples were analyzed for alkalinity, chloride, nitrate, sulfate, sulfide, and total organic carbon (TOC).

2.4.1 Holding Times

The samples were analyzed within the method-required holding times. The nitrate result for sample DUP-01 was qualified by the laboratory as "H", missed holding time. Upon review of the field sampling information, the analysis was performed within the 48-hour holding time and the "H" qualifier was removed.

2.4.2 Blank Analyses

2.4.2.1 Method Blanks

Method blanks were analyzed at the required frequency. Target analytes were not detected above the detection limits in the method blank samples.

2.4.2.2 Equipment Blanks

The equipment blanks were analyzed at the required frequency. Target analytes were not detected above the detection limits in the equipment blank with the following exception:

- Sulfide was detected in equipment blank EB-01-062421 at a concentration of 1.5 mg/L. Functional Guidelines prescribes two qualification schemes for blank contamination at concentrations above the LOQ; (1) associated sample concentrations less than the LOQ are qualified as undetected (U) at the reporting limit, (2) associated sample concentrations greater than the LOQ are qualified based on professional judgment. The sulfide results for samples MW-4, MW-5, MW-11, and MW-14 are qualified as undetected (U) because the concentrations in these samples are above the LOQ but not significantly higher than the blank concentration. Data are qualified as outlined in Section 5.

2.4.3 Matrix Spike/Matrix Spike Duplicate Analyses

MS/MSD analyses were reported at the project frequency of one pair per 20 field samples for chloride, nitrate, sulfate, and TOC. Duplicate analyses were reported for alkalinity and sulfide (matrix spikes are not required for these methods). The recovery and RPD values are within the laboratory QC limits.

2.4.4 Laboratory Control Sample Analyses

LCSs or LCS/LCSDs were analyzed at the required frequency of one per batch. The recovery and RPD values are within the laboratory QC limits.

2.4.5 Laboratory Reporting Limits

The laboratory limits of quantitation (LOQ) are consistent with method reporting limits.

2.4.6 Field Duplicates

One field duplicate pair (MW-01/DUP-01) was collected. The RPD values are within the QC guideline of 30 for groundwater samples as shown in the table below.

Sample ID	Duplicate ID	Analyte	Units	Sample Value	Duplicate Value	RPD
MW-01	DUP-01	Chloride	mg/L	21	21	0
		Sulfate	mg/L	2.4	2.5	4.1
		TOC	mg/L	1.4	1.3	7.4

2.4.7 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here; the data are acceptable with qualification.

3.0 Assessment of Data Quality Indicators

3.1 Precision

Precision is a measure of the mutual agreement among individual measurements of the same property, under prescribed similar conditions. Precision is determined through analysis of MS/MSD, sample duplicates, and field duplicate samples. Duplicate samples are evaluated for precision in terms of relative percent difference. Relative percent difference is defined as the difference between the duplicate results divided by the mean and expressed as a percent.

The precision of the VOC, dissolved gases, and general chemistry data is very good. The RPD values for the site-specific MS/MSD, LCS/LCSD, and field duplicates are within the laboratory QC limits with the exception of the LCS/LCSD RPD for seven VOCs and field duplicate RPDs for two VOCs. Associated detected results are qualified as estimated.

3.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value. The level of accuracy is determined by examination of surrogates, MS/MSDs, LCSs, method blanks, and field blanks. The surrogate, matrix spike, and LCS recovery values were compared to the laboratory QC limits. Method and field blanks are analyzed to identify compounds that could be introduced during the sampling, extraction, or analysis phases (i.e., laboratory contaminants) and lead to inaccurate results.

The accuracy of the VOC, dissolved gases, and general chemistry data is very good. The LCS, site-specific MS/MSDs, and surrogate recoveries are within the laboratory QC limits. LCS recovery values were high for three VOCs and one dissolved gas. Associated samples did not require qualification as the bias was high and the associated results were non-detect. The method blanks, equipment blanks, and trip blank are free of contamination with the exceptions of methane and sulfide in an equipment blank sample. Associated data were qualified in accordance with Functional Guidelines criteria. The use of Functional Guidelines qualification reduces the impact

of blank contamination to the data by reducing the probability of reporting false positive or biased high data.

3.3 Representativeness

Representativeness is the extent to which the data reflect the actual contaminant levels present in the samples. Representativeness is assessed through method and field blanks, and proper preservation and handling. Method and field blank analyses allow for the detection of artifacts that may be reported as false positive results. Proper sample preservation and handling are necessary so that sample results reflect the actual sample concentrations.

The data are assumed to be representative because the samples were properly preserved and handled with the exceptions of three VOC samples analyzed past the holding time. Results were qualified as estimated. Target analytes were not detected in the method blanks, equipment blanks or trip blank with the exceptions of one dissolved gas and sulfide detected in an equipment blank sample. The use of Functional Guidelines qualification reduces the impact of method blank contamination to the data by reducing the probability of reporting false positive or biased high data.

3.4 Comparability

Comparability is a measure of how easily the data set can be compared and combined with other data sets. The data are assumed to be comparable since standard EPA methods were used to analyze the samples, the method QC criteria were generally met, and routine detection limits were reported.

3.5 Completeness

Completeness is expressed as the ratio of valid results to the amount of data expected to be obtained under normal conditions. Completeness is determined by assessing the number of samples for which valid results were obtained versus the number of samples that were submitted to the laboratory for analysis. Valid results are results that are determined to be usable during the data validation review process.

The completeness of this data set is 100 percent.

4.0 Data Qualifier Definitions

4.1 Inorganic Data Qualifiers

The following data validation qualifiers were used in the review of this data set. These qualifiers are from the *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*.

U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J The associated value is an estimated quantity.

UJ The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

R The data are unusable. (Note: Analyte may or may not be present)

4.2 Organic Data Qualifiers

The following data validation qualifiers were used in the review of this data set. These qualifiers are from the *Contract Laboratory Program National Functional Guidelines for Organic Data Review*.

U The analyte was analyzed for but not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”.

NJ The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

R The sample results are rejected due to serious deficiencies in the ability to analyze the samples and meet quality control criteria. The presence or absence of the analyte cannot be verified.

5.0 References

USEPA. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) Third Edition, Updates I, II, IIA, IIB, and III. United States Environmental Protection Agency. Office of Solid Waste. December 1996.

USEPA. 1999a. Methods and Guidance for Analysis of Water, Version 2.0. United States Environmental Protection Agency Office of Science and Technology. EPA 821-C-99-004. CD ROM. June 1999.

USEPA. 2008. Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency Office of Emergency and Remedial Response. EPA540/R-99/008. June 2008.

USEPA. 2010. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. United States Environmental Protection Agency. Office of Solid Waste and Emergency Response. January 2010.

6.0 Summary of Data Qualification

The following data qualifiers were applied based on the quality assurance review of this data set.

Sample ID	Analyte	Qualifier	Reason for Qualification
MW-5	VOCs	J and UJ	Holding time exceeded
DP-12-20-GW	Tetrachloroethene Trichloroethene 1,1,2-Trichloroethane	J	Holding time exceeded
DP-07-20-21-GW	VOCs	J and UJ	Holding time exceeded
SB-102-SS	Vinyl Chloride	J	LCS/LCSD RPD > QC limit
MW-01	Ethylbenzene Total Xylenes	J	Field duplicate RPD > QC limit
DUP-01	Ethylbenzene Total Xylenes	J	Field duplicate RPD > QC limit
DUP-01	Nitrate	Remove H	Erroneous laboratory flag
MW-4	Sulfide	U	Equipment blank detection > LOQ
MW-5	Sulfide	U	Equipment blank detection > LOQ
MW-11	Sulfide	U	Equipment blank detection > LOQ
MW-14	Sulfide	U	Equipment blank detection > LOQ

Client: **EarthCon Consultants, Inc.**
Description: **MW-01D-16.2'**
Date Sampled: **06/21/2021 1620**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1210	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**3.1**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01D-16.2'**
Date Sampled: **06/21/2021 1620**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1210	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**1.3**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/29/2021 2351	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1022	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**6.1**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01D-36.2'**
Date Sampled: **06/21/2021 1635**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1234	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**3.5**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01D-36.2'**
Date Sampled: **06/21/2021 1635**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1234	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**1.4**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0016	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1038	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.3**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-16'**
Date Sampled: **06/21/2021 1505**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1259	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**2.1**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-16'**
Date Sampled: **06/21/2021 1505**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1259	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0041	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1054	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.0**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-36'**
Date Sampled: **06/21/2021 1520**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1324	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**4.7**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-36'**
Date Sampled: **06/21/2021 1520**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1324	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		107	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0105	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1110	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**2.6**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-56'**
Date Sampled: **06/21/2021 1535**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1348	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**4.0**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-04D-56'**
Date Sampled: **06/21/2021 1535**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1348	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0130	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1126	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**2.9**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-2**
Date Sampled: **06/22/2021 1435**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-006**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0614	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1044	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1044	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0541	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0140	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**7.1**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**1.5**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.7**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1413	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.027 - 0.076

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-2**
Date Sampled: **06/22/2021 1435**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1413	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0155	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-2**
Date Sampled: **06/22/2021 1435**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-006**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1142	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**2.7**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-2D**
Date Sampled: **06/22/2021 1345**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-007**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0618	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1105	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1105	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0643	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0252	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**2.9**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**0.25**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**1.3**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.6**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1438	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-2D**
Date Sampled: **06/22/2021 1345**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1438	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0219	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-2D**
Date Sampled: **06/22/2021 1345**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-007**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1158	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.4**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-15**
Date Sampled: **06/22/2021 0950**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-008**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0625	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0900	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0900	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0704	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0316	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**4.3**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**12**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**4.5**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1502	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.287 - 0.326

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-15**
Date Sampled: **06/22/2021 0950**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-008**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1502	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0244	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-15**
Date Sampled: **06/22/2021 0950**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-008**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1214	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**5.3**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-16**
Date Sampled: **06/22/2021 1050**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-009**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0628	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0921	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0921	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0725	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0340	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**13**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**5.6**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.1**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1527	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.6**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-16**
Date Sampled: **06/22/2021 1050**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1527	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0308	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-16**
Date Sampled: **06/22/2021 1050**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-009**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1230	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.3**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-17**
Date Sampled: **06/22/2021 1200**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-010**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0639	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1003	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1003	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0828	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0404	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**8.3**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**1.8**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**0.29**	**J**	**1.0**	**0.25**	**mg/L**	**2**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1552	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**0.81**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-17**
Date Sampled: **06/22/2021 1200**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-010**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1552	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0333	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-17**
Date Sampled: **06/22/2021 1200**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-010**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1246	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.2**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.** Laboratory ID: **WF22061-011**
Description: **MW-8** Matrix: **Aqueous**
Date Sampled: **06/22/2021 1100**
Date Received: **06/22/2021**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0644	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0942	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0942	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0849	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0429	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**1.1**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**0.51**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**4.3**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**6.7**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1617	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 6.347 - 6.877

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-8**
Date Sampled: **06/22/2021 1100**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-011**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1617	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0358	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MCW
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-8**
Date Sampled: **06/22/2021 1100**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-011**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1302	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**2.8**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-7**
Date Sampled: **06/22/2021 1235**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-012**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0651	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1023	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1023	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0910	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0541	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		**SM 2320B-2011**	**22**		**20**	**20**	**mg CaCO3/L**	**1**
Chloride		**9056A**	**4.7**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**2.4**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**9.1**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1642	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 9.016 - 9.081

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-7**
Date Sampled: **06/22/2021 1235**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-012**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1642	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**190**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**0.71**	**J**	**1.0**	**0.40**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**7.4**		**1.0**	**0.40**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**0.69**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**21**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**24**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0422	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-7**
Date Sampled: **06/22/2021 1235**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-012**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1318	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**15**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK**
Date Sampled: **06/22/2021**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-013**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1120	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK**
Date Sampled: **06/22/2021**
Date Received: **06/22/2021**

Laboratory ID: **WF22061-013**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1120	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		107	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK 1**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1050	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
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DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK 1**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1050	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK 2**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-008**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1112	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3**
Date Sampled: **06/23/2021 1100**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-001**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1926	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2316	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2316	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2316	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0605	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**40**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**37**		**1.0**	**0.25**	**mg/L**	**1**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**3.0**		**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**21**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	07/02/2021 1738	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		4000	1000	ug/L	1
Benzene	71-43-2	8260D	ND		200	80	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		200	80	ug/L	1
Bromoform	75-25-2	8260D	ND		200	80	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		400	80	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		2000	400	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		200	80	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		200	80	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		200	80	ug/L	1
Chloroethane	75-00-3	8260D	ND		400	80	ug/L	1
Chloroform	67-66-3	8260D	ND		200	80	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		200	100	ug/L	1
Cyclohexane	110-82-7	8260D	ND		200	80	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		200	80	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		200	80	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		200	80	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		200	80	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		200	80	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		200	80	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		400	120	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260D**	**1500**		**200**	**80**	**ug/L**	**1**
1,2-Dichloroethane	**107-06-2**	**8260D**	**100**	**J**	**200**	**80**	**ug/L**	**1**

TOC Range: 20.732 - 20.98

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3**
Date Sampled: **06/23/2021 1100**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	07/02/2021 1738	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	**75-35-4**	**8260D**	**760**		**200**	**80**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**24000**		**200**	**80**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**210**		**200**	**80**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		200	80	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		200	80	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		200	80	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**520**		**200**	**80**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		2000	400	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		200	80	ug/L	1
Methyl acetate	79-20-9	8260D	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		200	80	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		2000	400	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		1000	80	ug/L	1
Methylene chloride	75-09-2	8260D	ND		200	80	ug/L	1
Styrene	100-42-5	8260D	ND		200	82	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		200	80	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		200	80	ug/L	1
Toluene	**108-88-3**	**8260D**	**190**	**J**	**200**	**80**	**ug/L**	**1**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		200	84	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		200	80	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		200	80	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		200	80	ug/L	1
Trichloroethene	79-01-6	8260D	ND		200	80	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		200	80	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**1400**		**200**	**80**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**2300**		**200**	**80**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D (SIM)	5	07/02/2021 0603	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**260**		**15**	**5.0**	**ug/L**	**2**

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3**
Date Sampled: **06/23/2021 1100**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-001**
Matrix: **Aqueous**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1334	TML		96775
2		RSK - 175	10	06/30/2021 0908	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	**74-84-0**	**RSK - 175**	**36**		**10**	**2.5**	**ug/L**	**1**
Ethene	**74-85-1**	**RSK - 175**	**160**		**10**	**2.5**	**ug/L**	**1**
Methane	**74-82-8**	**RSK - 175**	**8500**		**100**	**25**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3D**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-002**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1929	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2337	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2337	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2337	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0629	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**13**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**3.4**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**0.57**	**J**	**1.0**	**0.25**	**mg/L**	**1**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.2**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1243	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.1**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.073 - 0.148

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3D**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1243	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	**75-09-2**	**8260D**	**0.78**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D (SIM)	1	07/01/2021 2352	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-3D**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-002**
Matrix: **Aqueous**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1350	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**5.7**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-6R**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-003**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1933	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2358	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2358	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2358	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0653	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**2.5**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**0.15**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**1.3**		**1.0**	**0.25**	**mg/L**	**1**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**7.4**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1305	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 7.281 - 7.539

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-6R**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1305	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0029	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-6R**
Date Sampled: **06/23/2021 0945**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-003**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1406	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**4.6**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01**
Date Sampled: **06/23/2021 1205**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-004**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1938	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0019	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0019	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0019	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0717	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**21**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**2.4**		**1.0**	**0.25**	**mg/L**	**1**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**1.4**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1630	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		400	100	ug/L	1
Benzene	71-43-2	8260D	ND		20	8.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		20	8.0	ug/L	1
Bromoform	75-25-2	8260D	ND		20	8.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		40	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		200	40	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		20	8.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		20	8.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		20	8.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		40	8.0	ug/L	1
Chloroform	67-66-3	8260D	ND		20	8.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		20	10	ug/L	1
Cyclohexane	110-82-7	8260D	ND		20	8.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		20	8.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		20	8.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		20	8.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		20	8.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		20	8.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		20	8.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		40	12	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		20	8.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		20	8.0	ug/L	1

TOC Range: 1.357 - 1.436

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01**
Date Sampled: **06/23/2021 1205**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1630	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		20	8.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**1700**		**20**	**8.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**8.1**	**J**	**20**	**8.0**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		20	8.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		20	8.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		20	8.0	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**97**	**J**	**20**	**8.0**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		200	40	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		20	8.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		200	40	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		100	8.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		20	8.0	ug/L	1
Styrene	100-42-5	8260D	ND		20	8.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		20	8.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		20	8.4	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		20	8.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		20	8.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		20	8.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		20	8.0	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**64**		**20**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**400**	**J**	**20**	**8.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0053	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-01**
Date Sampled: **06/23/2021 1205**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-004**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1421	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	**74-85-1**	**RSK - 175**	**19**		**10**	**2.5**	**ug/L**	**1**
Methane	**74-82-8**	**RSK - 175**	**740**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DUP-01**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-005**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1943	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0040	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0040	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0040	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0741	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**21**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND	H	0.020	0.0050	mg/L	1
Sulfate		**9056A**	**2.5**		**1.0**	**0.25**	**mg/L**	**1**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.2**		**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**1.3**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1653	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		400	100	ug/L	1
Benzene	71-43-2	8260D	ND		20	8.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		20	8.0	ug/L	1
Bromoform	75-25-2	8260D	ND		20	8.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		40	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		200	40	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		20	8.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		20	8.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		20	8.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		40	8.0	ug/L	1
Chloroform	67-66-3	8260D	ND		20	8.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		20	10	ug/L	1
Cyclohexane	110-82-7	8260D	ND		20	8.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		20	8.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		20	8.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		20	8.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		20	8.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		20	8.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		20	8.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		40	12	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		20	8.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		20	8.0	ug/L	1

TOC Range: 1.264 - 1.304

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DUP-01**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1653	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		20	8.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**2100**		**20**	**8.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**8.3**	**J**	**20**	**8.0**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		20	8.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		20	8.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		20	8.0	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**170**	**J**	**20**	**8.0**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		200	40	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		20	8.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		200	40	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		100	8.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		20	8.0	ug/L	1
Styrene	100-42-5	8260D	ND		20	8.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		20	8.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		20	8.4	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		20	8.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		20	8.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		20	8.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		20	8.0	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**87**		**20**	**8.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**750**	**J**	**20**	**8.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0118	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **DUP-01**
Date Sampled: **06/23/2021**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-005**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1437	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	**74-84-0**	**RSK - 175**	**2.6**	**J**	**10**	**2.5**	**ug/L**	**1**
Ethene	**74-85-1**	**RSK - 175**	**23**		**10**	**2.5**	**ug/L**	**1**
Methane	**74-82-8**	**RSK - 175**	**890**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-10**
Date Sampled: **06/23/2021 1415**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-006**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1946	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0101	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0101	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0101	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0805	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**7.1**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**2.7**		**1.0**	**0.25**	**mg/L**	**1**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**1.9**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1220	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND	8	1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 1.873 - 1.952

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-10**
Date Sampled: **06/23/2021 1415**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1220	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0143	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-10**
Date Sampled: **06/23/2021 1415**
Date Received: **06/23/2021**

Laboratory ID: **WF23091-006**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	06/30/2021 1029	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**140**		**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND	S	15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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B = Detected in the method blank
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S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-4**
Date Sampled: **06/24/2021 0845**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-001**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1952	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1606	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1905	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1606	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1033	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**6.7**		**1.0**	**0.25**	**mg/L**	**2**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**1.2**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**4.0**	**U**	**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**0.74**	**J**	**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1159	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.607 - 0.864

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAE
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-4**
Date Sampled: **06/24/2021 0845**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1159	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**8.7**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**4.2**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**0.93**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Trichloroethene	**79-01-6**	**8260D**	**6.9**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1552	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-4**
Date Sampled: **06/24/2021 0845**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-001**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/28/2021 1343	TML		97011

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**140**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-14**
Date Sampled: **06/24/2021 0950**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-002**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2005	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1627	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1926	AMR		97474
2		(Sulfate) 9056A	5	07/02/2021 0706	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1145	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**3.0**		**1.0**	**0.25**	**mg/L**	**2**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**6.8**		**5.0**	**1.3**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.1**	U	**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**0.60**	**J**	**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1224	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	K	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.551 - 0.628

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-14**
Date Sampled: **06/24/2021 0950**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-002**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1224	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	**108-88-3**	**8260D**	**8.2**		**1.0**	**0.40**	**ug/L**	**1**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1617	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-14**
Date Sampled: **06/24/2021 0950**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-002**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/28/2021 1359	TML		97011

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**80**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-11**
Date Sampled: **06/24/2021 1205**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-003**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2011	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1648	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1947	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1648	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1210	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		**SM 2320B-2011**	**120**		**20**	**20**	**mg CaCO3/L**	**1**
Chloride		**9056A**	**4.8**		**1.0**	**0.25**	**mg/L**	**2**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**3.3**		**1.0**	**0.25**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.0**	U	**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**2.6**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1250	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 2.558 - 2.642

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-11**
Date Sampled: **06/24/2021 1205**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-003**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1250	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1641	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-11**
Date Sampled: **06/24/2021 1205**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-003**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1045	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**390**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-5**
Date Sampled: **06/24/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-004**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2015	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1709	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 2050	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1709	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1234	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**19**		**1.0**	**0.25**	**mg/L**	**2**
Nitrate - N		**9056A**	**0.27**		**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**0.47**	**J**	**1.0**	**0.25**	**mg/L**	**2**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.1**	**U**	**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 0429	JDF		98339

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND	H UJ	100	25	ug/L	1
Benzene	71-43-2	8260D	ND	H	5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND	H	5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND	H	5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND	H	10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND	H	50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND	H	5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND	H	5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND	H	5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND	H	10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND	H	5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND	H	5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND	H	5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND	H	5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND	H	5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND	H	5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	H	10	3.0	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260D**	**4.7**	**HJ J**	**5.0**	**2.0**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260D	ND	H UJ	5.0	2.0	ug/L	1

TOC Range: 0.211 - 0.237

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-5**
Date Sampled: **06/24/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 0429	JDF		98339

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	**75-35-4**	**8260D**	**2.4**	**HJ**	**5.0**	**2.0**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**370**	**H**	**5.0**	**2.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**3.7**	**HJ**	**5.0**	**2.0**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND	H	5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND	H	5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND	H	5.0	2.0	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**2.7**	**HJ**	**5.0**	**2.0**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND	H	50	10	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND	H	5.0	2.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND	H	5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND	H	5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND	H	50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND	H	25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND	H	5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND	H	5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND	H	5.0	2.0	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**120**	**H**	**5.0**	**2.0**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND	H	5.0	2.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND	H	5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND	H	5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND	H	5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND	H	5.0	2.0	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**210**	**H**	**5.0**	**2.0**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND	H	5.0	2.0	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**8.8**	**H**	**5.0**	**2.0**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260D	ND	H	5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	H	95	70-130
1,2-Dichloroethane-d4	H	104	70-130
Toluene-d8	H	101	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0107	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**13**		**3.0**	**1.0**	**ug/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-5**
Date Sampled: **06/24/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-004**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1101	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	**74-85-1**	**RSK - 175**	**3.8**	**J**	**10**	**2.5**	**ug/L**	**1**
Methane	**74-82-8**	**RSK - 175**	**1800**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TB-1**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1043	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TB-1**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-005**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1043	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (10-11)**
Date Sampled: **06/24/2021 1000**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-006**
Matrix: **Solid**
% Solids: **84.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0455	CJL2		97321	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	2.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.8	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.8	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (10-11)**
Date Sampled: **06/24/2021 1000**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-006**
Matrix: **Solid**
% Solids: **84.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0455	CJL2		97321	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.8	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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J = Estimated result < LOQ and ≥ DL
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L = LCS/LCSD failure
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (19-20)**
Date Sampled: **06/24/2021 1010**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-007**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0518	CJL2		97321	6.05

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		19	7.6	ug/kg	1
Benzene	71-43-2	8260D	ND		4.7	1.9	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.7	1.9	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.7	1.9	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.7	2.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		19	3.8	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.7	1.9	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.7	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.7	1.9	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.7	1.9	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.7	1.9	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.7	2.8	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.7	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.7	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.7	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.7	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.7	2.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	1.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.7	1.9	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.7	1.9	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.7	1.9	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.7	1.9	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.5	3.8	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.7	1.9	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.7	1.9	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.7	1.9	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.5	3.8	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.7	1.9	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.7	1.9	ug/kg	1
Styrene	100-42-5	8260D	ND		4.7	1.9	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.7	1.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	1.9	ug/kg	1
Toluene	108-88-3	8260D	ND		4.7	1.9	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (19-20)**
Date Sampled: **06/24/2021 1010**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-007**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0518	CJL2		97321	6.05

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.7	1.9	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.7	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.7	1.9	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.7	1.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.7	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	2.8	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.5	3.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-13-SO (10-11)**
Date Sampled: **06/23/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-008**
Matrix: **Solid**
% Solids: **81.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0541	CJL2		97321	6.06

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**11**	**J**	**20**	**8.1**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-13-SO (10-11)**
Date Sampled: **06/23/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-008**
Matrix: **Solid**
% Solids: **81.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0541	CJL2		97321	6.06

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-13-SO (19-20)**
Date Sampled: **06/23/2021 1600**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-009**
Matrix: **Solid**
% Solids: **89.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0604	CJL2		97321	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**19**		**18**	**7.1**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**5.7**		**4.4**	**1.8**	**ug/kg**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.4	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.8	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.8	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	1
Tetrachloroethene	**127-18-4**	**8260D**	**3.3**	**J**	**4.4**	**1.8**	**ug/kg**	**1**
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	1

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L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-13-SO (19-20)**
Date Sampled: **06/23/2021 1600**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-009**
Matrix: **Solid**
% Solids: **89.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0604	CJL2		97321	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	1
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**4.4**		**4.4**	**1.8**	**ug/kg**	**1**
Trichloroethene	**79-01-6**	**8260D**	**6.9**		**4.4**	**1.8**	**ug/kg**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	2.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.8	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (6-7)**
Date Sampled: **06/24/2021 1020**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-010**
Matrix: **Solid**
% Solids: **89.9** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0627	CJL2		97321	6.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**15**	**J**	**18**	**7.1**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**7.0**		**4.4**	**1.8**	**ug/kg**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.4	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.8	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.8	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-SO (6-7)**
Date Sampled: **06/24/2021 1020**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-010**
Matrix: **Solid**
% Solids: **89.9** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0627	CJL2		97321	6.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.4	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.8	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-SO (4-5)**
Date Sampled: **06/23/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-011**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0650	CJL2		97321	6.35

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		18	7.2	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**17**		**4.5**	**1.8**	**ug/kg**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.0	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.0	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	**127-18-4**	**8260D**	**77**		**4.5**	**1.8**	**ug/kg**	**1**
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-SO (4-5)**
Date Sampled: **06/23/2021 1500**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-011**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0650	CJL2		97321	6.35

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**11**		**4.5**	**1.8**	**ug/kg**	**1**
Trichloroethene	**79-01-6**	**8260D**	**69**		**4.5**	**1.8**	**ug/kg**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.0	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-6-SO (10-11)**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-012**
Matrix: **Solid**
% Solids: **81.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0712	CJL2		97321	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.2	ug/kg	1
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.1	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-6-SO (10-11)**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-012**
Matrix: **Solid**
% Solids: **81.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0712	CJL2		97321	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.1	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-SO (9-10)**
Date Sampled: **06/23/2021 1700**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-013**
Matrix: **Solid**
% Solids: **85.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0735	CJL2		97321	11.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		10	4.1	ug/kg	1
Benzene	71-43-2	8260D	ND		2.6	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		2.6	1.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		2.6	1.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.6	1.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		2.6	1.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		2.6	1.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		2.6	1.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		2.6	1.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		2.6	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		2.6	1.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		2.6	1.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		2.6	1.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		2.6	1.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		2.6	1.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.6	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		2.6	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		2.6	1.0	ug/kg	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**15**		**2.6**	**1.0**	**ug/kg**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		2.6	1.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		2.6	1.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		2.6	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		2.6	1.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		5.2	2.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		2.6	1.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		2.6	1.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		2.6	1.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		5.2	2.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		2.6	1.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		2.6	1.0	ug/kg	1
Styrene	100-42-5	8260D	ND		2.6	1.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		2.6	1.0	ug/kg	1
Tetrachloroethene	**127-18-4**	**8260D**	**21**		**2.6**	**1.0**	**ug/kg**	**1**
Toluene	108-88-3	8260D	ND		2.6	1.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-SO (9-10)**
Date Sampled: **06/23/2021 1700**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-013**
Matrix: **Solid**
% Solids: **85.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0735	CJL2		97321	11.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		2.6	1.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		2.6	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		2.6	1.0	ug/kg	1
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**3.3**		**2.6**	**1.0**	**ug/kg**	**1**
Trichloroethene	**79-01-6**	**8260D**	**27**		**2.6**	**1.0**	**ug/kg**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		2.6	1.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		2.6	1.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		5.2	2.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		110	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-3-SO (10-11)**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-014**
Matrix: **Solid**
% Solids: **83.2** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0758	CJL2		97321	5.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**10**	**J**	**22**	**8.8**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.5	2.2	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.5	2.2	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.5	2.2	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.5	3.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		22	4.4	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.5	2.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.5	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.5	2.2	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.5	2.2	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.5	2.2	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.5	3.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.5	2.2	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.5	2.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.5	2.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.5	2.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.5	3.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.5	2.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.5	2.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.5	2.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.5	2.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.5	2.2	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.5	2.2	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.5	2.2	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.4	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.5	2.2	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.5	2.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.5	2.2	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.4	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.5	2.2	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.5	2.2	ug/kg	1
Styrene	100-42-5	8260D	ND		5.5	2.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.5	2.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.5	2.2	ug/kg	1
Toluene	108-88-3	8260D	ND		5.5	2.2	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-3-SO (10-11)**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-014**
Matrix: **Solid**
% Solids: **83.2** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0758	CJL2		97321	5.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.5	2.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.5	2.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.5	2.2	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.5	2.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.5	2.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.5	2.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.5	3.3	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TB-2**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-015**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1108	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TB-2**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-015**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1108	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-16/17-GW**
Date Sampled: **06/24/2021 1010**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-016**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1315	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.7**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**52**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**0.83**	**J**	**1.0**	**0.40**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	**108-88-3**	**8260D**	**0.46**	**J**	**1.0**	**0.40**	**ug/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-2-16/17-GW**
Date Sampled: **06/24/2021 1010**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-016**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1315	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**0.47**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**1.9**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**1.8**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1706	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1117	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**10**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-DUP1-GW**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-017**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1341	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.7**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**53**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**0.87**	**J**	**1.0**	**0.40**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	**108-88-3**	**8260D**	**0.43**	**J**	**1.0**	**0.40**	**ug/L**	**1**

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-DUP1-GW**
Date Sampled: **06/24/2021**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-017**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1341	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**0.45**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**1.9**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**1.7**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1731	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1133	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**6.7**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-3-20-GW**
Date Sampled: **06/24/2021 1200**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-018**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1407	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.6**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
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DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-3-20-GW**
Date Sampled: **06/24/2021 1200**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-018**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1407	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1755	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1149	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**17**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-20-GW**
Date Sampled: **06/23/2021 1810**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-019**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/06/2021 1829	TML		97934
2	5030B	8260D	100	07/08/2021 1826	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260D**	**10**		**1.0**	**0.40**	**ug/L**	**1**
1,2-Dichloroethane	**107-06-2**	**8260D**	**0.41**	**J**	**1.0**	**0.40**	**ug/L**	**1**
1,1-Dichloroethene	**75-35-4**	**8260D**	**110**		**1.0**	**0.40**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**120**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	**156-60-5**	**8260D**	**2.4**		**1.0**	**0.40**	**ug/L**	**1**
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**8.7**		**1.0**	**0.40**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	**75-09-2**	**8260D**	**2.4**		**1.0**	**0.40**	**ug/L**	**1**
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**2100**	**~~H~~ J**	**100**	**40**	**ug/L**	**2**

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-12-20-GW**
Date Sampled: **06/23/2021 1810**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-019**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/06/2021 1829	TML		97934
2	5030B	8260D	100	07/08/2021 1826	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	**71-55-6**	**8260D**	**1.6**		**1.0**	**0.40**	**ug/L**	**1**
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**280**	H J	**100**	**40**	**ug/L**	**2**
Trichloroethene	**79-01-6**	**8260D**	**5800**	H J	**100**	**40**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**7.0**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260D**	**86**		**1.0**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits	Q	Run 2 % Recovery	Run 2 Acceptance Limits
Bromofluorobenzene		104	70-130	H	92	70-130
1,2-Dichloroethane-d4		110	70-130	H	100	70-130
Toluene-d8		104	70-130	H	98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1820	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Run 1 Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1205	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**80**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-14-10-GW**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-020**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/08/2021 1800	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		100	25	ug/L	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	10	3.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		50	10	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND		5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/L	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-14-10-GW**
Date Sampled: **06/24/2021 1130**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-020**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/08/2021 1800	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 2328	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1221	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	**74-84-0**	**RSK - 175**	**2.9**	**J**	**10**	**2.5**	**ug/L**	**1**
Ethene	**74-85-1**	**RSK - 175**	**2.5**	**J**	**10**	**2.5**	**ug/L**	**1**
Methane	**74-82-8**	**RSK - 175**	**57**		**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **EB-01-062421**
Date Sampled: **06/24/2021 1705**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-021**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2018	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1730	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 2111	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1730	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1346	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	ND		1.0	0.25	mg/L	2
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.5**		**1.0**	**1.0**	**mg/L**	**1**
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1133	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **EB-01-062421**
Date Sampled: **06/24/2021 1705**
Date Received: **06/24/2021**

Laboratory ID: **WF25024-021**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1237	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	**74-82-8**	**RSK - 175**	**3.5**	**J**	**10**	**2.5**	**ug/L**	**1**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
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Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-103-SO (1-3)**
Date Sampled: **06/24/2021 1740**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-001**
Matrix: **Solid**
% Solids: **86.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1835	JM1		97424	6.46
2	5035 High	8260D	1	07/02/2021 1752	JM1		97802	6.44
3	5035 High	8260D	4	07/08/2021 1328	JM1		98260	6.44

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**48**		**18**	**7.2**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**4.7**	**J**	**18**	**3.6**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	**100-41-4**	**8260D**	**3300**		**260**	**110**	**ug/kg**	**2**
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260D**	**8.2**		**4.5**	**1.8**	**ug/kg**	**1**
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-103-SO (1-3)**
Date Sampled: **06/24/2021 1740**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-001**
Matrix: **Solid**
% Solids: **86.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1835	JM1		97424	6.46
2	5035 High	8260D	1	07/02/2021 1752	JM1		97802	6.44
3	5035 High	8260D	4	07/08/2021 1328	JM1		98260	6.44

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260D**	**11000**		**2100**	**840**	**ug/kg**	**3**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene		112	47-138		113	47-138		108	47-138
1,2-Dichloroethane-d4		99	53-142		105	53-142		112	53-142
Toluene-d8		108	68-124		103	68-124		98	68-124

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J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-108-SO (1-3)**
Date Sampled: **06/24/2021 1750**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-002**
Matrix: **Solid**
% Solids: **83.1** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	07/06/2021 1211	JM1		97945	6.77

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**100**		**18**	**7.1**	**ug/kg**	**2**
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	2
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	2
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.7	ug/kg	2
2-Butanone (MEK)	**78-93-3**	**8260D**	**16**	**J**	**18**	**3.6**	**ug/kg**	**2**
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	2
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	2
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	2
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	2
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.7	ug/kg	2
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	2
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.7	ug/kg	2
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	2
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	1.8	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	2
Ethylbenzene	**100-41-4**	**8260D**	**2.8**	**J**	**4.4**	**1.8**	**ug/kg**	**2**
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	2
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	2
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	2
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	2
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	2
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	2
Tetrachloroethene	127-18-4	8260D	ND		4.4	1.8	ug/kg	2
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	2

LOQ = Limit of Quantitation
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-108-SO (1-3)**
Date Sampled: **06/24/2021 1750**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-002**
Matrix: **Solid**
% Solids: **83.1** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	07/06/2021 1211	JM1		97945	6.77

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.4	1.8	ug/kg	2
Trichloroethene	79-01-6	8260D	ND		4.4	1.8	ug/kg	2
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	2
Vinyl chloride	75-01-4	8260D	ND		4.4	2.7	ug/kg	2
Xylenes (total)	**1330-20-7**	**8260D**	**8.7**	**J**	**8.9**	**3.6**	**ug/kg**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		101	68-124

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ND = Not detected at or above the DL
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-105-SO (1-2)**
Date Sampled: **06/24/2021 1830**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-003**
Matrix: **Solid**
% Solids: **91.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1923	JM1		97424	5.50

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**68**		**20**	**8.0**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**4.5**	**J**	**20**	**4.0**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-105-SO (1-2)**
Date Sampled: **06/24/2021 1830**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-003**
Matrix: **Solid**
% Solids: **91.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1923	JM1		97424	5.50

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		114	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-106-SO (1-3)**
Date Sampled: **06/24/2021 1810**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-004**
Matrix: **Solid**
% Solids: **89.0** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1957	JM1		97424	5.66

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**57**		**20**	**7.9**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**5.1**	**J**	**20**	**4.0**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	↙	5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.9	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.9	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	↙	5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

maB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-106-SO (1-3)**
Date Sampled: **06/24/2021 1810**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-004**
Matrix: **Solid**
% Solids: **89.0** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1957	JM1		97424	5.66

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.9	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		113	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-102-SS (1-1.5)**
Date Sampled: **06/24/2021 1700**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-005**
Matrix: **Solid**
% Solids: **87.4** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2021	JM1		97424	6.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**36**		**17**	**6.6**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.1	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.1	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.1	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.1	2.5	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		17	3.3	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.1	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.1	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.1	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.1	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.1	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.1	2.5	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.1	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.1	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.1	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.1	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	↙	4.1	2.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.1	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.1	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.1	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.1	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.1	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.1	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.3	3.3	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.1	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.1	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.1	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.3	3.3	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	↙	4.1	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.1	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.1	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.1	1.7	ug/kg	1
Tetrachloroethene	**127-18-4**	**8260D**	**3.0**	**J**	**4.1**	**1.7**	**ug/kg**	**1**
Toluene	108-88-3	8260D	ND		4.1	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-102-SS (1-1.5)**
Date Sampled: **06/24/2021 1700**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-005**
Matrix: **Solid**
% Solids: **87.4** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2021	JM1		97424	6.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.1	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.1	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.1	1.7	ug/kg	1
1,1,2-Trichloroethane	**79-00-5**	**8260D**	**3.2**	**J**	**4.1**	**1.7**	**ug/kg**	**1**
Trichloroethene	79-01-6	8260D	ND		4.1	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.1	1.7	ug/kg	1
Vinyl chloride	**75-01-4**	**8260D**	**3.6**	**J**	**4.1**	**2.5**	**ug/kg**	**1**
Xylenes (total)	1330-20-7	8260D	ND		8.3	3.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		115	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-06-20-21-GW**
Date Sampled: **06/24/2021 1410**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1617	TML		98213

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**6.8**	**J**	**20**	**5.0**	**ug/L**	**1**
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**0.47**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-06-20-21-GW**
Date Sampled: **06/24/2021 1410**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-006**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1617	TML		98213

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0131	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**1.9**	**J**	**3.0**	**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/06/2021 1142	TML		97890

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	**74-84-0**	**RSK - 175**	**2.8**	**J**	**10**	**2.5**	**ug/L**	**2**
Ethene	**74-85-1**	**RSK - 175**	**3.0**	**J**	**10**	**2.5**	**ug/L**	**2**
Methane	**74-82-8**	**RSK - 175**	**9.3**	**J**	**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MQB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-101-SS (1-3)**
Date Sampled: **06/25/2021 0915**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-007**
Matrix: **Solid**
% Solids: **88.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2044	JM1		97424	4.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		25	10	ug/kg	1
Benzene	71-43-2	8260D	ND		6.3	2.5	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		6.3	2.5	ug/kg	1
Bromoform	75-25-2	8260D	ND		6.3	2.5	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		6.3	3.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		25	5.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		6.3	2.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		6.3	2.5	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		6.3	2.5	ug/kg	1
Chloroethane	75-00-3	8260D	ND		6.3	2.5	ug/kg	1
Chloroform	67-66-3	8260D	ND		6.3	2.5	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		6.3	3.8	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		6.3	2.5	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		6.3	2.5	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		6.3	2.5	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		6.3	2.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	✓	6.3	3.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		6.3	2.5	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		6.3	2.5	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		6.3	2.5	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		6.3	2.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		6.3	2.5	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		6.3	2.5	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		6.3	2.5	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		13	5.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		6.3	2.5	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		6.3	2.5	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		6.3	2.5	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		13	5.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	✓	6.3	2.5	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		6.3	2.5	ug/kg	1
Styrene	100-42-5	8260D	ND		6.3	2.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		6.3	2.5	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		6.3	2.5	ug/kg	1
Toluene	108-88-3	8260D	ND		6.3	2.5	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **SB-101-SS (1-3)**
Date Sampled: **06/25/2021 0915**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-007**
Matrix: **Solid**
% Solids: **88.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2044	JM1		97424	4.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		6.3	2.5	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		6.3	2.5	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		6.3	2.5	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		6.3	2.5	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		6.3	2.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		6.3	2.5	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		6.3	3.8	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		13	5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-01-10-11-SS**
Date Sampled: **06/25/2021 0930**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-008**
Matrix: **Solid**
% Solids: **85.0** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2339	JM1		97504	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		28	11	ug/kg	1
Benzene	71-43-2	8260D	ND		6.9	2.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		6.9	2.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		6.9	2.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		6.9	4.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		28	5.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		6.9	2.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		6.9	2.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		6.9	2.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		6.9	2.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		6.9	2.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		6.9	4.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		6.9	2.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		6.9	2.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		6.9	2.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		6.9	2.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		6.9	4.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		6.9	2.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		6.9	2.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		6.9	2.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		6.9	2.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		6.9	2.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		6.9	2.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		6.9	2.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		14	5.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		6.9	2.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		6.9	2.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		6.9	2.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		14	5.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		6.9	2.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		6.9	2.8	ug/kg	1
Styrene	100-42-5	8260D	ND		6.9	2.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		6.9	2.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		6.9	2.8	ug/kg	1
Toluene	108-88-3	8260D	ND		6.9	2.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-01-10-11-SS**
Date Sampled: **06/25/2021 0930**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-008**
Matrix: **Solid**
% Solids: **85.0** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2339	JM1		97504	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		6.9	2.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		6.9	2.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		6.9	2.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		6.9	2.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		6.9	2.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		6.9	2.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		6.9	4.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		14	5.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **DP-01-20-GW**
Date Sampled: **06/25/2021 0945**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0439	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**13**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**1.5**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-01-20-GW**
Date Sampled: **06/25/2021 0945**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-009**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0439	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**4.2**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0156	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0927	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**3.7**	**J**	**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-08-10-SS**
Date Sampled: **06/25/2021 1020**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-010**
Matrix: **Solid**
% Solids: **83.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0003	JM1		97504	6.71

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		18	7.1	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-08-10-SS**
Date Sampled: **06/25/2021 1020**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-010**
Matrix: **Solid**
% Solids: **83.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0003	JM1		97504	6.71

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.9	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		121	47-138
1,2-Dichloroethane-d4		112	53-142
Toluene-d8		109	68-124

LOQ = Limit of Quantitation
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **EB-01-062521**
Date Sampled: **06/25/2021 1100**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-011**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0414	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **EB-01-062521**
Date Sampled: **06/25/2021 1100**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-011**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0414	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 2238	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0943	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	ND		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04 (1-3) SS**
Date Sampled: **06/25/2021 1100**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-012**
Matrix: **Solid**
% Solids: **78.2** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0027	JM1		97504	6.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**19**	**J**	**20**	**7.9**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.9	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.9	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04 (1-3) SS**
Date Sampled: **06/25/2021 1100**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-012**
Matrix: **Solid**
% Solids: **78.2** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0027	JM1		97504	6.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.9	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		121	47-138
1,2-Dichloroethane-d4		125	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK**
Date Sampled: **06/25/2021 1145**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-013**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1039	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **TRIP BLANK**
Date Sampled: **06/25/2021 1145**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-013**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1039	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-4D**
Date Sampled: **06/25/2021 0920**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-014**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	07/01/2021 2155	DAK		97676
1		(Chloride) 9056A	1	06/26/2021 1854	AMR		97480
1		(Nitrate - N) 9056A	1	06/26/2021 1854	AMR		97479
1		(Sulfate) 9056A	1	06/26/2021 1854	AMR		97481
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1410	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**1.8**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		**9056A**	**0.015**	**J**	**0.020**	**0.0050**	**mg/L**	**1**
Sulfate		**9056A**	**0.93**	**J**	**1.0**	**0.25**	**mg/L**	**1**
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		**9060A**	**1.7**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1238	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 1.642 - 1.676

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **MW-4D**
Date Sampled: **06/25/2021 0920**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-014**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1238	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	**75-35-4**	**8260D**	**0.47**	**J**	**1.0**	**0.40**	**ug/L**	**1**
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**19**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**0.73**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		110	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0221	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-4D**
Date Sampled: **06/25/2021 0920**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-014**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0959	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	ND		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-1D**
Date Sampled: **06/25/2021 1045**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-015**
Matrix: **Aqueous**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	07/01/2021 2202	DAK		97676
1		(Chloride) 9056A	1	06/26/2021 1957	AMR		97480
1		(Nitrate - N) 9056A	1	06/26/2021 1957	AMR		97479
1		(Sulfate) 9056A	1	06/26/2021 1957	AMR		97481
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1434	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		**9056A**	**2.2**		**1.0**	**0.25**	**mg/L**	**1**
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		**9056A**	**0.74**	**J**	**1.0**	**0.25**	**mg/L**	**1**
Sulfide	**18496-25-8**	**SM 4500-S2 F-2**	**1.3**		**1.0**	**1.0**	**mg/L**	**1**
TOC		**9060A**	**2.8**		**1.0**	**0.42**	**mg/L**	**1**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1302	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 2.776 - 2.82

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-1D**
Date Sampled: **06/25/2021 1045**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-015**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1302	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**0.94**	**J**	**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**62**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**9.1**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		107	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0246	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
2/23/21

Client: **EarthCon Consultants, Inc.**
Description: **MW-1D**
Date Sampled: **06/25/2021 1045**
Date Received: **06/25/2021**

Laboratory ID: **WF26008-015**
Matrix: **Aqueous**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1015	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**2.6**	**J**	**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04-10-11-SS**
Date Sampled: **06/25/2021 1130**
Date Received: **06/26/2021**

Laboratory ID: **WF26008-016**
Matrix: **Solid**
% Solids: **86.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0051	JM1		97504	6.37

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**17**	**J**	**18**	**7.3**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.1	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.1	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04-10-11-SS**
Date Sampled: **06/25/2021 1130**
Date Received: **06/26/2021**

Laboratory ID: **WF26008-016**
Matrix: **Solid**
% Solids: **86.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0051	JM1		97504	6.37

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.1	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		108	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-08-20-GW**
Date Sampled: **06/25/2021 1045**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0349	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**1.1**		**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-08-20-GW**
Date Sampled: **06/25/2021 1045**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-001**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0349	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0310	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1118	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**6.7**	**J**	**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-10 (1-3)-SS**
Date Sampled: **06/25/2021 1220**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-002**
Matrix: **Solid**
% Solids: **90.4** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0155	CJL2		97675	6.60

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**43**		**17**	**6.7**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.2	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.2	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.2	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.2	2.5	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**3.8**	**J**	**17**	**3.4**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		4.2	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.2	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.2	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.2	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.2	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.2	2.5	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.2	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.2	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.2	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.2	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.2	2.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.2	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.2	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.2	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.2	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.2	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.2	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.2	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.4	3.4	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.2	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.2	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.2	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.4	3.4	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.2	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.2	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.2	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.2	1.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.2	1.7	ug/kg	1
Toluene	108-88-3	8260D	ND		4.2	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-10 (1-3)-SS**
Date Sampled: **06/25/2021 1220**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-002**
Matrix: **Solid**
% Solids: **90.4** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0155	CJL2		97675	6.60

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.2	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.2	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.2	1.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.2	1.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.2	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.2	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.2	2.5	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.4	3.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04-20-GW**
Date Sampled: **06/25/2021 1150**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1326	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**0.40**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260D**	**0.70**	**J**	**1.0**	**0.40**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**12**		**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	**127-18-4**	**8260D**	**1.2**		**1.0**	**0.40**	**ug/L**	**1**
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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E = Quantitation of compound exceeded the calibration range
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-04-20-GW**
Date Sampled: **06/25/2021 1150**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-004**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1326	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	**79-01-6**	**8260D**	**2.6**		**1.0**	**0.40**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0335	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1134	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	**74-84-0**	**RSK - 175**	**6.2**	**J**	**10**	**2.5**	**ug/L**	**2**
Ethene	**74-85-1**	**RSK - 175**	**5.2**	**J**	**10**	**2.5**	**ug/L**	**2**
Methane	**74-82-8**	**RSK - 175**	**16**		**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05 (1-3')-SS**
Date Sampled: **06/25/2021 1315**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-005**
Matrix: **Solid**
% Solids: **89.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	1	07/08/2021 1350	JM1		98261	6.42

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		980	390	ug/kg	3
Benzene	71-43-2	8260D	ND		250	98	ug/kg	3
Bromodichloromethane	75-27-4	8260D	ND		250	98	ug/kg	3
Bromoform	75-25-2	8260D	ND		250	98	ug/kg	3
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		250	150	ug/kg	3
2-Butanone (MEK)	78-93-3	8260D	ND		980	200	ug/kg	3
Carbon disulfide	75-15-0	8260D	ND		250	98	ug/kg	3
Carbon tetrachloride	56-23-5	8260D	ND		250	98	ug/kg	3
Chlorobenzene	108-90-7	8260D	ND		250	98	ug/kg	3
Chloroethane	75-00-3	8260D	ND		250	98	ug/kg	3
Chloroform	67-66-3	8260D	ND		250	98	ug/kg	3
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		250	150	ug/kg	3
Cyclohexane	110-82-7	8260D	ND	↙	250	98	ug/kg	3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		250	98	ug/kg	3
Dibromochloromethane	124-48-1	8260D	ND		250	98	ug/kg	3
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		250	98	ug/kg	3
1,2-Dichlorobenzene	95-50-1	8260D	ND		250	98	ug/kg	3
1,3-Dichlorobenzene	541-73-1	8260D	ND		250	98	ug/kg	3
1,4-Dichlorobenzene	106-46-7	8260D	ND		250	98	ug/kg	3
Dichlorodifluoromethane	75-71-8	8260D	ND		250	150	ug/kg	3
1,1-Dichloroethane	75-34-3	8260D	ND		250	98	ug/kg	3
1,2-Dichloroethane	107-06-2	8260D	ND		250	98	ug/kg	3
1,1-Dichloroethene	75-35-4	8260D	ND		250	98	ug/kg	3
cis-1,2-Dichloroethene	156-59-2	8260D	ND		250	98	ug/kg	3
trans-1,2-Dichloroethene	156-60-5	8260D	ND		250	98	ug/kg	3
1,2-Dichloropropane	78-87-5	8260D	ND		250	98	ug/kg	3
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		250	98	ug/kg	3
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		250	98	ug/kg	3
Ethylbenzene	**100-41-4**	**8260D**	**210**	**J**	**250**	**98**	**ug/kg**	**3**
2-Hexanone	591-78-6	8260D	ND		490	200	ug/kg	3
Isopropylbenzene	**98-82-8**	**8260D**	**8100**		**250**	**98**	**ug/kg**	**3**
Methyl acetate	**79-20-9**	**8260D**	**200**	**J**	**250**	**98**	**ug/kg**	**3**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		250	98	ug/kg	3
4-Methyl-2-pentanone	108-10-1	8260D	ND		490	200	ug/kg	3
Methylcyclohexane	108-87-2	8260D	ND		250	98	ug/kg	3
Methylene chloride	75-09-2	8260D	ND		250	98	ug/kg	3
Styrene	100-42-5	8260D	ND		250	98	ug/kg	3
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		250	98	ug/kg	3
Tetrachloroethene	127-18-4	8260D	ND		250	98	ug/kg	3
Toluene	108-88-3	8260D	ND		250	98	ug/kg	3

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05 (1-3')-SS**
Date Sampled: **06/25/2021 1315**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-005**
Matrix: **Solid**
% Solids: **89.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	1	07/08/2021 1350	JM1		98261	6.42

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		250	98	ug/kg	3
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		250	98	ug/kg	3
1,1,1-Trichloroethane	71-55-6	8260D	ND		250	98	ug/kg	3
1,1,2-Trichloroethane	79-00-5	8260D	ND		250	98	ug/kg	3
Trichloroethene	79-01-6	8260D	ND		250	98	ug/kg	3
Trichlorofluoromethane	75-69-4	8260D	ND		250	98	ug/kg	3
Vinyl chloride	75-01-4	8260D	ND		250	150	ug/kg	3
Xylenes (total)	**1330-20-7**	**8260D**	**3600**		**490**	**200**	**ug/kg**	**3**

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		117	53-142
Toluene-d8		118	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05 (10-11')-SS**
Date Sampled: **06/25/2021 1330**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-006**
Matrix: **Solid**
% Solids: **82.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0217	CJL2		97675	6.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		17	6.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.3	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.3	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.3	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.3	2.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		17	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.3	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.3	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.3	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.3	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.3	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.3	2.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.3	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.3	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.3	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.3	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.3	2.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.3	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.3	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.3	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.3	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.3	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.7	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.3	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.3	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.3	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.7	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.3	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.3	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.3	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.3	1.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.3	1.7	ug/kg	1
Toluene	108-88-3	8260D	ND		4.3	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05 (10-11')-SS**
Date Sampled: **06/25/2021 1330**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-006**
Matrix: **Solid**
% Solids: **82.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0217	CJL2		97675	6.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.3	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.3	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.3	1.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.3	1.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.3	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.3	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.3	2.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.7	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		103	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **DP-10-20-GW**
Date Sampled: **06/25/2021 1245**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-007**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1349	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	**67-66-3**	**8260D**	**0.50**	**J**	**1.0**	**0.40**	**ug/L**	**1**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260D**	**7.2**		**1.0**	**0.40**	**ug/L**	**1**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**0.66**	**J**	**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
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MaB 7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-07 (1-3)-SS**
Date Sampled: **06/25/2021 1500**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-008**
Matrix: **Solid**
% Solids: **81.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0240	CJL2		97675	5.49

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**48**		**22**	**8.9**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.6	2.2	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.6	2.2	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.6	2.2	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.6	3.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		22	4.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.6	2.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.6	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.6	2.2	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.6	2.2	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.6	2.2	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.6	3.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.6	2.2	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.6	2.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.6	2.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.6	2.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.6	3.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.6	2.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.6	2.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.6	2.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.6	2.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.6	2.2	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.6	2.2	ug/kg	1
Ethylbenzene	**100-41-4**	**8260D**	**4.6**	**J**	**5.6**	**2.2**	**ug/kg**	**1**
2-Hexanone	591-78-6	8260D	ND		11	4.5	ug/kg	1
Isopropylbenzene	**98-82-8**	**8260D**	**57**		**5.6**	**2.2**	**ug/kg**	**1**
Methyl acetate	79-20-9	8260D	ND		5.6	2.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.6	2.2	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.5	ug/kg	1
Methylcyclohexane	**108-87-2**	**8260D**	**4.8**	**J**	**5.6**	**2.2**	**ug/kg**	**1**
Methylene chloride	75-09-2	8260D	ND		5.6	2.2	ug/kg	1
Styrene	100-42-5	8260D	ND		5.6	2.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.6	2.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.6	2.2	ug/kg	1
Toluene	108-88-3	8260D	ND		5.6	2.2	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-07 (1-3)-SS**
Date Sampled: **06/25/2021 1500**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-008**
Matrix: **Solid**
% Solids: **81.7** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0240	CJL2		97675	5.49

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.6	2.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.6	2.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.6	2.2	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.6	2.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.6	2.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.6	2.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.6	3.3	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260D**	**7.7**	**J**	**11**	**4.5**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		94	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-07 (10-11)-SS**
Date Sampled: **06/25/2021 1510**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-009**
Matrix: **Solid**
% Solids: **82.9** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0303	CJL2		97675	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.0	ug/kg	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-07 (10-11)-SS**
Date Sampled: **06/25/2021 1510**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-009**
Matrix: **Solid**
% Solids: **82.9** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0303	CJL2		97675	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		101	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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E = Quantitation of compound exceeded the calibration range
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05-20-GW**
Date Sampled: **06/25/2021 1410**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-010**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 1724	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		100	25	ug/L	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		10	3.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**2.4**	**J**	**5.0**	**2.0**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/L	1
Ethylbenzene	**100-41-4**	**8260D**	**16**		**5.0**	**2.0**	**ug/L**	**1**
2-Hexanone	591-78-6	8260D	ND		50	10	ug/L	1
Isopropylbenzene	**98-82-8**	**8260D**	**690**		**5.0**	**2.0**	**ug/L**	**1**
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND		5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/L	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-05-20-GW**
Date Sampled: **06/25/2021 1410**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-010**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 1724	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		5.0	2.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260D**	**410**		**5.0**	**2.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		112	70-130
Toluene-d8		107	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0424	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**5.0**		**3.0**	**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1046	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**420**		**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (1-3)-SS**
Date Sampled: **06/25/2021 1540**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-011**
Matrix: **Solid**
% Solids: **91.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0325	CJL2		97675	5.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**56**		**21**	**8.4**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		5.3	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.3	2.1	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.3	2.1	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.3	3.2	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**5.3**	**J**	**21**	**4.2**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		5.3	2.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.3	2.1	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.3	2.1	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.3	2.1	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.3	2.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.3	3.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.3	2.1	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.3	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.3	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.3	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.3	3.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.3	2.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.3	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.3	2.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.3	2.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.3	2.1	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.3	2.1	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.3	2.1	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.2	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.3	2.1	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.3	2.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.3	2.1	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.2	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.3	2.1	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.3	2.1	ug/kg	1
Styrene	100-42-5	8260D	ND		5.3	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.3	2.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.3	2.1	ug/kg	1
Toluene	108-88-3	8260D	ND		5.3	2.1	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (1-3)-SS**
Date Sampled: **06/25/2021 1540**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-011**
Matrix: **Solid**
% Solids: **91.5** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0325	CJL2		97675	5.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.3	2.1	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.3	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.3	2.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.3	2.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.3	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.3	2.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.3	3.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DUP-02-SO**
Date Sampled: **06/25/2021**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-012**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0348	CJL2		97675	5.91

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**56**		**19**	**7.8**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		4.8	1.9	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.8	1.9	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.8	1.9	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.8	2.9	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260D**	**5.1**	**J**	**19**	**3.9**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260D	ND		4.8	1.9	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.8	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.8	1.9	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.8	1.9	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.8	1.9	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.8	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.8	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.8	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.8	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.8	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.8	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	1.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.8	1.9	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.8	1.9	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.8	1.9	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.8	1.9	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.7	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.8	1.9	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.8	1.9	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.8	1.9	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.7	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.8	1.9	ug/kg	1
Methylene chloride	**75-09-2**	**8260D**	**1.9**	**J**	**4.8**	**1.9**	**ug/kg**	**1**
Styrene	100-42-5	8260D	ND		4.8	1.9	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.8	1.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	1.9	ug/kg	1
Toluene	108-88-3	8260D	ND		4.8	1.9	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
10/20/21

Client: **EarthCon Consultants, Inc.**
Description: **DUP-02-SO**
Date Sampled: **06/25/2021**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-012**
Matrix: **Solid**
% Solids: **87.3** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0348	CJL2		97675	5.91

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.8	1.9	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.8	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.8	1.9	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.8	1.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.8	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.7	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		111	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (10-11)-SS**
Date Sampled: **06/25/2021 1545**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-013**
Matrix: **Solid**
% Solids: **87.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0410	CJL2		97675	5.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.2	ug/kg	1
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.1	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (10-11)-SS**
Date Sampled: **06/25/2021 1545**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-013**
Matrix: **Solid**
% Solids: **87.6** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0410	CJL2		97675	5.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.1	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-07-20-21-GW**
Date Sampled: **06/25/2021 1520**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-014**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	1	07/14/2021 1353	TML		98830

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND	H UJ	20	5.0	ug/L	2
Benzene	71-43-2	8260D	ND	H	1.0	0.40	ug/L	2
Bromodichloromethane	75-27-4	8260D	ND	H	1.0	0.40	ug/L	2
Bromoform	75-25-2	8260D	ND	H	1.0	0.40	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260D	ND	H	2.0	0.40	ug/L	2
2-Butanone (MEK)	78-93-3	8260D	ND	H	10	2.0	ug/L	2
Carbon disulfide	75-15-0	8260D	ND	H	1.0	0.40	ug/L	2
Carbon tetrachloride	56-23-5	8260D	ND	H	1.0	0.40	ug/L	2
Chlorobenzene	108-90-7	8260D	ND	H	1.0	0.40	ug/L	2
Chloroethane	75-00-3	8260D	ND	H	2.0	0.40	ug/L	2
Chloroform	**67-66-3**	**8260D**	**0.42**	**HJ J**	**1.0**	**0.40**	**ug/L**	**2**
Chloromethane (Methyl chloride)	74-87-3	8260D	ND	H UJ	1.0	0.50	ug/L	2
Cyclohexane	110-82-7	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND	H	1.0	0.40	ug/L	2
Dibromochloromethane	124-48-1	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260D	ND	H	1.0	0.40	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260D	ND	H	1.0	0.40	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260D	ND	H	1.0	0.40	ug/L	2
Dichlorodifluoromethane	75-71-8	8260D	ND	H	2.0	0.60	ug/L	2
1,1-Dichloroethane	**75-34-3**	**8260D**	**1.2**	**H J**	**1.0**	**0.40**	**ug/L**	**2**
1,2-Dichloroethane	107-06-2	8260D	ND	H UJ	1.0	0.40	ug/L	2
1,1-Dichloroethene	**75-35-4**	**8260D**	**0.79**	**HJ J**	**1.0**	**0.40**	**ug/L**	**2**
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**14**	**H J**	**1.0**	**0.40**	**ug/L**	**2**
trans-1,2-Dichloroethene	156-60-5	8260D	ND	H UJ	1.0	0.40	ug/L	2
1,2-Dichloropropane	78-87-5	8260D	ND	H	1.0	0.40	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260D	ND	H	1.0	0.40	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260D	ND	H	1.0	0.40	ug/L	2
Ethylbenzene	**100-41-4**	**8260D**	**3.0**	**H J**	**1.0**	**0.40**	**ug/L**	**2**
2-Hexanone	591-78-6	8260D	ND	H UJ	10	2.0	ug/L	2
Isopropylbenzene	**98-82-8**	**8260D**	**2.9**	**H J**	**1.0**	**0.40**	**ug/L**	**2**
Methyl acetate	79-20-9	8260D	ND	H UJ	1.0	0.40	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND	H	1.0	0.40	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260D	ND	H	10	2.0	ug/L	2
Methylcyclohexane	108-87-2	8260D	ND	H	5.0	0.40	ug/L	2
Methylene chloride	75-09-2	8260D	ND	H	1.0	0.40	ug/L	2
Styrene	100-42-5	8260D	ND	H	1.0	0.41	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND	H	1.0	0.40	ug/L	2
Tetrachloroethene	**127-18-4**	**8260D**	**0.83**	**HJ J**	**1.0**	**0.40**	**ug/L**	**2**
Toluene	108-88-3	8260D	ND	H UJ	1.0	0.40	ug/L	2

LOQ = Limit of Quantitation
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MAB
7/23/21

Client: EarthCon Consultants, Inc. Laboratory ID: WI20011-014

Description: **DP-07-20-21-GW** Matrix: **Aqueous**

Date Sampled: **06/25/2021 1520**

Date Received: **06/25/2021**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	1	07/14/2021 1353	TML		98830

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND	~~H~~ UJ	1.0	0.42	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260D	ND	~~H~~	1.0	0.40	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260D	ND	~~H~~	1.0	0.40	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260D	ND	~~H~~	1.0	0.40	ug/L	2
Trichloroethene	**79-01-6**	**8260D**	**0.65**	~~HJ~~ J	**1.0**	**0.40**	**ug/L**	**2**
Trichlorofluoromethane	75-69-4	8260D	ND	~~H~~ UJ	1.0	0.40	ug/L	2
Vinyl chloride	**75-01-4**	**8260D**	**6.4**	~~H~~ J	**1.0**	**0.40**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260D**	**8.4**	~~H~~ J	**1.0**	**0.40**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene	H	104	70-130
1,2-Dichloroethane-d4	H	110	70-130
Toluene-d8	H	106	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0449	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**1.6**	**J**	**3.0**	**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1102	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**9.4**	**J**	**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-11 (10-11)-SS**
Date Sampled: **06/25/2021 1650**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-015**
Matrix: **Solid**
% Solids: **83.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0433	CJL2		97675	7.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**32**		**15**	**6.1**	**ug/kg**	**1**
Benzene	71-43-2	8260D	ND		3.8	1.5	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		3.8	1.5	ug/kg	1
Bromoform	75-25-2	8260D	ND		3.8	1.5	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		3.8	2.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		15	3.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		3.8	1.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		3.8	1.5	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		3.8	1.5	ug/kg	1
Chloroethane	75-00-3	8260D	ND		3.8	1.5	ug/kg	1
Chloroform	67-66-3	8260D	ND		3.8	1.5	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		3.8	2.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		3.8	1.5	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		3.8	1.5	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		3.8	1.5	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		3.8	1.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		3.8	2.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		3.8	1.5	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		3.8	1.5	ug/kg	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**26**		**3.8**	**1.5**	**ug/kg**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		3.8	1.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		3.8	1.5	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		3.8	1.5	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		3.8	1.5	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		7.7	3.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		3.8	1.5	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		3.8	1.5	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		3.8	1.5	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		7.7	3.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		3.8	1.5	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		3.8	1.5	ug/kg	1
Styrene	100-42-5	8260D	ND		3.8	1.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		3.8	1.5	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		3.8	1.5	ug/kg	1
Toluene	108-88-3	8260D	ND		3.8	1.5	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-11 (10-11)-SS**
Date Sampled: **06/25/2021 1650**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-015**
Matrix: **Solid**
% Solids: **83.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0433	CJL2		97675	7.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		3.8	1.5	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		3.8	1.5	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		3.8	1.5	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		3.8	1.5	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		3.8	1.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		3.8	1.5	ug/kg	1
Vinyl chloride	**75-01-4**	**8260D**	**5.0**		**3.8**	**2.3**	**ug/kg**	**1**
Xylenes (total)	1330-20-7	8260D	ND		7.7	3.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		109	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-11 (20-21)-SS**
Date Sampled: **06/25/2021 1715**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-016**
Matrix: **Solid**
% Solids: **81.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0456	CJL2		97675	6.22

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	2.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.8	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.8	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-11 (20-21)-SS**
Date Sampled: **06/25/2021 1715**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-016**
Matrix: **Solid**
% Solids: **81.8** **06/26/2021 1851**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0456	CJL2		97675	6.22

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.8	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
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MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (20-21)GW**
Date Sampled: **06/25/2021 1600**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-017**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1413	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	**67-64-1**	**8260D**	**6.0**	**J**	**20**	**5.0**	**ug/L**	**1**
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260D**	**0.91**	**J**	**1.0**	**0.40**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-09 (20-21)GW**
Date Sampled: **06/25/2021 1600**
Date Received: **06/25/2021**

Laboratory ID: **WF26011-017**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1413	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	**75-01-4**	**8260D**	**2.3**		**1.0**	**0.40**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0514	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	**123-91-1**	**8260D (SIM)**	**21**		**3.0**	**1.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1150	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	**74-82-8**	**RSK - 175**	**290**		**10**	**2.5**	**ug/L**	**2**
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MaB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-10 (10-11)-SS**
Date Sampled: **06/25/2021 1230**
Date Received: **06/29/2021**

Laboratory ID: **WF29028-001**
Matrix: **Solid**
% Solids: **84.6** **06/30/2021 2251**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/06/2021 1259	JM1		97945	5.61

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		21	8.4	ug/kg	1
Benzene	71-43-2	8260D	ND		5.3	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.3	2.1	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.3	2.1	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.3	3.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		21	4.2	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.3	2.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.3	2.1	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.3	2.1	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.3	2.1	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.3	2.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.3	3.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.3	2.1	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.3	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.3	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.3	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.3	3.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.3	2.1	ug/kg	1
1,1-Dichloroethene	**75-35-4**	**8260D**	**53**		**5.3**	**2.1**	**ug/kg**	**1**
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.3	2.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.3	2.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.3	2.1	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.3	2.1	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.3	2.1	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.2	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.3	2.1	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.3	2.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.3	2.1	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.2	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.3	2.1	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.3	2.1	ug/kg	1
Styrene	100-42-5	8260D	ND		5.3	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.3	2.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.3	2.1	ug/kg	1
Toluene	108-88-3	8260D	ND		5.3	2.1	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

MAB
7/23/21

Client: **EarthCon Consultants, Inc.**
Description: **DP-10 (10-11)-SS**
Date Sampled: **06/25/2021 1230**
Date Received: **06/29/2021**

Laboratory ID: **WF29028-001**
Matrix: **Solid**
% Solids: **84.6** **06/30/2021 2251**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/06/2021 1259	JM1		97945	5.61

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.3	2.1	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.3	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.3	2.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.3	2.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.3	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.3	2.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.3	3.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		110	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		110	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MAB
7/23/21

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 201600378

Lot Number:**WF22061**

Date Completed:07/02/2021

07/06/2021 1:50 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF22061

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary
EarthCon Consultants, Inc.
Lot Number: WF22061

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-01D-16.2'	Aqueous	06/21/2021 1620	06/22/2021
002	MW-01D-36.2'	Aqueous	06/21/2021 1635	06/22/2021
003	MW-04D-16'	Aqueous	06/21/2021 1505	06/22/2021
004	MW-04D-36'	Aqueous	06/21/2021 1520	06/22/2021
005	MW-04D-56'	Aqueous	06/21/2021 1535	06/22/2021
006	MW-2	Aqueous	06/22/2021 1435	06/22/2021
007	MW-2D	Aqueous	06/22/2021 1345	06/22/2021
008	MW-15	Aqueous	06/22/2021 0950	06/22/2021
009	MW-16	Aqueous	06/22/2021 1050	06/22/2021
010	MW-17	Aqueous	06/22/2021 1200	06/22/2021
011	MW-8	Aqueous	06/22/2021 1100	06/22/2021
012	MW-7	Aqueous	06/22/2021 1235	06/22/2021
013	TRIP BLANK	Aqueous	06/22/2021	06/22/2021

(13 samples)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF22061

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-01D-16.2'	Aqueous	Tetrachloroethene	8260D	3.1		ug/L	6
001	MW-01D-16.2'	Aqueous	Trichloroethene	8260D	1.3		ug/L	7
001	MW-01D-16.2'	Aqueous	Methane	RSK - 175	6.1	J	ug/L	7
002	MW-01D-36.2'	Aqueous	Tetrachloroethene	8260D	3.5		ug/L	8
002	MW-01D-36.2'	Aqueous	Trichloroethene	8260D	1.4		ug/L	9
002	MW-01D-36.2'	Aqueous	Methane	RSK - 175	3.3	J	ug/L	9
003	MW-04D-16'	Aqueous	Tetrachloroethene	8260D	2.1		ug/L	10
003	MW-04D-16'	Aqueous	Methane	RSK - 175	3.0	J	ug/L	11
004	MW-04D-36'	Aqueous	Tetrachloroethene	8260D	4.7		ug/L	12
004	MW-04D-36'	Aqueous	Methane	RSK - 175	2.6	J	ug/L	13
005	MW-04D-56'	Aqueous	Tetrachloroethene	8260D	4.0		ug/L	14
005	MW-04D-56'	Aqueous	Methane	RSK - 175	2.9	J	ug/L	15
006	MW-2	Aqueous	Chloride	9056A	7.1		mg/L	16
006	MW-2	Aqueous	Nitrate - N	9056A	1.5		mg/L	16
006	MW-2	Aqueous	Sulfide	SM 4500-S2 F-	1.7		mg/L	16
006	MW-2	Aqueous	Methane	RSK - 175	2.7	J	ug/L	18
007	MW-2D	Aqueous	Chloride	9056A	2.9		mg/L	19
007	MW-2D	Aqueous	Nitrate - N	9056A	0.25		mg/L	19
007	MW-2D	Aqueous	Sulfate	9056A	1.3		mg/L	19
007	MW-2D	Aqueous	Sulfide	SM 4500-S2 F-	1.6		mg/L	19
007	MW-2D	Aqueous	Methane	RSK - 175	3.4	J	ug/L	21
008	MW-15	Aqueous	Chloride	9056A	4.3		mg/L	22
008	MW-15	Aqueous	Sulfate	9056A	12		mg/L	22
008	MW-15	Aqueous	Sulfide	SM 4500-S2 F-	4.5		mg/L	22
008	MW-15	Aqueous	Methane	RSK - 175	5.3	J	ug/L	24
009	MW-16	Aqueous	Chloride	9056A	13		mg/L	25
009	MW-16	Aqueous	Nitrate - N	9056A	5.6		mg/L	25
009	MW-16	Aqueous	Sulfide	SM 4500-S2 F-	1.1		mg/L	25
009	MW-16	Aqueous	Chloroform	8260D	1.6		ug/L	25
009	MW-16	Aqueous	Methane	RSK - 175	3.3	J	ug/L	27
010	MW-17	Aqueous	Chloride	9056A	8.3		mg/L	28
010	MW-17	Aqueous	Nitrate - N	9056A	1.8		mg/L	28
010	MW-17	Aqueous	Sulfate	9056A	0.29	J	mg/L	28
010	MW-17	Aqueous	Chloroform	8260D	0.81	J	ug/L	28
010	MW-17	Aqueous	Methane	RSK - 175	3.2	J	ug/L	30
011	MW-8	Aqueous	Chloride	9056A	1.1		mg/L	31
011	MW-8	Aqueous	Nitrate - N	9056A	0.51		mg/L	31
011	MW-8	Aqueous	Sulfate	9056A	4.3		mg/L	31
011	MW-8	Aqueous	TOC	9060A	6.7		mg/L	31
011	MW-8	Aqueous	Methane	RSK - 175	2.8	J	ug/L	33
012	MW-7	Aqueous	Alkalinity @ pH 4.5 su	SM 2320B-	22		mg CaCO3/L	34
012	MW-7	Aqueous	Chloride	9056A	4.7		mg/L	34
012	MW-7	Aqueous	Sulfate	9056A	2.4		mg/L	34
012	MW-7	Aqueous	TOC	9060A	9.1		mg/L	34
012	MW-7	Aqueous	cis-1,2-Dichloroethene	8260D	190		ug/L	35

Detection Summary (Continued)

Lot Number: WF22061

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	MW-7	Aqueous	trans-1,2-Dichloroethene	8260D	0.71	J	ug/L	35
012	MW-7	Aqueous	Ethylbenzene	8260D	7.4		ug/L	35
012	MW-7	Aqueous	Trichloroethene	8260D	0.69	J	ug/L	35
012	MW-7	Aqueous	Vinyl chloride	8260D	21		ug/L	35
012	MW-7	Aqueous	Xylenes (total)	8260D	24		ug/L	35
012	MW-7	Aqueous	Methane	RSK - 175	15		ug/L	36

(51 detections)

Client: EarthCon Consultants, Inc.
Description: MW-01D-16.2'
Date Sampled: 06/21/2021 1620
Date Received: 06/22/2021

Laboratory ID: WF22061-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1210	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	3.1		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: MW-01D-16.2'
Date Sampled: 06/21/2021 1620
Date Received: 06/22/2021

Laboratory ID: WF22061-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1210	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	1.3		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/29/2021 2351	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1022	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	6.1	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-01D-36.2'
Date Sampled: 06/21/2021 1635
Date Received: 06/22/2021

Laboratory ID: WF22061-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1234	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	3.5		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: MW-01D-36.2'
Date Sampled: 06/21/2021 1635
Date Received: 06/22/2021

Laboratory ID: WF22061-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1234	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	1.4		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0016	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1038	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.3	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-04D-16'
Date Sampled: 06/21/2021 1505
Date Received: 06/22/2021

Laboratory ID: WF22061-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1259	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	2.1		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-04D-16'
Date Sampled: 06/21/2021 1505
Date Received: 06/22/2021

Laboratory ID: WF22061-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1259	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0041	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1054	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.0	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-04D-36'
Date Sampled: 06/21/2021 1520
Date Received: 06/22/2021

Laboratory ID: WF22061-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1324	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	4.7		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: MW-04D-36'
Date Sampled: 06/21/2021 1520
Date Received: 06/22/2021

Laboratory ID: WF22061-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1324	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		107	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0105	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1110	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	2.6	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-04D-56'
Date Sampled: 06/21/2021 1535
Date Received: 06/22/2021

Laboratory ID: WF22061-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1348	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	4.0		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: MW-04D-56'
Date Sampled: 06/21/2021 1535
Date Received: 06/22/2021

Laboratory ID: WF22061-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1348	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0130	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1126	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	2.9	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2
Date Sampled: 06/22/2021 1435
Date Received: 06/22/2021

Laboratory ID: WF22061-006
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0614	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1044	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1044	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0541	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0140	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	7.1		1.0	0.25	mg/L	1
Nitrate - N		9056A	1.5		0.020	0.0050	mg/L	1
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.7		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1413	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.027 - 0.076

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2
Date Sampled: 06/22/2021 1435
Date Received: 06/22/2021

Laboratory ID: WF22061-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1413	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		109	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0155	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2
Date Sampled: 06/22/2021 1435
Date Received: 06/22/2021

Laboratory ID: WF22061-006
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1142	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	2.7	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2D
Date Sampled: 06/22/2021 1345
Date Received: 06/22/2021

Laboratory ID: WF22061-007
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0618	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1105	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1105	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0643	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0252	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	2.9		1.0	0.25	mg/L	1
Nitrate - N		9056A	0.25		0.020	0.0050	mg/L	1
Sulfate		9056A	1.3		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.6		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1438	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2D
Date Sampled: 06/22/2021 1345
Date Received: 06/22/2021

Laboratory ID: WF22061-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1438	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		96	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0219	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-2D
Date Sampled: 06/22/2021 1345
Date Received: 06/22/2021

Laboratory ID: WF22061-007
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1158	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.4	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-15
Date Sampled: 06/22/2021 0950
Date Received: 06/22/2021

Laboratory ID: WF22061-008
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0625	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0900	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0900	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0704	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0316	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	4.3		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	12		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	4.5		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1502	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.287 - 0.326

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-15
Date Sampled: 06/22/2021 0950
Date Received: 06/22/2021

Laboratory ID: WF22061-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1502	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0244	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-15
Date Sampled: 06/22/2021 0950
Date Received: 06/22/2021

Laboratory ID: WF22061-008
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1214	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	5.3	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-16
Date Sampled: 06/22/2021 1050
Date Received: 06/22/2021

Laboratory ID: WF22061-009
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0628	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0921	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0921	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0725	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0340	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	13		1.0	0.25	mg/L	1
Nitrate - N		9056A	5.6		0.020	0.0050	mg/L	1
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.1		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1527	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.6		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-16
Date Sampled: 06/22/2021 1050
Date Received: 06/22/2021

Laboratory ID: WF22061-009
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1527	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		102	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0308	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-16
Date Sampled: 06/22/2021 1050
Date Received: 06/22/2021

Laboratory ID: WF22061-009
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1230	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.3	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-17
Date Sampled: 06/22/2021 1200
Date Received: 06/22/2021

Laboratory ID: WF22061-010
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0639	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1003	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1003	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0828	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0404	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	8.3		1.0	0.25	mg/L	1
Nitrate - N		9056A	1.8		0.020	0.0050	mg/L	1
Sulfate		9056A	0.29	J	1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1552	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.81	J	1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-17
Date Sampled: 06/22/2021 1200
Date Received: 06/22/2021

Laboratory ID: WF22061-010
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1552	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0333	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-17
Date Sampled: 06/22/2021 1200
Date Received: 06/22/2021

Laboratory ID: WF22061-010
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1246	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.2	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-8
Date Sampled: 06/22/2021 1100
Date Received: 06/22/2021

Laboratory ID: WF22061-011
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0644	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 0942	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 0942	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0849	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0429	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	1.1		1.0	0.25	mg/L	1
Nitrate - N		9056A	0.51		0.020	0.0050	mg/L	1
Sulfate		9056A	4.3		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	6.7		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1617	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 6.347 - 6.877

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-8
Date Sampled: 06/22/2021 1100
Date Received: 06/22/2021

Laboratory ID: WF22061-011
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1617	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0358	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Laboratory ID: WF22061-011
Description: MW-8
Matrix: Aqueous
Date Sampled: 06/22/2021 1100
Date Received: 06/22/2021

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1302	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	2.8	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: MW-7
Date Sampled: 06/22/2021 1235
Date Received: 06/22/2021

Laboratory ID: WF22061-012
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/24/2021 0651	DAK		96695
1		(Chloride) 9056A	1	06/23/2021 1023	MSG		96562
1		(Nitrate - N) 9056A	1	06/23/2021 1023	MSG		96565
2		(Sulfate) 9056A	1	06/30/2021 0910	AMR		97448
1		(Sulfide) SM 4500-S2 F-2011	1	06/26/2021 1339	GDC		96945
1		(TOC) 9060A	1	06/25/2021 0541	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	22		20	20	mg CaCO3/L	1
Chloride		9056A	4.7		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	2.4		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	9.1		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1642	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 9.016 - 9.081

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-7
Date Sampled: 06/22/2021 1235
Date Received: 06/22/2021

Laboratory ID: WF22061-012
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1642	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	190		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.71	J	1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	7.4		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.69	J	1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	21		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	24		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	06/30/2021 0422	CJL2		97322

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Laboratory ID: WF22061-012
Description: MW-7
Matrix: Aqueous
Date Sampled: 06/22/2021 1235
Date Received: 06/22/2021

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1318	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	15		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TRIP BLANK
Date Sampled: 06/22/2021
Date Received: 06/22/2021

Laboratory ID: WF22061-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1120	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TRIP BLANK
Date Sampled: 06/22/2021
Date Received: 06/22/2021

Laboratory ID: WF22061-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/01/2021 1120	BWS		97592

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		107	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		103	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

Inorganic non-metals - MB

Sample ID: WQ96562-001
Batch: 96562
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Chloride	ND		1	1.0	0.25	mg/L	06/23/2021 0750

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96562-002
Batch: 96562
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	20	20		1	102	80-120	06/23/2021 0832

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96565-001
Batch: 96565
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Nitrate - N	ND		1	0.020	0.0050	mg/L	06/23/2021 0750

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96565-002
Batch: 96565
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	0.80	0.84		1	106	80-120	06/23/2021 0832

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96695-002
Batch: 96695
Analytical Method: SM 2320B-2011
Matrix: Aqueous

Parameter	Spike Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Alkalinity @ pH 4.5 su	100	97		1	97	90-110	06/24/2021 0437

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96702-001
Batch: 96702
Analytical Method: 9060A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
TOC	ND		1	1.0	0.42	mg/L	06/25/2021 0052

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96702-002
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	20	19		1	96	90-110	06/25/2021 0116

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF22061-006MS
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	ND	50	47		1	94	70-130	06/25/2021 0204

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF22061-006MD
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
TOC	ND	50	47		1	94	0.74	70-130	20	06/25/2021 0228

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96945-001
Batch: 96945
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfide	ND		1	1.0	1.0	mg/L	06/26/2021 1339

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96945-002
Batch: 96945
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfide	10	9.8		1	98	80-120	06/26/2021 1339

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WQ96945-003
Batch: 96945
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfide	10	9.8		1	98	0.00	80-120	20	06/26/2021 1339

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97448-001
Batch: 97448
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfate	ND		1	1.0	0.25	mg/L	06/30/2021 0211

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97448-002
Batch: 97448
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	20	20		1	102	80-120	06/30/2021 0459

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WF22061-009MS
Batch: 97448
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	ND	10	10		1	103	80-120	06/30/2021 0746

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF22061-009MD
Batch: 97448
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfate	ND	10	10		1	103	0.65	80-120	20	06/30/2021 0807

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97322-001
Batch: 97322
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	06/29/2021 2123

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97322-002
Batch: 97322
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	43		1	86	70-130	06/29/2021 1939

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		110	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97592-001
Batch: 97592
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/01/2021 0951
Benzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Bromoform	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/01/2021 0951
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/01/2021 0951
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Chloroethane	ND		1	2.0	0.40	ug/L	07/01/2021 0951
Chloroform	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/01/2021 0951
Cyclohexane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/01/2021 0951
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
2-Hexanone	ND		1	10	2.0	ug/L	07/01/2021 0951
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Methyl acetate	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/01/2021 0951
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/01/2021 0951
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/01/2021 0951
Methylene chloride	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Styrene	ND		1	1.0	0.41	ug/L	07/01/2021 0951
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Toluene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/01/2021 0951
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97592-001
Batch: 97592
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/01/2021 0951
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/01/2021 0951

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97592-002
Batch: 97592
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	83		1	83	60-140	07/01/2021 0845
Benzene	50	52		1	103	70-130	07/01/2021 0845
Bromodichloromethane	50	53		1	106	70-130	07/01/2021 0845
Bromoform	50	50		1	100	70-130	07/01/2021 0845
Bromomethane (Methyl bromide)	50	48		1	96	70-130	07/01/2021 0845
2-Butanone (MEK)	100	100		1	104	70-130	07/01/2021 0845
Carbon disulfide	50	51		1	102	70-130	07/01/2021 0845
Carbon tetrachloride	50	50		1	100	70-130	07/01/2021 0845
Chlorobenzene	50	51		1	102	70-130	07/01/2021 0845
Chloroethane	50	45		1	89	70-130	07/01/2021 0845
Chloroform	50	54		1	108	70-130	07/01/2021 0845
Chloromethane (Methyl chloride)	50	49		1	98	60-140	07/01/2021 0845
Cyclohexane	50	51		1	103	70-130	07/01/2021 0845
1,2-Dibromo-3-chloropropane (DBCP)	50	58		1	115	70-130	07/01/2021 0845
Dibromochloromethane	50	54		1	108	70-130	07/01/2021 0845
1,2-Dibromoethane (EDB)	50	55		1	109	70-130	07/01/2021 0845
1,2-Dichlorobenzene	50	52		1	103	70-130	07/01/2021 0845
1,3-Dichlorobenzene	50	52		1	104	70-130	07/01/2021 0845
1,4-Dichlorobenzene	50	51		1	101	70-130	07/01/2021 0845
Dichlorodifluoromethane	50	40		1	81	60-140	07/01/2021 0845
1,1-Dichloroethane	50	55		1	110	70-130	07/01/2021 0845
1,2-Dichloroethane	50	54		1	109	70-130	07/01/2021 0845
1,1-Dichloroethene	50	51		1	101	70-130	07/01/2021 0845
cis-1,2-Dichloroethene	50	53		1	106	70-130	07/01/2021 0845
trans-1,2-Dichloroethene	50	53		1	105	70-130	07/01/2021 0845
1,2-Dichloropropane	50	54		1	109	70-130	07/01/2021 0845
cis-1,3-Dichloropropene	50	55		1	111	70-130	07/01/2021 0845
trans-1,3-Dichloropropene	50	56		1	113	70-130	07/01/2021 0845
Ethylbenzene	50	51		1	102	70-130	07/01/2021 0845
2-Hexanone	100	110		1	105	70-130	07/01/2021 0845
Isopropylbenzene	50	50		1	99	70-130	07/01/2021 0845
Methyl acetate	50	65		1	129	70-130	07/01/2021 0845
Methyl tertiary butyl ether (MTBE)	50	50		1	99	70-130	07/01/2021 0845
4-Methyl-2-pentanone	100	130		1	127	70-130	07/01/2021 0845
Methylcyclohexane	50	48		1	95	70-130	07/01/2021 0845
Methylene chloride	50	51		1	102	70-130	07/01/2021 0845
Styrene	50	53		1	107	70-130	07/01/2021 0845
1,1,2,2-Tetrachloroethane	50	59		1	118	70-130	07/01/2021 0845
Tetrachloroethene	50	47		1	93	70-130	07/01/2021 0845
Toluene	50	52		1	104	70-130	07/01/2021 0845
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	92	70-130	07/01/2021 0845
1,2,4-Trichlorobenzene	50	49		1	98	70-130	07/01/2021 0845
1,1,1-Trichloroethane	50	50		1	100	70-130	07/01/2021 0845
1,1,2-Trichloroethane	50	54		1	108	70-130	07/01/2021 0845

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97592-002
Batch: 97592
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	48		1	96	70-130	07/01/2021 0845
Trichlorofluoromethane	50	45		1	90	70-130	07/01/2021 0845
Vinyl chloride	50	47		1	93	70-130	07/01/2021 0845
Xylenes (total)	100	100		1	102	70-130	07/01/2021 0845

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ96775-001
Batch: 96775
Analytical Method: RSK - 175

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	06/25/2021 0918
Ethene	ND		1	10	2.5	ug/L	06/25/2021 0918
Methane	ND		1	10	2.5	ug/L	06/25/2021 0918
Propane	ND		1	15	5.0	ug/L	06/25/2021 0918

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ96775-002
Batch: 96775
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	550		1	100	70-130	06/25/2021 0848
Ethene	520	520		1	100	70-130	06/25/2021 0848
Methane	300	290		1	97	70-130	06/25/2021 0848
Propane	810	800		1	99	70-130	06/25/2021 0848

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCSD

Sample ID: WQ96775-003
Batch: 96775
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Ethane	550	540		1	97	2.5	70-130	30	06/25/2021 0904
Ethene	520	500		1	98	2.5	70-130	30	06/25/2021 0904
Methane	300	280		1	95	2.1	70-130	30	06/25/2021 0904
Propane	810	780		1	96	2.8	70-130	30	06/25/2021 0904

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 123133

Client	Report to Contact	Telephone No. / E-mail	Quote No.
EARTHCON CONSULTANTS, INC.	Mary Ann Brookshire	mbrookshire@earthcon.com	
Address: 1220 West Oak Parkway Ste. 106	Sampler's Signature: Tiffany Yates	Analysis (Attach list if more space is needed)	Page 1 of 2
City: Marietta, State: GA Zip Code: 30062	Printed Name: T. Harry Messick		
Project Name: Lennox International			WF22061

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab / Composite	Matrix: Aqueous	Matrix: Soil	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	HCl	HNO3	H2SO4	NaOH	Na2S2O3	Other	VOC	VOC 1,4 Dioxane	Dissolved Gases	Sulfide	Total Metals	Remarks / Cooler I.D.
2C1600378		MW-01D - 16.2'	6.21.22	16:20	G	X			1	1		3	1			X	X	X				
		MW-01D - 36.2'	6.21.22	16:35	G	X			1	1		3	1			X	X	X				
		MW-04D - 16'	6.21.22	15:05	G	X			1	1		3	1			X	X	X				
		MW-04D 36'	6.21.22	15:20	G	X			1	1		3	1			X	X	X				
		MW-04D 56'	6.21.22	15:35	G	X			1	1		3	1			X	X	X				
		MW-2	6.22.21	14:35	G	X			1	1		3	1			X	X	X	X	X	X	
		MW-2D	6.22.21	13:45	G	X			1	1		3	1			X	X	X	X	X	X	
		MW-15	6.22.21	09:50	G	X			1	1		3	1			X	X	X	X	X	X	
		MW-16	6.22.21	10:50	G	X			1	1		3	1			X	X	X	X	X	Y	
		MW-17	6.22.21	12:00	G	X			1	1		3	1			X	X	X	X	X	Y	

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☒ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Relinquished by	Date	Time	Received by	Date	Time
1.	[signature]	6.22.21	16:46			
2.						
3.						
4.		6.22.21	16:26	4. Laboratory received by: Kathryn Cheney	6.22.21	16:26

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack Receipt Temp 2.6 °C Temp Blank ☒ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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www.pacelabs.com

Number 123134

Client: EARTHCON CONSULTANTS, INC.	Report to Contact: Haley Ann Brookshire	Telephone No. / Email: HBrookshire@earthcon.com	Quote No.
Address: 1220 West Oak Parkway Ste 116	Sampler's Signature: Tiffany Musser	Analysis (Attach list if more space is needed)	Page 2 of 2
City: Marietta State: GA Zip Code: 30062	Printed Name: Tiffany Musser		
Project Name: Lennox International			
Project No.: 70160375	P.O. No.		

WF22061
LIQ
Remarks / Cooler I.D.

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Sample Type (G=Grab, C=Composite)	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaOH/ZN Ac	Field Filtered	VOCs	VOC 1,4 DIOX	Dissolved Fe+2	SO4/NO3 by IC	Sulfide	TOC				
MW-8	6.22.21	11:00	G	X			1	1		8	1			X	X	X	X	X	X				
MW-7	6.22.21	12:35	G	X			1	1		8	1			X	X	X	X	X	Y				

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)	**Sample Disposal**: ☐ Return to Client ☒ Disposal by Lab	**Possible Hazard Identification**: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	**QC Requirements (Specify)**		
1. Relinquished by: Tiffany Musser	Date: 6.22.21	Time: 16:26	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date: 6.22.21	Time: 16:26	4. Laboratory received by: Kaylon Mullins	Date: 6.22.21	Time: 16:26

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp: 2.6 °C — Temp Blank: ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

PACE ANALYTICAL SERVICES, LLC

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Enthesa | Cooler Inspected by/date: JRG2 / 06/22/2021 | Lot #: WF22061

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 29-2712 Chlorine Strip ID: NA Tested by: JRG2

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.6 /2.6 °C NA /NA °C NA /NA °C NA /NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JSM Date: 06/22/2021

Comments:

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 02.20160328.21

Lot Number:**WF23091**

Date Completed:07/06/2021

07/06/2021 1:53 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF23091

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Receipt

No sample collection dates listed on the COC. The collection dates were obtained from bottle labels.

Inorganic Non-Metals

Sample -005 has been qualified with an "H" for Nitrate analysis. However, this sample was likely analyzed within the hold time. No time of collection was listed on the COC. As such the hold time is being compared to a default time of midnight.

Sample Summary

EarthCon Consultants, Inc.

Lot Number: WF23091

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-3	Aqueous	06/23/2021 1100	06/23/2021
002	MW-3D	Aqueous	06/23/2021 0945	06/23/2021
003	MW-6R	Aqueous	06/23/2021 0945	06/23/2021
004	MW-01	Aqueous	06/23/2021 1205	06/23/2021
005	DUP-01	Aqueous	06/23/2021	06/23/2021
006	MW-10	Aqueous	06/23/2021 1415	06/23/2021
007	TRIP BLANK 1	Aqueous	06/23/2021	06/23/2021
008	TRIP BLANK 2	Aqueous	06/23/2021	06/23/2021

(8 samples)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF23091

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-3	Aqueous	Chloride	9056A	40		mg/L	6
001	MW-3	Aqueous	Sulfate	9056A	37		mg/L	6
001	MW-3	Aqueous	Sulfide	SM 4500-S2 F-	3.0		mg/L	6
001	MW-3	Aqueous	TOC	9060A	21		mg/L	6
001	MW-3	Aqueous	1,1-Dichloroethane	8260D	1500		ug/L	6
001	MW-3	Aqueous	1,2-Dichloroethane	8260D	100	J	ug/L	6
001	MW-3	Aqueous	1,1-Dichloroethene	8260D	760		ug/L	7
001	MW-3	Aqueous	cis-1,2-Dichloroethene	8260D	24000		ug/L	7
001	MW-3	Aqueous	trans-1,2-Dichloroethene	8260D	210		ug/L	7
001	MW-3	Aqueous	Ethylbenzene	8260D	520		ug/L	7
001	MW-3	Aqueous	Toluene	8260D	190	J	ug/L	7
001	MW-3	Aqueous	Vinyl chloride	8260D	1400		ug/L	7
001	MW-3	Aqueous	Xylenes (total)	8260D	2300		ug/L	7
001	MW-3	Aqueous	1,4-Dioxane	8260D (SIM)	260		ug/L	7
001	MW-3	Aqueous	Ethane	RSK - 175	36		ug/L	8
001	MW-3	Aqueous	Ethene	RSK - 175	160		ug/L	8
001	MW-3	Aqueous	Methane	RSK - 175	8500		ug/L	8
002	MW-3D	Aqueous	Chloride	9056A	13		mg/L	9
002	MW-3D	Aqueous	Nitrate - N	9056A	3.4		mg/L	9
002	MW-3D	Aqueous	Sulfate	9056A	0.57	J	mg/L	9
002	MW-3D	Aqueous	Sulfide	SM 4500-S2 F-	1.2		mg/L	9
002	MW-3D	Aqueous	Chloroform	8260D	1.1		ug/L	9
002	MW-3D	Aqueous	Methylene chloride	8260D	0.78	J	ug/L	10
002	MW-3D	Aqueous	Methane	RSK - 175	5.7	J	ug/L	11
003	MW-6R	Aqueous	Chloride	9056A	2.5		mg/L	12
003	MW-6R	Aqueous	Nitrate - N	9056A	0.15		mg/L	12
003	MW-6R	Aqueous	Sulfate	9056A	1.3		mg/L	12
003	MW-6R	Aqueous	TOC	9060A	7.4		mg/L	12
003	MW-6R	Aqueous	Methane	RSK - 175	4.6	J	ug/L	14
004	MW-01	Aqueous	Chloride	9056A	21		mg/L	15
004	MW-01	Aqueous	Sulfate	9056A	2.4		mg/L	15
004	MW-01	Aqueous	TOC	9060A	1.4		mg/L	15
004	MW-01	Aqueous	cis-1,2-Dichloroethene	8260D	1700		ug/L	16
004	MW-01	Aqueous	trans-1,2-Dichloroethene	8260D	8.1	J	ug/L	16
004	MW-01	Aqueous	Ethylbenzene	8260D	97		ug/L	16
004	MW-01	Aqueous	Vinyl chloride	8260D	64		ug/L	16
004	MW-01	Aqueous	Xylenes (total)	8260D	400		ug/L	16
004	MW-01	Aqueous	Ethene	RSK - 175	19		ug/L	17
004	MW-01	Aqueous	Methane	RSK - 175	740		ug/L	17
005	DUP-01	Aqueous	Chloride	9056A	21		mg/L	18
005	DUP-01	Aqueous	Sulfate	9056A	2.5		mg/L	18
005	DUP-01	Aqueous	Sulfide	SM 4500-S2 F-	1.2		mg/L	18
005	DUP-01	Aqueous	TOC	9060A	1.3		mg/L	18
005	DUP-01	Aqueous	cis-1,2-Dichloroethene	8260D	2100		ug/L	19
005	DUP-01	Aqueous	trans-1,2-Dichloroethene	8260D	8.3	J	ug/L	19

Detection Summary (Continued)

Lot Number: WF23091

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	DUP-01	Aqueous	Ethylbenzene	8260D	170		ug/L	19
005	DUP-01	Aqueous	Vinyl chloride	8260D	87		ug/L	19
005	DUP-01	Aqueous	Xylenes (total)	8260D	750		ug/L	19
005	DUP-01	Aqueous	Ethane	RSK - 175	2.6	J	ug/L	20
005	DUP-01	Aqueous	Ethene	RSK - 175	23		ug/L	20
005	DUP-01	Aqueous	Methane	RSK - 175	890		ug/L	20
006	MW-10	Aqueous	Chloride	9056A	7.1		mg/L	21
006	MW-10	Aqueous	Sulfate	9056A	2.7		mg/L	21
006	MW-10	Aqueous	TOC	9060A	1.9		mg/L	21
006	MW-10	Aqueous	Methane	RSK - 175	140		ug/L	23

(55 detections)

Client: EarthCon Consultants, Inc.
Description: MW-3
Date Sampled: 06/23/2021 1100
Date Received: 06/23/2021

Laboratory ID: WF23091-001
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1926	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2316	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2316	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2316	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0605	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	40		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	37		1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	3.0		1.0	1.0	mg/L	1
TOC		9060A	21		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	07/02/2021 1738	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		4000	1000	ug/L	1
Benzene	71-43-2	8260D	ND		200	80	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		200	80	ug/L	1
Bromoform	75-25-2	8260D	ND		200	80	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		400	80	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		2000	400	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		200	80	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		200	80	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		200	80	ug/L	1
Chloroethane	75-00-3	8260D	ND		400	80	ug/L	1
Chloroform	67-66-3	8260D	ND		200	80	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		200	100	ug/L	1
Cyclohexane	110-82-7	8260D	ND		200	80	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		200	80	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		200	80	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		200	80	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		200	80	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		200	80	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		200	80	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		400	120	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	1500		200	80	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	100	J	200	80	ug/L	1

TOC Range: 20.732 - 20.98

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-3
Date Sampled: 06/23/2021 1100
Date Received: 06/23/2021

Laboratory ID: WF23091-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	07/02/2021 1738	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	760		200	80	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	24000		200	80	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	210		200	80	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		200	80	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		200	80	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		200	80	ug/L	1
Ethylbenzene	100-41-4	8260D	520		200	80	ug/L	1
2-Hexanone	591-78-6	8260D	ND		2000	400	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		200	80	ug/L	1
Methyl acetate	79-20-9	8260D	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		200	80	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		2000	400	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		1000	80	ug/L	1
Methylene chloride	75-09-2	8260D	ND		200	80	ug/L	1
Styrene	100-42-5	8260D	ND		200	82	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		200	80	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		200	80	ug/L	1
Toluene	108-88-3	8260D	190	J	200	80	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		200	84	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		200	80	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		200	80	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		200	80	ug/L	1
Trichloroethene	79-01-6	8260D	ND		200	80	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		200	80	ug/L	1
Vinyl chloride	75-01-4	8260D	1400		200	80	ug/L	1
Xylenes (total)	1330-20-7	8260D	2300		200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D (SIM)	5	07/02/2021 0603	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	260		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-3
Date Sampled: 06/23/2021 1100
Date Received: 06/23/2021

Laboratory ID: WF23091-001
Matrix: Aqueous

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1334	TML		96775
2		RSK - 175	10	06/30/2021 0908	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	36		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	160		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	8500		100	25	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-3D
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-002
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1929	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2337	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2337	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2337	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0629	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	13		1.0	0.25	mg/L	1
Nitrate - N		9056A	3.4		0.020	0.0050	mg/L	1
Sulfate		9056A	0.57	J	1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	1.2		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1243	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.1		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.073 - 0.148

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-3D
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1243	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	0.78	J	1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D (SIM)	1	07/01/2021 2352	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-3D
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-002
Matrix: Aqueous

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1350	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	5.7	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-6R
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-003
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1933	DAK		96947
1		(Chloride) 9056A	1	06/24/2021 2358	AMR		96871
1		(Nitrate - N) 9056A	1	06/24/2021 2358	AMR		96869
1		(Sulfate) 9056A	1	06/24/2021 2358	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0653	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	2.5		1.0	0.25	mg/L	1
Nitrate - N		9056A	0.15		0.020	0.0050	mg/L	1
Sulfate		9056A	1.3		1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	7.4		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1305	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 7.281 - 7.539

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-6R
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1305	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0029	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-6R
Date Sampled: 06/23/2021 0945
Date Received: 06/23/2021

Laboratory ID: WF23091-003
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1406	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	4.6	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-01
Date Sampled: 06/23/2021 1205
Date Received: 06/23/2021

Laboratory ID: WF23091-004
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1938	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0019	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0019	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0019	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0717	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	21		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	2.4		1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	1.4		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1630	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		400	100	ug/L	1
Benzene	71-43-2	8260D	ND		20	8.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		20	8.0	ug/L	1
Bromoform	75-25-2	8260D	ND		20	8.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		40	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		200	40	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		20	8.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		20	8.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		20	8.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		40	8.0	ug/L	1
Chloroform	67-66-3	8260D	ND		20	8.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		20	10	ug/L	1
Cyclohexane	110-82-7	8260D	ND		20	8.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		20	8.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		20	8.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		20	8.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		20	8.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		20	8.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		20	8.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		40	12	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		20	8.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		20	8.0	ug/L	1

TOC Range: 1.357 - 1.436

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-01
Date Sampled: 06/23/2021 1205
Date Received: 06/23/2021

Laboratory ID: WF23091-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1630	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		20	8.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	1700		20	8.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	8.1	J	20	8.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		20	8.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		20	8.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		20	8.0	ug/L	1
Ethylbenzene	100-41-4	8260D	97		20	8.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		200	40	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		20	8.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		200	40	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		100	8.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		20	8.0	ug/L	1
Styrene	100-42-5	8260D	ND		20	8.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		20	8.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		20	8.4	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		20	8.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		20	8.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		20	8.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		20	8.0	ug/L	1
Vinyl chloride	75-01-4	8260D	64		20	8.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	400		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0053	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-01
Date Sampled: 06/23/2021 1205
Date Received: 06/23/2021

Laboratory ID: WF23091-004
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1421	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	19		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	740		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DUP-01
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-005
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1943	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0040	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0040	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0040	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0741	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	21		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND	H	0.020	0.0050	mg/L	1
Sulfate		9056A	2.5		1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	1.2		1.0	1.0	mg/L	1
TOC		9060A	1.3		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1653	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		400	100	ug/L	1
Benzene	71-43-2	8260D	ND		20	8.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		20	8.0	ug/L	1
Bromoform	75-25-2	8260D	ND		20	8.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		40	8.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		200	40	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		20	8.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		20	8.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		20	8.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		40	8.0	ug/L	1
Chloroform	67-66-3	8260D	ND		20	8.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		20	10	ug/L	1
Cyclohexane	110-82-7	8260D	ND		20	8.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		20	8.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		20	8.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		20	8.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		20	8.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		20	8.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		20	8.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		40	12	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		20	8.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		20	8.0	ug/L	1

TOC Range: 1.264 - 1.304

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DUP-01
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	07/02/2021 1653	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		20	8.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	2100		20	8.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	8.3	J	20	8.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		20	8.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		20	8.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		20	8.0	ug/L	1
Ethylbenzene	100-41-4	8260D	170		20	8.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		200	40	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		20	8.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		20	8.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		200	40	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		100	8.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		20	8.0	ug/L	1
Styrene	100-42-5	8260D	ND		20	8.2	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		20	8.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		20	8.4	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		20	8.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		20	8.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		20	8.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		20	8.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		20	8.0	ug/L	1
Vinyl chloride	75-01-4	8260D	87		20	8.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	750		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0118	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DUP-01
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-005
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/25/2021 1437	TML		96775

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	2.6	J	10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	23		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	890		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-10
Date Sampled: 06/23/2021 1415
Date Received: 06/23/2021

Laboratory ID: WF23091-006
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1946	DAK		96947
1		(Chloride) 9056A	1	06/25/2021 0101	AMR		96871
1		(Nitrate - N) 9056A	1	06/25/2021 0101	AMR		96869
1		(Sulfate) 9056A	1	06/25/2021 0101	AMR		96866
1		(Sulfide) SM 4500-S2 F-2011	1	06/30/2021 1714	GDC		97493
1		(TOC) 9060A	1	06/25/2021 0805	AAB		96702

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	7.1		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	2.7		1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	1.9		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1220	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND	S	1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 1.873 - 1.952

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-10
Date Sampled: 06/23/2021 1415
Date Received: 06/23/2021

Laboratory ID: WF23091-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1220	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 0143	CJL2		97508

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-10
Date Sampled: 06/23/2021 1415
Date Received: 06/23/2021

Laboratory ID: WF23091-006
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	06/30/2021 1029	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	140		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND	S	15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TRIP BLANK 1
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1050	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TRIP BLANK 1
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1050	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		101	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: TRIP BLANK 2
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1112	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TRIP BLANK 2
Date Sampled: 06/23/2021
Date Received: 06/23/2021

Laboratory ID: WF23091-008
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/02/2021 1112	TML		97729

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ96702-001
Batch: 96702
Analytical Method: 9060A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
TOC	ND		1	1.0	0.42	mg/L	06/25/2021 0052

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96702-002
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	20	19		1	96	90-110	06/25/2021 0116

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WF23091-006MS
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	1.9	50	48		1	92	70-130	06/25/2021 0829

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF23091-006MD
Batch: 96702
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
TOC	1.9	50	48		1	92	0.029	70-130	20	06/25/2021 0853

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96866-001
Batch: 96866
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfate	ND		1	1.0	0.25	mg/L	06/24/2021 1844

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96866-002
Batch: 96866
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	20	20		1	101	80-120	06/24/2021 2213

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WF23091-006MS
Batch: 96866
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	2.7	10	13		1	101	80-120	06/25/2021 0122

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF23091-006MD
Batch: 96866
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfate	2.7	10	13		1	102	0.35	80-120	20	06/25/2021 0143

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96869-001
Batch: 96869
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Nitrate - N	ND		1	0.020	0.0050	mg/L	06/24/2021 1844

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96869-002
Batch: 96869
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	0.80	0.82		1	103	80-120	06/24/2021 2213

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF23091-006MS
Batch: 96869
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	ND	0.40	0.40		1	100	80-120	06/25/2021 0122

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF23091-006MD
Batch: 96869
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Nitrate - N	ND	0.40	0.40		1	100	0.20	80-120	20	06/25/2021 0143

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ96871-001
Batch: 96871
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Chloride	ND		1	1.0	0.25	mg/L	06/24/2021 1844

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96871-002
Batch: 96871
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	20	20		1	102	80-120	06/24/2021 2213

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WF23091-006MS
Batch: 96871
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	7.1	10	17		1	100	80-120	06/25/2021 0122

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF23091-006MD
Batch: 96871
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Chloride	7.1	10	17		1	101	0.15	80-120	20	06/25/2021 0143

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96947-002
Batch: 96947
Analytical Method: SM 2320B-2011
Matrix: Aqueous

Parameter	Spike Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Alkalinity @ pH 4.5 su	100	100		1	100	90-110	06/25/2021 1923

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: WF23091-006DU
Batch: 96947
Analytical Method: SM 2320B-2011
Matrix: Aqueous

Parameter	Sample Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
Alkalinity @ pH 4.5 su	ND	ND		1	0.00	20	06/25/2021 1949

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97493-001
Batch: 97493
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfide	ND		1	1.0	1.0	mg/L	06/30/2021 1714

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97493-002
Batch: 97493
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfide	10	10		1	100	80-120	06/30/2021 1714

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCSD

Sample ID: WQ97493-003
Batch: 97493
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfide	10	10		1	100	0.00	80-120	20	06/30/2021 1714

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97508-001
Batch: 97508
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	06/30/2021 2225

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		102	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97508-002
Batch: 97508
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	40		1	80	70-130	06/30/2021 2111

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		107	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MS

Sample ID: WF23091-006MS
Batch: 97508
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	ND	50	44		1	89	70-130	07/01/2021 0638

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		113	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MSD

Sample ID: WF23091-006MD
Batch: 97508
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	ND	50	46		1	93	4.2	70-130	20	07/01/2021 0703

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		112	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97674-001
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	07/01/2021 2149

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97674-002
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	90	70-130	07/01/2021 2033

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MS

Sample ID: WF23091-001MS
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	260	250	520		5	103	70-130	07/02/2021 0628

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		113	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MSD

Sample ID: WF23091-001MD
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	260	250	520		5	102	0.31	70-130	20	07/02/2021 0652

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		109	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97729-001
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/02/2021 0952
Benzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Bromoform	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/02/2021 0952
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/02/2021 0952
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Chloroethane	ND		1	2.0	0.40	ug/L	07/02/2021 0952
Chloroform	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/02/2021 0952
Cyclohexane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/02/2021 0952
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
2-Hexanone	ND		1	10	2.0	ug/L	07/02/2021 0952
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Methyl acetate	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/02/2021 0952
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/02/2021 0952
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/02/2021 0952
Methylene chloride	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Styrene	ND		1	1.0	0.41	ug/L	07/02/2021 0952
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Toluene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/02/2021 0952
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97729-001
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/02/2021 0952
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/02/2021 0952

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97729-002
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	140		1	138	60-140	07/02/2021 0853
Benzene	50	51		1	102	70-130	07/02/2021 0853
Bromodichloromethane	50	51		1	103	70-130	07/02/2021 0853
Bromoform	50	46		1	92	70-130	07/02/2021 0853
Bromomethane (Methyl bromide)	50	47		1	95	70-130	07/02/2021 0853
2-Butanone (MEK)	100	110		1	114	70-130	07/02/2021 0853
Carbon disulfide	50	55		1	111	70-130	07/02/2021 0853
Carbon tetrachloride	50	54		1	108	70-130	07/02/2021 0853
Chlorobenzene	50	47		1	93	70-130	07/02/2021 0853
Chloroethane	50	49		1	98	70-130	07/02/2021 0853
Chloroform	50	54		1	109	70-130	07/02/2021 0853
Chloromethane (Methyl chloride)	50	53		1	105	60-140	07/02/2021 0853
Cyclohexane	50	57		1	114	70-130	07/02/2021 0853
1,2-Dibromo-3-chloropropane (DBCP)	50	58		1	116	70-130	07/02/2021 0853
Dibromochloromethane	50	49		1	99	70-130	07/02/2021 0853
1,2-Dibromoethane (EDB)	50	47		1	94	70-130	07/02/2021 0853
1,2-Dichlorobenzene	50	51		1	102	70-130	07/02/2021 0853
1,3-Dichlorobenzene	50	49		1	98	70-130	07/02/2021 0853
1,4-Dichlorobenzene	50	47		1	94	70-130	07/02/2021 0853
Dichlorodifluoromethane	50	50		1	100	60-140	07/02/2021 0853
1,1-Dichloroethane	50	54		1	108	70-130	07/02/2021 0853
1,2-Dichloroethane	50	54		1	107	70-130	07/02/2021 0853
1,1-Dichloroethene	50	52		1	105	70-130	07/02/2021 0853
cis-1,2-Dichloroethene	50	52		1	105	70-130	07/02/2021 0853
trans-1,2-Dichloroethene	50	54		1	107	70-130	07/02/2021 0853
1,2-Dichloropropane	50	51		1	102	70-130	07/02/2021 0853
cis-1,3-Dichloropropene	50	54		1	108	70-130	07/02/2021 0853
trans-1,3-Dichloropropene	50	52		1	104	70-130	07/02/2021 0853
Ethylbenzene	50	47		1	95	70-130	07/02/2021 0853
2-Hexanone	100	110		1	109	70-130	07/02/2021 0853
Isopropylbenzene	50	50		1	100	70-130	07/02/2021 0853
Methyl acetate	50	59		1	119	70-130	07/02/2021 0853
Methyl tertiary butyl ether (MTBE)	50	54		1	109	70-130	07/02/2021 0853
4-Methyl-2-pentanone	100	110		1	111	70-130	07/02/2021 0853
Methylcyclohexane	50	54		1	107	70-130	07/02/2021 0853
Methylene chloride	50	50		1	101	70-130	07/02/2021 0853
Styrene	50	51		1	101	70-130	07/02/2021 0853
1,1,2,2-Tetrachloroethane	50	53		1	105	70-130	07/02/2021 0853
Tetrachloroethene	50	47		1	94	70-130	07/02/2021 0853
Toluene	50	49		1	98	70-130	07/02/2021 0853
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	105	70-130	07/02/2021 0853
1,2,4-Trichlorobenzene	50	51		1	102	70-130	07/02/2021 0853
1,1,1-Trichloroethane	50	53		1	106	70-130	07/02/2021 0853
1,1,2-Trichloroethane	50	46		1	92	70-130	07/02/2021 0853

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97729-002
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	46		1	93	70-130	07/02/2021 0853
Trichlorofluoromethane	50	53		1	105	70-130	07/02/2021 0853
Vinyl chloride	50	52		1	103	70-130	07/02/2021 0853
Xylenes (total)	100	96		1	96	70-130	07/02/2021 0853

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		93	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: WF23091-006MS
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	ND	100	72		1	72	60-140	07/02/2021 1801
Benzene	ND	50	53		1	106	70-130	07/02/2021 1801
Bromodichloromethane	ND	50	58		1	116	70-130	07/02/2021 1801
Bromoform	ND	50	48		1	96	70-130	07/02/2021 1801
Bromomethane (Methyl bromide)	ND	50	46		1	93	70-130	07/02/2021 1801
2-Butanone (MEK)	ND	100	96		1	96	70-130	07/02/2021 1801
Carbon disulfide	ND	50	53		1	105	70-130	07/02/2021 1801
Carbon tetrachloride	ND	50	60		1	120	70-130	07/02/2021 1801
Chlorobenzene	ND	50	54		1	109	70-130	07/02/2021 1801
Chloroethane	ND	50	49		1	99	70-130	07/02/2021 1801
Chloroform	ND	50	62		1	124	70-130	07/02/2021 1801
Chloromethane (Methyl chloride)	ND	50	57		1	114	60-140	07/02/2021 1801
Cyclohexane	ND	50	70	N	1	140	70-130	07/02/2021 1801
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	57		1	113	70-130	07/02/2021 1801
Dibromochloromethane	ND	50	54		1	109	70-130	07/02/2021 1801
1,2-Dibromoethane (EDB)	ND	50	53		1	106	70-130	07/02/2021 1801
1,2-Dichlorobenzene	ND	50	52		1	104	70-130	07/02/2021 1801
1,3-Dichlorobenzene	ND	50	53		1	105	70-130	07/02/2021 1801
1,4-Dichlorobenzene	ND	50	49		1	97	70-130	07/02/2021 1801
Dichlorodifluoromethane	ND	50	56		1	112	60-140	07/02/2021 1801
1,1-Dichloroethane	ND	50	60		1	119	70-130	07/02/2021 1801
1,2-Dichloroethane	ND	50	53		1	107	70-130	07/02/2021 1801
1,1-Dichloroethene	ND	50	54		1	109	70-130	07/02/2021 1801
cis-1,2-Dichloroethene	ND	50	59		1	118	70-130	07/02/2021 1801
trans-1,2-Dichloroethene	ND	50	59		1	118	70-130	07/02/2021 1801
1,2-Dichloropropane	ND	50	59		1	118	70-130	07/02/2021 1801
cis-1,3-Dichloropropene	ND	50	52		1	104	70-130	07/02/2021 1801
trans-1,3-Dichloropropene	ND	50	52		1	105	70-130	07/02/2021 1801
Ethylbenzene	ND	50	55		1	110	70-130	07/02/2021 1801
2-Hexanone	ND	100	120		1	119	70-130	07/02/2021 1801
Isopropylbenzene	ND	50	55		1	111	70-130	07/02/2021 1801
Methyl acetate	ND	50	56		1	112	70-130	07/02/2021 1801
Methyl tertiary butyl ether (MTBE)	ND	50	53		1	106	70-130	07/02/2021 1801
4-Methyl-2-pentanone	ND	100	130		1	128	70-130	07/02/2021 1801
Methylcyclohexane	ND	50	61		1	123	70-130	07/02/2021 1801
Methylene chloride	ND	50	51		1	102	70-130	07/02/2021 1801
Styrene	ND	50	55		1	111	70-130	07/02/2021 1801
1,1,2,2-Tetrachloroethane	ND	50	55		1	109	70-130	07/02/2021 1801
Tetrachloroethene	ND	50	57		1	113	70-130	07/02/2021 1801
Toluene	ND	50	57		1	113	70-130	07/02/2021 1801
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	56		1	111	70-130	07/02/2021 1801
1,2,4-Trichlorobenzene	ND	50	50		1	101	70-130	07/02/2021 1801
1,1,1-Trichloroethane	ND	50	61		1	121	70-130	07/02/2021 1801
1,1,2-Trichloroethane	ND	50	54		1	108	70-130	07/02/2021 1801

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: WF23091-006MS
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	ND	50	53		1	105	70-130	07/02/2021 1801
Trichlorofluoromethane	ND	50	57		1	114	70-130	07/02/2021 1801
Vinyl chloride	ND	50	52		1	104	70-130	07/02/2021 1801
Xylenes (total)	ND	100	110		1	108	70-130	07/02/2021 1801

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		104	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WF23091-006MD
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	74		1	74	3.5	60-140	20	07/02/2021 1824
Benzene	ND	50	55		1	110	3.4	70-130	20	07/02/2021 1824
Bromodichloromethane	ND	50	52		1	104	10	70-130	20	07/02/2021 1824
Bromoform	ND	50	43		1	87	11	70-130	20	07/02/2021 1824
Bromomethane (Methyl bromide)	ND	50	44		1	88	5.5	70-130	20	07/02/2021 1824
2-Butanone (MEK)	ND	100	89		1	89	7.8	70-130	20	07/02/2021 1824
Carbon disulfide	ND	50	54		1	108	2.6	70-130	20	07/02/2021 1824
Carbon tetrachloride	ND	50	58		1	116	2.8	70-130	20	07/02/2021 1824
Chlorobenzene	ND	50	49		1	98	11	70-130	20	07/02/2021 1824
Chloroethane	ND	50	50		1	100	1.0	70-130	20	07/02/2021 1824
Chloroform	ND	50	56		1	112	10	70-130	20	07/02/2021 1824
Chloromethane (Methyl chloride)	ND	50	55		1	109	4.5	60-140	20	07/02/2021 1824
Cyclohexane	ND	50	65	N	1	131	6.9	70-130	20	07/02/2021 1824
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	61		1	122	7.4	70-130	20	07/02/2021 1824
Dibromochloromethane	ND	50	51		1	102	7.0	70-130	20	07/02/2021 1824
1,2-Dibromoethane (EDB)	ND	50	53		1	106	0.38	70-130	20	07/02/2021 1824
1,2-Dichlorobenzene	ND	50	55		1	110	5.6	70-130	20	07/02/2021 1824
1,3-Dichlorobenzene	ND	50	54		1	107	1.9	70-130	20	07/02/2021 1824
1,4-Dichlorobenzene	ND	50	49		1	99	1.5	70-130	20	07/02/2021 1824
Dichlorodifluoromethane	ND	50	56		1	112	0.46	60-140	20	07/02/2021 1824
1,1-Dichloroethane	ND	50	55		1	110	8.2	70-130	20	07/02/2021 1824
1,2-Dichloroethane	ND	50	55		1	109	1.9	70-130	20	07/02/2021 1824
1,1-Dichloroethene	ND	50	57		1	114	4.7	70-130	20	07/02/2021 1824
cis-1,2-Dichloroethene	ND	50	55		1	110	6.4	70-130	20	07/02/2021 1824
trans-1,2-Dichloroethene	ND	50	59		1	119	0.37	70-130	20	07/02/2021 1824
1,2-Dichloropropane	ND	50	52		1	104	13	70-130	20	07/02/2021 1824
cis-1,3-Dichloropropene	ND	50	50		1	99	5.1	70-130	20	07/02/2021 1824
trans-1,3-Dichloropropene	ND	50	49		1	98	7.3	70-130	20	07/02/2021 1824
Ethylbenzene	ND	50	57		1	113	2.6	70-130	20	07/02/2021 1824
2-Hexanone	ND	100	110		1	110	8.4	70-130	20	07/02/2021 1824
Isopropylbenzene	ND	50	52		1	104	6.5	70-130	20	07/02/2021 1824
Methyl acetate	ND	50	57		1	113	1.2	70-130	20	07/02/2021 1824
Methyl tertiary butyl ether (MTBE)	ND	50	54		1	107	1.3	70-130	20	07/02/2021 1824
4-Methyl-2-pentanone	ND	100	120		1	116	9.3	70-130	20	07/02/2021 1824
Methylcyclohexane	ND	50	55		1	111	10	70-130	20	07/02/2021 1824
Methylene chloride	ND	50	53		1	105	3.0	70-130	20	07/02/2021 1824
Styrene	ND	50	55		1	110	0.67	70-130	20	07/02/2021 1824
1,1,2,2-Tetrachloroethane	ND	50	55		1	110	1.3	70-130	20	07/02/2021 1824
Tetrachloroethene	ND	50	55		1	110	2.5	70-130	20	07/02/2021 1824
Toluene	ND	50	54		1	107	5.4	70-130	20	07/02/2021 1824
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	56		1	113	1.6	70-130	20	07/02/2021 1824
1,2,4-Trichlorobenzene	ND	50	55		1	110	8.4	70-130	20	07/02/2021 1824
1,1,1-Trichloroethane	ND	50	55		1	110	9.3	70-130	20	07/02/2021 1824
1,1,2-Trichloroethane	ND	50	50		1	101	6.7	70-130	20	07/02/2021 1824

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: WF23091-006MD
Batch: 97729
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	ND	50	52		1	105	0.39	70-130	20	07/02/2021 1824
Trichlorofluoromethane	ND	50	52		1	104	9.0	70-130	20	07/02/2021 1824
Vinyl chloride	ND	50	51		1	102	1.4	70-130	20	07/02/2021 1824
Xylenes (total)	ND	100	110		1	105	2.2	70-130	20	07/02/2021 1824

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ96775-001
Batch: 96775
Analytical Method: RSK - 175

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	06/25/2021 0918
Ethene	ND		1	10	2.5	ug/L	06/25/2021 0918
Methane	ND		1	10	2.5	ug/L	06/25/2021 0918
Propane	ND		1	15	5.0	ug/L	06/25/2021 0918

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ96775-002
Batch: 96775
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	550		1	100	70-130	06/25/2021 0848
Ethene	520	520		1	100	70-130	06/25/2021 0848
Methane	300	290		1	97	70-130	06/25/2021 0848
Propane	810	800		1	99	70-130	06/25/2021 0848

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCSD

Sample ID: WQ96775-003
Batch: 96775
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Ethane	550	540		1	97	2.5	70-130	30	06/25/2021 0904
Ethene	520	500		1	98	2.5	70-130	30	06/25/2021 0904
Methane	300	280		1	95	2.1	70-130	30	06/25/2021 0904
Propane	810	780		1	96	2.8	70-130	30	06/25/2021 0904

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ97348-001
Batch: 97348
Analytical Method: RSK - 175

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	06/30/2021 0816
Ethene	ND		1	10	2.5	ug/L	06/30/2021 0816
Methane	ND		1	10	2.5	ug/L	06/30/2021 0816
Propane	ND		1	15	5.0	ug/L	06/30/2021 0816

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ97348-002
Batch: 97348
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	550		1	99	70-130	06/30/2021 0802
Ethene	520	510		1	99	70-130	06/30/2021 0802
Methane	300	290		1	97	70-130	06/30/2021 0802
Propane	810	790		1	97	70-130	06/30/2021 0802

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MS

Sample ID: WF23091-006MS
Batch: 97348
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	ND	550	520		1	94	70-130	06/30/2021 1409
Ethene	ND	520	490		1	94	70-130	06/30/2021 1409
Methane	140	300	420		1	92	70-130	06/30/2021 1409
Propane	ND	420	740	N	1	178	70-130	06/30/2021 1409

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MSD

Sample ID: WF23091-006MD
Batch: 97348
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Ethane	ND	550	520		1	95	1.3	70-130	30	06/30/2021 1423
Ethene	ND	520	490		1	96	1.6	70-130	30	06/30/2021 1423
Methane	140	300	410		1	90	1.7	70-130	30	06/30/2021 1423
Propane	ND	420	750	N	1	181	1.2	70-130	30	06/30/2021 1423

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 123137

Client: CARTACON CONSULTANTS, INC.	Report to Contact: Mary Ann Brookeshire	Telephone No. / E-mail: mbrookeshire@cartacon.com	Quote No.
Address: 1600 West Oak Parkway St. 106	Sampler's Signature: [signature]	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Marietta State: GA Zip Code: 30062	Printed Name: Tiffany Messina Hannah Bardi		WF23091 LIO
Project Name: Lennox International			
Project No.: DL2016027821	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Sample Type (G=Grab, C=Composite)	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	HNO3	H2SO4	NaOH	Na2S2O3	Methanol	NaHSO4	Other	VOC	1,4D SIM	Dissolved Mg/Ca	Sat/Unsat Lab	Sulfide	TOC	Remarks / Cooler I.D.
MW-3		11:00	G	X			1		1		1				X	X	X	X	X	X	
MW-3D		09:45	G	X			1		1		1				X	X	X	X	X	X	
MW-10R		09:45	G	X			1		1		1				X	X	X	X	X	X	
MW-01		12:05	G	X			1		1		1				X	X	X	X	X	X	
DUP-01		—	G	X			1		1		1				X	X	X	X	X	X	
MW-1D		14:15	G	X			1		1		1				X	X	X	X	X	X	
MW-1D-MS		14:15	G	X			1		1		1				X	X	X	X	X	X	
MW-1D-MSD		14:15	G	X			1		1		1				X	X	X	X	X	X	
Trip Blank 1		—	G								3				X						
Trip Blank 2		—	G								3				X						

Turn Around Time Required (Prior lab approval required for expedited TAT.): [X] Standard [ ] Rush (Specify)

Sample Disposal: [ ] Return to Client [ ] Disposal by Lab

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	6/23/21	17:13	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	6/23/21	1713

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on Ice (Circle): (Yes) No Ice Pack — Receipt Temp: 2.7, 2.4 °C — Temp Blank: Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

PACE ANALYTICAL SERVICES, LLC

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: JRG2 / 6/23/2021 Lot #: WF23091

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 20-2712 Chlorine Strip ID: NA Tested by: JRG2

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

2.7 / 2.7 °C 2.4 / 2.4 °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 6/23/2021

Comments:

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 02.20160378.21

Lot Number:**WF25024**

Date Completed:07/13/2021

07/19/2021 3:16 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF25024

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Dissolved Gases
The following sample was received with solid in the sample vial: WF25024-020. The liquid was decanted from vial and analyzed on instrument.

Inorganic Non-Metals
Reanalysis of the following samples was performed outside of the analytical holding time: WF25024-001, WF25024-002, WF25024-003, WF25024-004, WF25024-021. The out-of-hold Run 2 results confirm the in-hold Run 1 results, therefore all in-hold results will be reported.

1,4-Dioxane SIM
The following sample was received with solid in the sample vial: WF25024-020. The liquid was decanted from vial and analyzed on instrument.

VOCs by GC/MS
The following sample was analyzed outside of analytical holding time due to overcapacity of samples in the lab: WF25024-004. Sample -019 required a dilution which was performed outside of the analytical holding time for Trichloroethene, 1,1,2-Trichloroethane and Tetrachloroethene.

Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 10% of analytes to recover marginally outside criteria. The following analytes recovered marginally outside LCS/LCSD criteria: Dichlorodifluoromethane.

The following sample was received with solid in the sample vial and was diluted due to the nature of the sample matrix: WF25024-020. The liquid was decanted from vial and a dilution of 5x was prepped and analyzed on instrument. The LOQ has been elevated to reflect the dilution.

Sample Summary

EarthCon Consultants, Inc.

Lot Number: WF25024

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-4	Aqueous	06/24/2021 0845	06/24/2021
002	MW-14	Aqueous	06/24/2021 0950	06/24/2021
003	MW-11	Aqueous	06/24/2021 1205	06/24/2021
004	MW-5	Aqueous	06/24/2021 1500	06/24/2021
005	TB-1	Aqueous	06/24/2021	06/24/2021
006	DP-2-SO (10-11)	Solid	06/24/2021 1000	06/24/2021
007	DP-2-SO (19-20)	Solid	06/24/2021 1010	06/24/2021
008	DP-13-SO (10-11)	Solid	06/23/2021 1500	06/24/2021
009	DP-13-SO (19-20)	Solid	06/23/2021 1600	06/24/2021
010	DP-2-SO (6-7)	Solid	06/24/2021 1020	06/24/2021
011	DP-12-SO (4-5)	Solid	06/23/2021 1500	06/24/2021
012	DP-6-SO (10-11)	Solid	06/24/2021 1130	06/24/2021
013	DP-12-SO (9-10)	Solid	06/23/2021 1700	06/24/2021
014	DP-3-SO (10-11)	Solid	06/24/2021 1130	06/24/2021
015	TB-2	Aqueous	06/24/2021	06/24/2021
016	DP-2-16/17-GW	Aqueous	06/24/2021 1010	06/24/2021
017	DP-DUP1-GW	Aqueous	06/24/2021	06/24/2021
018	DP-3-20-GW	Aqueous	06/24/2021 1200	06/24/2021
019	DP-12-20-GW	Aqueous	06/23/2021 1810	06/24/2021
020	DP-14-10-GW	Aqueous	06/24/2021 1130	06/24/2021
021	EB-01-062421	Aqueous	06/24/2021 1705	06/24/2021

(21 samples)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF25024

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-4	Aqueous	Chloride	9056A	6.7		mg/L	9
001	MW-4	Aqueous	Sulfate	9056A	1.2		mg/L	9
001	MW-4	Aqueous	Sulfide	SM 4500-S2 F-	4.0		mg/L	9
001	MW-4	Aqueous	TOC	9060A	0.74	J	mg/L	9
001	MW-4	Aqueous	cis-1,2-Dichloroethene	8260D	8.7		ug/L	10
001	MW-4	Aqueous	Tetrachloroethene	8260D	4.2		ug/L	10
001	MW-4	Aqueous	1,1,2-Trichloroethane	8260D	0.93	J	ug/L	10
001	MW-4	Aqueous	Trichloroethene	8260D	6.9		ug/L	10
001	MW-4	Aqueous	Methane	RSK - 175	140		ug/L	11
002	MW-14	Aqueous	Chloride	9056A	3.0		mg/L	12
002	MW-14	Aqueous	Sulfate	9056A	6.8		mg/L	12
002	MW-14	Aqueous	Sulfide	SM 4500-S2 F-	1.1		mg/L	12
002	MW-14	Aqueous	TOC	9060A	0.60	J	mg/L	12
002	MW-14	Aqueous	Toluene	8260D	8.2		ug/L	13
002	MW-14	Aqueous	Methane	RSK - 175	80		ug/L	14
003	MW-11	Aqueous	Alkalinity @ pH 4.5 su	SM 2320B-	120		mg CaCO3/L	15
003	MW-11	Aqueous	Chloride	9056A	4.8		mg/L	15
003	MW-11	Aqueous	Sulfate	9056A	3.3		mg/L	15
003	MW-11	Aqueous	Sulfide	SM 4500-S2 F-	1.0		mg/L	15
003	MW-11	Aqueous	TOC	9060A	2.6		mg/L	15
003	MW-11	Aqueous	Methane	RSK - 175	390		ug/L	17
004	MW-5	Aqueous	Chloride	9056A	19		mg/L	18
004	MW-5	Aqueous	Nitrate - N	9056A	0.27		mg/L	18
004	MW-5	Aqueous	Sulfate	9056A	0.47	J	mg/L	18
004	MW-5	Aqueous	Sulfide	SM 4500-S2 F-	1.1		mg/L	18
004	MW-5	Aqueous	1,1-Dichloroethane	8260D	4.7	HJ	ug/L	18
004	MW-5	Aqueous	1,1-Dichloroethene	8260D	2.4	HJ	ug/L	19
004	MW-5	Aqueous	cis-1,2-Dichloroethene	8260D	370	H	ug/L	19
004	MW-5	Aqueous	trans-1,2-Dichloroethene	8260D	3.7	HJ	ug/L	19
004	MW-5	Aqueous	Ethylbenzene	8260D	2.7	HJ	ug/L	19
004	MW-5	Aqueous	Tetrachloroethene	8260D	120	H	ug/L	19
004	MW-5	Aqueous	Trichloroethene	8260D	210	H	ug/L	19
004	MW-5	Aqueous	Vinyl chloride	8260D	8.8	H	ug/L	19
004	MW-5	Aqueous	1,4-Dioxane	8260D (SIM)	13		ug/L	19
004	MW-5	Aqueous	Ethene	RSK - 175	3.8	J	ug/L	20
004	MW-5	Aqueous	Methane	RSK - 175	1800		ug/L	20
008	DP-13-SO (10-11)	Solid	Acetone	8260D	11	J	ug/kg	27
009	DP-13-SO (19-20)	Solid	Acetone	8260D	19		ug/kg	29
009	DP-13-SO (19-20)	Solid	cis-1,2-Dichloroethene	8260D	5.7		ug/kg	29
009	DP-13-SO (19-20)	Solid	Tetrachloroethene	8260D	3.3	J	ug/kg	29
009	DP-13-SO (19-20)	Solid	1,1,2-Trichloroethane	8260D	4.4		ug/kg	30
009	DP-13-SO (19-20)	Solid	Trichloroethene	8260D	6.9		ug/kg	30
010	DP-2-SO (6-7)	Solid	Acetone	8260D	15	J	ug/kg	31
010	DP-2-SO (6-7)	Solid	cis-1,2-Dichloroethene	8260D	7.0		ug/kg	31
011	DP-12-SO (4-5)	Solid	cis-1,2-Dichloroethene	8260D	17		ug/kg	33

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	DP-12-SO (4-5)	Solid	Tetrachloroethene	8260D	77		ug/kg	33
011	DP-12-SO (4-5)	Solid	1,1,2-Trichloroethane	8260D	11		ug/kg	34
011	DP-12-SO (4-5)	Solid	Trichloroethene	8260D	69		ug/kg	34
013	DP-12-SO (9-10)	Solid	cis-1,2-Dichloroethene	8260D	15		ug/kg	37
013	DP-12-SO (9-10)	Solid	Tetrachloroethene	8260D	21		ug/kg	37
013	DP-12-SO (9-10)	Solid	1,1,2-Trichloroethane	8260D	3.3		ug/kg	38
013	DP-12-SO (9-10)	Solid	Trichloroethene	8260D	27		ug/kg	38
014	DP-3-SO (10-11)	Solid	Acetone	8260D	10	J	ug/kg	39
016	DP-2-16/17-GW	Aqueous	Chloroform	8260D	1.7		ug/L	43
016	DP-2-16/17-GW	Aqueous	cis-1,2-Dichloroethene	8260D	52		ug/L	43
016	DP-2-16/17-GW	Aqueous	trans-1,2-Dichloroethene	8260D	0.83	J	ug/L	43
016	DP-2-16/17-GW	Aqueous	Toluene	8260D	0.46	J	ug/L	43
016	DP-2-16/17-GW	Aqueous	Trichloroethene	8260D	0.47	J	ug/L	44
016	DP-2-16/17-GW	Aqueous	Vinyl chloride	8260D	1.9		ug/L	44
016	DP-2-16/17-GW	Aqueous	Xylenes (total)	8260D	1.8		ug/L	44
016	DP-2-16/17-GW	Aqueous	Methane	RSK - 175	10		ug/L	44
017	DP-DUP1-GW	Aqueous	Chloroform	8260D	1.7		ug/L	45
017	DP-DUP1-GW	Aqueous	cis-1,2-Dichloroethene	8260D	53		ug/L	45
017	DP-DUP1-GW	Aqueous	trans-1,2-Dichloroethene	8260D	0.87	J	ug/L	45
017	DP-DUP1-GW	Aqueous	Toluene	8260D	0.43	J	ug/L	45
017	DP-DUP1-GW	Aqueous	Trichloroethene	8260D	0.45	J	ug/L	46
017	DP-DUP1-GW	Aqueous	Vinyl chloride	8260D	1.9		ug/L	46
017	DP-DUP1-GW	Aqueous	Xylenes (total)	8260D	1.7		ug/L	46
017	DP-DUP1-GW	Aqueous	Methane	RSK - 175	6.7	J	ug/L	46
018	DP-3-20-GW	Aqueous	Chloroform	8260D	1.6		ug/L	47
018	DP-3-20-GW	Aqueous	Methane	RSK - 175	17		ug/L	48
019	DP-12-20-GW	Aqueous	1,1-Dichloroethane	8260D	10		ug/L	49
019	DP-12-20-GW	Aqueous	1,2-Dichloroethane	8260D	0.41	J	ug/L	49
019	DP-12-20-GW	Aqueous	1,1-Dichloroethene	8260D	110		ug/L	49
019	DP-12-20-GW	Aqueous	cis-1,2-Dichloroethene	8260D	120		ug/L	49
019	DP-12-20-GW	Aqueous	trans-1,2-Dichloroethene	8260D	2.4		ug/L	49
019	DP-12-20-GW	Aqueous	Ethylbenzene	8260D	8.7		ug/L	49
019	DP-12-20-GW	Aqueous	Methylene chloride	8260D	2.4		ug/L	49
019	DP-12-20-GW	Aqueous	Tetrachloroethene	8260D	2100	H	ug/L	49
019	DP-12-20-GW	Aqueous	1,1,1-Trichloroethane	8260D	1.6		ug/L	50
019	DP-12-20-GW	Aqueous	1,1,2-Trichloroethane	8260D	280	H	ug/L	50
019	DP-12-20-GW	Aqueous	Trichloroethene	8260D	5800	H	ug/L	50
019	DP-12-20-GW	Aqueous	Vinyl chloride	8260D	7.0		ug/L	50
019	DP-12-20-GW	Aqueous	Xylenes (total)	8260D	86		ug/L	50
019	DP-12-20-GW	Aqueous	Methane	RSK - 175	80		ug/L	50
020	DP-14-10-GW	Aqueous	Ethane	RSK - 175	2.9	J	ug/L	52
020	DP-14-10-GW	Aqueous	Ethene	RSK - 175	2.5	J	ug/L	52
020	DP-14-10-GW	Aqueous	Methane	RSK - 175	57		ug/L	52
021	EB-01-062421	Aqueous	Sulfide	SM 4500-S2 F-	1.5		mg/L	53
021	EB-01-062421	Aqueous	Methane	RSK - 175	3.5	J	ug/L	55

(90 detections)

Client: EarthCon Consultants, Inc.
Description: MW-4
Date Sampled: 06/24/2021 0845
Date Received: 06/24/2021

Laboratory ID: WF25024-001
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 1952	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1606	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1905	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1606	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1033	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	6.7		1.0	0.25	mg/L	2
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	1.2		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	4.0		1.0	1.0	mg/L	1
TOC		9060A	0.74	J	1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1159	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.607 - 0.864

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-4
Date Sampled: 06/24/2021 0845
Date Received: 06/24/2021

Laboratory ID: WF25024-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1159	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	8.7		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	4.2		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	0.93	J	1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	6.9		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1552	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-4
Date Sampled: 06/24/2021 0845
Date Received: 06/24/2021

Laboratory ID: WF25024-001
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/28/2021 1343	TML		97011

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	140		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-14
Date Sampled: 06/24/2021 0950
Date Received: 06/24/2021

Laboratory ID: WF25024-002
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2005	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1627	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1926	AMR		97474
2		(Sulfate) 9056A	5	07/02/2021 0706	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1145	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	3.0		1.0	0.25	mg/L	2
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	6.8		5.0	1.3	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.1		1.0	1.0	mg/L	1
TOC		9060A	0.60	J	1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1224	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0.551 - 0.628

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-14
Date Sampled: 06/24/2021 0950
Date Received: 06/24/2021

Laboratory ID: WF25024-002
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1224	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	8.2		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1617	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-14
Date Sampled: 06/24/2021 0950
Date Received: 06/24/2021

Laboratory ID: WF25024-002
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/28/2021 1359	TML		97011

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	80		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-11
Date Sampled: 06/24/2021 1205
Date Received: 06/24/2021

Laboratory ID: WF25024-003
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2011	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1648	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 1947	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1648	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1210	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	120		20	20	mg CaCO3/L	1
Chloride		9056A	4.8		1.0	0.25	mg/L	2
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	3.3		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.0		1.0	1.0	mg/L	1
TOC		9060A	2.6		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1250	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 2.558 - 2.642

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-11
Date Sampled: 06/24/2021 1205
Date Received: 06/24/2021

Laboratory ID: WF25024-003
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1250	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1641	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-11
Date Sampled: 06/24/2021 1205
Date Received: 06/24/2021

Laboratory ID: WF25024-003
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1045	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	390		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-5
Date Sampled: 06/24/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-004
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2015	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1709	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 2050	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1709	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1234	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	19		1.0	0.25	mg/L	2
Nitrate - N		9056A	0.27		0.020	0.0050	mg/L	1
Sulfate		9056A	0.47	J	1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.1		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 0429	JDF		98339

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND	H	100	25	ug/L	1
Benzene	71-43-2	8260D	ND	H	5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND	H	5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND	H	5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND	H	10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND	H	50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND	H	5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND	H	5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND	H	5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND	H	10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND	H	5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND	H	5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND	H	5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND	H	5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND	H	5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND	H	5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND	H	5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	H	10	3.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	4.7	HJ	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND	H	5.0	2.0	ug/L	1

TOC Range: 0.211 - 0.237

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-5
Date Sampled: 06/24/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 0429	JDF		98339

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	2.4	HJ	5.0	2.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	370	H	5.0	2.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	3.7	HJ	5.0	2.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND	H	5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND	H	5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND	H	5.0	2.0	ug/L	1
Ethylbenzene	100-41-4	8260D	2.7	HJ	5.0	2.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND	H	50	10	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND	H	5.0	2.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND	H	5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND	H	5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND	H	50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND	H	25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND	H	5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND	H	5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND	H	5.0	2.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	120	H	5.0	2.0	ug/L	1
Toluene	108-88-3	8260D	ND	H	5.0	2.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND	H	5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND	H	5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND	H	5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND	H	5.0	2.0	ug/L	1
Trichloroethene	79-01-6	8260D	210	H	5.0	2.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND	H	5.0	2.0	ug/L	1
Vinyl chloride	75-01-4	8260D	8.8	H	5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND	H	5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene	H	95	70-130
1,2-Dichloroethane-d4	H	104	70-130
Toluene-d8	H	101	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0107	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	13		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-5
Date Sampled: 06/24/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-004
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1101	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	3.8	J	10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	1800		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TB-1
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Laboratory ID: WF25024-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1043	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: TB-1
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Laboratory ID: WF25024-005
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1043	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Client: EarthCon Consultants, Inc.
Description: DP-2-SO (10-11)
Date Sampled: 06/24/2021 1000
Date Received: 06/24/2021

Laboratory ID: WF25024-006
Matrix: Solid
% Solids: 84.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0455	CJL2		97321	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	2.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.8	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.8	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-2-SO (10-11)
Date Sampled: 06/24/2021 1000
Date Received: 06/24/2021

Laboratory ID: WF25024-006
Matrix: Solid
% Solids: 84.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0455	CJL2		97321	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.8	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-2-SO (19-20)
Date Sampled: 06/24/2021 1010
Date Received: 06/24/2021

Laboratory ID: WF25024-007
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0518	CJL2		97321	6.05

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		19	7.6	ug/kg	1
Benzene	71-43-2	8260D	ND		4.7	1.9	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.7	1.9	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.7	1.9	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.7	2.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		19	3.8	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.7	1.9	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.7	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.7	1.9	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.7	1.9	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.7	1.9	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.7	2.8	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.7	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.7	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.7	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.7	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.7	2.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	1.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.7	1.9	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.7	1.9	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.7	1.9	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.7	1.9	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.5	3.8	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.7	1.9	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.7	1.9	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.7	1.9	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.5	3.8	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.7	1.9	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.7	1.9	ug/kg	1
Styrene	100-42-5	8260D	ND		4.7	1.9	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.7	1.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	1.9	ug/kg	1
Toluene	108-88-3	8260D	ND		4.7	1.9	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-2-SO (19-20)
Date Sampled: 06/24/2021 1010
Date Received: 06/24/2021

Laboratory ID: WF25024-007
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0518	CJL2		97321	6.05

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.7	1.9	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.7	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.7	1.9	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.7	1.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.7	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	2.8	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.5	3.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DP-13-SO (10-11)
Date Sampled: 06/23/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-008
Matrix: Solid
% Solids: 81.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0541	CJL2		97321	6.06

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	11	J	20	8.1	ug/kg	1
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-13-SO (10-11)
Date Sampled: 06/23/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-008
Matrix: Solid
% Solids: 81.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0541	CJL2		97321	6.06

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
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Client: EarthCon Consultants, Inc.
Description: DP-13-SO (19-20)
Date Sampled: 06/23/2021 1600
Date Received: 06/24/2021

Laboratory ID: WF25024-009
Matrix: Solid
% Solids: 89.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0604	CJL2		97321	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	19		18	7.1	ug/kg	1
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	5.7		4.4	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.4	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.8	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.8	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	3.3	J	4.4	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-13-SO (19-20)
Date Sampled: 06/23/2021 1600
Date Received: 06/24/2021

Laboratory ID: WF25024-009
Matrix: Solid
% Solids: 89.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0604	CJL2		97321	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	4.4		4.4	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	6.9		4.4	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	2.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.8	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
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Client: EarthCon Consultants, Inc.
Description: DP-2-SO (6-7)
Date Sampled: 06/24/2021 1020
Date Received: 06/24/2021

Laboratory ID: WF25024-010
Matrix: Solid
% Solids: 89.9 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0627	CJL2		97321	6.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	15	J	18	7.1	ug/kg	1
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	7.0		4.4	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.4	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.8	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.8	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-2-SO (6-7)
Date Sampled: 06/24/2021 1020
Date Received: 06/24/2021

Laboratory ID: WF25024-010
Matrix: Solid
% Solids: 89.9 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0627	CJL2		97321	6.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.4	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.8	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DP-12-SO (4-5)
Date Sampled: 06/23/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-011
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0650	CJL2		97321	6.35

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		18	7.2	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	17		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.0	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.0	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	77		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-12-SO (4-5)
Date Sampled: 06/23/2021 1500
Date Received: 06/24/2021

Laboratory ID: WF25024-011
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0650	CJL2		97321	6.35

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	11		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	69		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.0	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
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Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Client: EarthCon Consultants, Inc.
Description: DP-6-SO (10-11)
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-012
Matrix: Solid
% Solids: 81.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0712	CJL2		97321	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.2	ug/kg	1
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.1	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-6-SO (10-11)
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-012
Matrix: Solid
% Solids: 81.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0712	CJL2		97321	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.1	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
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Client: EarthCon Consultants, Inc.
Description: DP-12-SO (9-10)
Date Sampled: 06/23/2021 1700
Date Received: 06/24/2021

Laboratory ID: WF25024-013
Matrix: Solid
% Solids: 85.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0735	CJL2		97321	11.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		10	4.1	ug/kg	1
Benzene	71-43-2	8260D	ND		2.6	1.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		2.6	1.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		2.6	1.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.6	1.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		2.6	1.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		2.6	1.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		2.6	1.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		2.6	1.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		2.6	1.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		2.6	1.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		2.6	1.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		2.6	1.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		2.6	1.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		2.6	1.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.6	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		2.6	1.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		2.6	1.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	15		2.6	1.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		2.6	1.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		2.6	1.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		2.6	1.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		2.6	1.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		2.6	1.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		5.2	2.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		2.6	1.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		2.6	1.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		2.6	1.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		5.2	2.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		2.6	1.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		2.6	1.0	ug/kg	1
Styrene	100-42-5	8260D	ND		2.6	1.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		2.6	1.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	21		2.6	1.0	ug/kg	1
Toluene	108-88-3	8260D	ND		2.6	1.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-12-SO (9-10)
Date Sampled: 06/23/2021 1700
Date Received: 06/24/2021

Laboratory ID: WF25024-013
Matrix: Solid
% Solids: 85.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0735	CJL2		97321	11.29

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		2.6	1.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		2.6	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		2.6	1.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	3.3		2.6	1.0	ug/kg	1
Trichloroethene	79-01-6	8260D	27		2.6	1.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		2.6	1.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		2.6	1.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		5.2	2.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		110	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
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Client: EarthCon Consultants, Inc.
Description: DP-3-SO (10-11)
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-014
Matrix: Solid
% Solids: 83.2 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0758	CJL2		97321	5.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	10	J	22	8.8	ug/kg	1
Benzene	71-43-2	8260D	ND		5.5	2.2	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.5	2.2	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.5	2.2	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.5	3.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		22	4.4	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.5	2.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.5	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.5	2.2	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.5	2.2	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.5	2.2	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.5	3.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.5	2.2	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.5	2.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.5	2.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.5	2.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.5	3.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.5	2.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.5	2.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.5	2.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.5	2.2	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.5	2.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.5	2.2	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.5	2.2	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.5	2.2	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.4	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.5	2.2	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.5	2.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.5	2.2	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.4	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.5	2.2	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.5	2.2	ug/kg	1
Styrene	100-42-5	8260D	ND		5.5	2.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.5	2.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.5	2.2	ug/kg	1
Toluene	108-88-3	8260D	ND		5.5	2.2	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-3-SO (10-11)
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-014
Matrix: Solid
% Solids: 83.2 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 0758	CJL2		97321	5.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.5	2.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.5	2.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.5	2.2	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.5	2.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.5	2.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.5	2.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.5	3.3	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: TB-2
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Laboratory ID: WF25024-015
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1108	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Laboratory ID: WF25024-015
Description: TB-2
Matrix: Aqueous
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1108	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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Client: EarthCon Consultants, Inc.
Description: DP-2-16/17-GW
Date Sampled: 06/24/2021 1010
Date Received: 06/24/2021

Laboratory ID: WF25024-016
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1315	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.7		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	52		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.83	J	1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	0.46	J	1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-2-16/17-GW
Date Sampled: 06/24/2021 1010
Date Received: 06/24/2021

Laboratory ID: WF25024-016
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1315	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.47	J	1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	1.9		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	1.8		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1706	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1117	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	10		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-DUP1-GW
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Laboratory ID: WF25024-017
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1341	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.7		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	53		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	0.87	J	1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	0.43	J	1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-DUP1-GW
Date Sampled: 06/24/2021
Date Received: 06/24/2021

Laboratory ID: WF25024-017
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1341	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.45	J	1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	1.9		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	1.7		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1731	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1133	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	6.7	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-3-20-GW
Date Sampled: 06/24/2021 1200
Date Received: 06/24/2021

Laboratory ID: WF25024-018
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1407	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.6		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-3-20-GW
Date Sampled: 06/24/2021 1200
Date Received: 06/24/2021

Laboratory ID: WF25024-018
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1407	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		95	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1755	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1149	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	17		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-12-20-GW
Date Sampled: 06/23/2021 1810
Date Received: 06/24/2021

Laboratory ID: WF25024-019
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/06/2021 1829	TML		97934
2	5030B	8260D	100	07/08/2021 1826	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	10		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	0.41	J	1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	110		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	120		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	2.4		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	8.7		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	2.4		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	2100	H	100	40	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-12-20-GW
Date Sampled: 06/23/2021 1810
Date Received: 06/24/2021

Laboratory ID: WF25024-019
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/06/2021 1829	TML		97934
2	5030B	8260D	100	07/08/2021 1826	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	1.6		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	280	H	100	40	ug/L	2
Trichloroethene	79-01-6	8260D	5800	H	100	40	ug/L	2
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	7.0		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	86		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		104	70-130	H	92	70-130
1,2-Dichloroethane-d4		110	70-130	H	100	70-130
Toluene-d8		104	70-130	H	98	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 1820	JWO		97631

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1205	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	80		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-14-10-GW
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-020
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/08/2021 1800	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		100	25	ug/L	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	10	3.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		50	10	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND		5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/L	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-14-10-GW
Date Sampled: 06/24/2021 1130
Date Received: 06/24/2021

Laboratory ID: WF25024-020
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/08/2021 1800	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 2328	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1221	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	2.9	J	10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	2.5	J	10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	57		10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: EB-01-062421
Date Sampled: 06/24/2021 1705
Date Received: 06/24/2021

Laboratory ID: WF25024-021
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	06/25/2021 2018	DAK		96947
2		(Chloride) 9056A	1	07/01/2021 1730	MSG		97742
1		(Nitrate - N) 9056A	1	06/25/2021 2111	AMR		97474
2		(Sulfate) 9056A	1	07/01/2021 1730	MSG		97739
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1346	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	ND		1.0	0.25	mg/L	2
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	ND		1.0	0.25	mg/L	2
Sulfide	18496-25-8	SM 4500-S2 F-2	1.5		1.0	1.0	mg/L	1
TOC		9060A	ND		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1133	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 0 - 0

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: EB-01-062421
Date Sampled: 06/24/2021 1705
Date Received: 06/24/2021

Laboratory ID: WF25024-021
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1133	BWS		98224

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 2214	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: EB-01-062421
Date Sampled: 06/24/2021 1705
Date Received: 06/24/2021

Laboratory ID: WF25024-021
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		RSK - 175	1	06/30/2021 1237	TML		97348

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	1
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	1
Methane	74-82-8	RSK - 175	3.5	J	10	2.5	ug/L	1
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

QC Summary

Inorganic non-metals - MB

Sample ID: WQ96944-001
Batch: 96944
Analytical Method: 9060A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
TOC	ND		1	1.0	0.42	mg/L	06/27/2021 0857

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96944-002
Batch: 96944
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	20	19		1	93	90-110	06/27/2021 0921

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF25024-001MS
Batch: 96944
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	0.74	50	48		1	94	70-130	06/27/2021 1057

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF25024-001MD
Batch: 96944
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
TOC	0.74	50	50		1	98	4.3	70-130	20	06/27/2021 1121

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96947-002
Batch: 96947
Analytical Method: SM 2320B-2011
Matrix: Aqueous

Parameter	Spike Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Alkalinity @ pH 4.5 su	100	100		1	100	90-110	06/25/2021 1923

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97474-001
Batch: 97474
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Nitrate - N	ND		1	0.020	0.0050	mg/L	06/25/2021 1803

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97474-002
Batch: 97474
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	0.80	0.83		1	104	80-120	06/25/2021 1845

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF25024-003MS
Batch: 97474
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	ND	0.40	0.39		1	98	80-120	06/25/2021 2008

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF25024-003MD
Batch: 97474
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Nitrate - N	ND	0.40	0.39		1	98	0.18	80-120	20	06/25/2021 2029

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97672-001
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfide	ND		1	1.0	1.0	mg/L	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97672-002
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfide	10	10		1	100	80-120	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WQ97672-003
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfide	10	10		1	100	0.00	80-120	20	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97739-001
Batch: 97739
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfate	ND		1	1.0	0.25	mg/L	07/01/2021 1501

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97739-002
Batch: 97739
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	20	21		1	103	80-120	07/01/2021 1546

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97742-001
Batch: 97742
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Chloride	ND		1	1.0	0.25	mg/L	07/01/2021 1501

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97742-002
Batch: 97742
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	20	21		1	103	80-120	07/01/2021 1546

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97321-001
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	06/30/2021 0130
Benzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Bromoform	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	06/30/2021 0130
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	06/30/2021 0130
Carbon disulfide	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Chlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Chloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Chloroform	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	06/30/2021 0130
Cyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	06/30/2021 0130
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Ethylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
2-Hexanone	ND		1	10	4.0	ug/kg	06/30/2021 0130
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Methyl acetate	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	06/30/2021 0130
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Methylene chloride	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Styrene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Toluene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97321-001
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 0130
Vinyl chloride	ND		1	5.0	3.0	ug/kg	06/30/2021 0130
Xylenes (total)	ND		1	10	4.0	ug/kg	06/30/2021 0130

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97321-002
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	100		1	101	60-140	06/30/2021 0007
Benzene	50	53		1	107	70-130	06/30/2021 0007
Bromodichloromethane	50	54		1	108	70-130	06/30/2021 0007
Bromoform	50	49		1	97	70-130	06/30/2021 0007
Bromomethane (Methyl bromide)	50	50		1	101	70-130	06/30/2021 0007
2-Butanone (MEK)	100	95		1	95	60-140	06/30/2021 0007
Carbon disulfide	50	56		1	112	70-130	06/30/2021 0007
Carbon tetrachloride	50	57		1	114	70-130	06/30/2021 0007
Chlorobenzene	50	53		1	105	70-130	06/30/2021 0007
Chloroethane	50	52		1	104	70-130	06/30/2021 0007
Chloroform	50	53		1	106	70-130	06/30/2021 0007
Chloromethane (Methyl chloride)	50	52		1	104	60-140	06/30/2021 0007
Cyclohexane	50	59		1	117	70-130	06/30/2021 0007
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	70-130	06/30/2021 0007
Dibromochloromethane	50	50		1	101	70-130	06/30/2021 0007
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	06/30/2021 0007
1,2-Dichlorobenzene	50	53		1	106	70-130	06/30/2021 0007
1,3-Dichlorobenzene	50	54		1	108	70-130	06/30/2021 0007
1,4-Dichlorobenzene	50	53		1	105	70-130	06/30/2021 0007
Dichlorodifluoromethane	50	63		1	126	60-140	06/30/2021 0007
1,1-Dichloroethane	50	54		1	108	70-130	06/30/2021 0007
1,2-Dichloroethane	50	55		1	109	70-130	06/30/2021 0007
1,1-Dichloroethene	50	57		1	115	70-130	06/30/2021 0007
cis-1,2-Dichloroethene	50	53		1	106	70-130	06/30/2021 0007
trans-1,2-Dichloroethene	50	57		1	115	70-130	06/30/2021 0007
1,2-Dichloropropane	50	52		1	105	70-130	06/30/2021 0007
cis-1,3-Dichloropropene	50	52		1	104	70-130	06/30/2021 0007
trans-1,3-Dichloropropene	50	52		1	103	70-130	06/30/2021 0007
Ethylbenzene	50	54		1	108	70-130	06/30/2021 0007
2-Hexanone	100	97		1	97	70-130	06/30/2021 0007
Isopropylbenzene	50	55		1	110	70-130	06/30/2021 0007
Methyl acetate	50	48		1	96	70-130	06/30/2021 0007
Methyl tertiary butyl ether (MTBE)	50	52		1	103	70-130	06/30/2021 0007
4-Methyl-2-pentanone	100	94		1	94	70-130	06/30/2021 0007
Methylcyclohexane	50	56		1	112	70-130	06/30/2021 0007
Methylene chloride	50	50		1	99	70-130	06/30/2021 0007
Styrene	50	52		1	103	70-130	06/30/2021 0007
1,1,2,2-Tetrachloroethane	50	51		1	101	70-130	06/30/2021 0007
Tetrachloroethene	50	56		1	111	70-130	06/30/2021 0007
Toluene	50	53		1	106	70-130	06/30/2021 0007
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	59		1	118	70-130	06/30/2021 0007
1,2,4-Trichlorobenzene	50	52		1	103	70-130	06/30/2021 0007
1,1,1-Trichloroethane	50	57		1	115	70-130	06/30/2021 0007
1,1,2-Trichloroethane	50	51		1	103	70-130	06/30/2021 0007

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97321-002
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	54		1	108	70-130	06/30/2021 0007
Trichlorofluoromethane	50	59		1	117	70-130	06/30/2021 0007
Vinyl chloride	50	54		1	109	70-130	06/30/2021 0007
Xylenes (total)	100	110		1	107	70-130	06/30/2021 0007

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		107	47-138
1,2-Dichloroethane-d4		109	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97321-003
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	100	95		1	95	6.7	60-140	20	06/30/2021 0030
Benzene	50	49		1	99	7.4	70-130	20	06/30/2021 0030
Bromodichloromethane	50	52		1	103	4.9	70-130	20	06/30/2021 0030
Bromoform	50	47		1	94	3.6	70-130	20	06/30/2021 0030
Bromomethane (Methyl bromide)	50	49		1	98	2.7	70-130	20	06/30/2021 0030
2-Butanone (MEK)	100	91		1	91	4.4	60-140	20	06/30/2021 0030
Carbon disulfide	50	50		1	101	10	70-130	20	06/30/2021 0030
Carbon tetrachloride	50	52		1	104	8.9	70-130	20	06/30/2021 0030
Chlorobenzene	50	50		1	99	5.6	70-130	20	06/30/2021 0030
Chloroethane	50	49		1	97	6.7	70-130	20	06/30/2021 0030
Chloroform	50	50		1	101	5.4	70-130	20	06/30/2021 0030
Chloromethane (Methyl chloride)	50	49		1	98	5.9	60-140	20	06/30/2021 0030
Cyclohexane	50	52		1	105	11	70-130	20	06/30/2021 0030
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	91	0.95	70-130	20	06/30/2021 0030
Dibromochloromethane	50	49		1	98	2.4	70-130	20	06/30/2021 0030
1,2-Dibromoethane (EDB)	50	49		1	98	2.6	70-130	20	06/30/2021 0030
1,2-Dichlorobenzene	50	51		1	102	4.1	70-130	20	06/30/2021 0030
1,3-Dichlorobenzene	50	52		1	103	4.5	70-130	20	06/30/2021 0030
1,4-Dichlorobenzene	50	50		1	101	4.4	70-130	20	06/30/2021 0030
Dichlorodifluoromethane	50	56		1	113	11	60-140	20	06/30/2021 0030
1,1-Dichloroethane	50	50		1	100	7.5	70-130	20	06/30/2021 0030
1,2-Dichloroethane	50	52		1	105	4.1	70-130	20	06/30/2021 0030
1,1-Dichloroethene	50	52		1	105	9.0	70-130	20	06/30/2021 0030
cis-1,2-Dichloroethene	50	50		1	100	6.1	70-130	20	06/30/2021 0030
trans-1,2-Dichloroethene	50	52		1	105	9.0	70-130	20	06/30/2021 0030
1,2-Dichloropropane	50	50		1	99	5.4	70-130	20	06/30/2021 0030
cis-1,3-Dichloropropene	50	50		1	100	4.1	70-130	20	06/30/2021 0030
trans-1,3-Dichloropropene	50	50		1	99	3.7	70-130	20	06/30/2021 0030
Ethylbenzene	50	50		1	100	7.6	70-130	20	06/30/2021 0030
2-Hexanone	100	94		1	94	2.9	70-130	20	06/30/2021 0030
Isopropylbenzene	50	51		1	101	8.0	70-130	20	06/30/2021 0030
Methyl acetate	50	47		1	94	1.7	70-130	20	06/30/2021 0030
Methyl tertiary butyl ether (MTBE)	50	51		1	101	1.9	70-130	20	06/30/2021 0030
4-Methyl-2-pentanone	100	93		1	93	1.7	70-130	20	06/30/2021 0030
Methylcyclohexane	50	51		1	103	8.5	70-130	20	06/30/2021 0030
Methylene chloride	50	47		1	95	4.3	70-130	20	06/30/2021 0030
Styrene	50	49		1	97	6.1	70-130	20	06/30/2021 0030
1,1,2,2-Tetrachloroethane	50	50		1	99	1.9	70-130	20	06/30/2021 0030
Tetrachloroethene	50	51		1	102	8.3	70-130	20	06/30/2021 0030
Toluene	50	49		1	98	7.7	70-130	20	06/30/2021 0030
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	55		1	111	6.1	70-130	20	06/30/2021 0030
1,2,4-Trichlorobenzene	50	51		1	102	1.2	70-130	20	06/30/2021 0030
1,1,1-Trichloroethane	50	53		1	106	7.8	70-130	20	06/30/2021 0030
1,1,2-Trichloroethane	50	50		1	100	3.0	70-130	20	06/30/2021 0030

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97321-003
Batch: 97321
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	50		1	101	7.4	70-130	20	06/30/2021 0030
Trichlorofluoromethane	50	54		1	109	7.6	70-130	20	06/30/2021 0030
Vinyl chloride	50	49		1	99	9.4	70-130	20	06/30/2021 0030
Xylenes (total)	100	99		1	99	7.6	70-130	20	06/30/2021 0030

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97631-001
Batch: 97631
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	07/01/2021 0929

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		105	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97631-002
Batch: 97631
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	52		1	104	70-130	07/01/2021 0826

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		120	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97674-001
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	07/01/2021 2149

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97674-002
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	90	70-130	07/01/2021 2033

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97934-001
Batch: 97934
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/06/2021 1022
Benzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Bromoform	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/06/2021 1022
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/06/2021 1022
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Chloroethane	ND		1	2.0	0.40	ug/L	07/06/2021 1022
Chloroform	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/06/2021 1022
Cyclohexane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/06/2021 1022
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
2-Hexanone	ND		1	10	2.0	ug/L	07/06/2021 1022
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Methyl acetate	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/06/2021 1022
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/06/2021 1022
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/06/2021 1022
Methylene chloride	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Styrene	ND		1	1.0	0.41	ug/L	07/06/2021 1022
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Toluene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/06/2021 1022
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/06/2021 1022
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/06/2021 1022
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/06/2021 1022

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97934-001
Batch: 97934
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/06/2021 1022

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97934-002
Batch: 97934
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	84		1	84	60-140	07/06/2021 0913
Benzene	50	54		1	107	70-130	07/06/2021 0913
Bromodichloromethane	50	55		1	110	70-130	07/06/2021 0913
Bromoform	50	51		1	101	70-130	07/06/2021 0913
Bromomethane (Methyl bromide)	50	52		1	104	70-130	07/06/2021 0913
2-Butanone (MEK)	100	100		1	101	70-130	07/06/2021 0913
Carbon disulfide	50	63		1	126	70-130	07/06/2021 0913
Carbon tetrachloride	50	55		1	110	70-130	07/06/2021 0913
Chlorobenzene	50	52		1	105	70-130	07/06/2021 0913
Chloroethane	50	54		1	108	70-130	07/06/2021 0913
Chloroform	50	54		1	109	70-130	07/06/2021 0913
Chloromethane (Methyl chloride)	50	56		1	111	60-140	07/06/2021 0913
Cyclohexane	50	57		1	115	70-130	07/06/2021 0913
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	94	70-130	07/06/2021 0913
Dibromochloromethane	50	56		1	112	70-130	07/06/2021 0913
1,2-Dibromoethane (EDB)	50	54		1	108	70-130	07/06/2021 0913
1,2-Dichlorobenzene	50	50		1	100	70-130	07/06/2021 0913
1,3-Dichlorobenzene	50	52		1	104	70-130	07/06/2021 0913
1,4-Dichlorobenzene	50	51		1	102	70-130	07/06/2021 0913
Dichlorodifluoromethane	50	51		1	103	60-140	07/06/2021 0913
1,1-Dichloroethane	50	55		1	111	70-130	07/06/2021 0913
1,2-Dichloroethane	50	53		1	105	70-130	07/06/2021 0913
1,1-Dichloroethene	50	55		1	109	70-130	07/06/2021 0913
cis-1,2-Dichloroethene	50	55		1	110	70-130	07/06/2021 0913
trans-1,2-Dichloroethene	50	57		1	114	70-130	07/06/2021 0913
1,2-Dichloropropane	50	54		1	109	70-130	07/06/2021 0913
cis-1,3-Dichloropropene	50	57		1	113	70-130	07/06/2021 0913
trans-1,3-Dichloropropene	50	58		1	117	70-130	07/06/2021 0913
Ethylbenzene	50	53		1	106	70-130	07/06/2021 0913
2-Hexanone	100	120		1	117	70-130	07/06/2021 0913
Isopropylbenzene	50	54		1	108	70-130	07/06/2021 0913
Methyl acetate	50	62		1	123	70-130	07/06/2021 0913
Methyl tertiary butyl ether (MTBE)	50	56		1	113	70-130	07/06/2021 0913
4-Methyl-2-pentanone	100	120		1	118	70-130	07/06/2021 0913
Methylcyclohexane	50	53		1	106	70-130	07/06/2021 0913
Methylene chloride	50	55		1	111	70-130	07/06/2021 0913
Styrene	50	55		1	111	70-130	07/06/2021 0913
1,1,2,2-Tetrachloroethane	50	54		1	108	70-130	07/06/2021 0913
Toluene	50	53		1	107	70-130	07/06/2021 0913
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	54		1	108	70-130	07/06/2021 0913
1,2,4-Trichlorobenzene	50	46		1	91	70-130	07/06/2021 0913
1,1,1-Trichloroethane	50	56		1	112	70-130	07/06/2021 0913
Trichlorofluoromethane	50	53		1	107	70-130	07/06/2021 0913
Vinyl chloride	50	54		1	108	70-130	07/06/2021 0913

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97934-002
Batch: 97934
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Xylenes (total)	100	110		1	106	70-130	07/06/2021 0913

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		105	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98224-001
Batch: 98224
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/08/2021 0943
Benzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Bromoform	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/08/2021 0943
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/08/2021 0943
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Chloroethane	ND		1	2.0	0.40	ug/L	07/08/2021 0943
Chloroform	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/08/2021 0943
Cyclohexane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/08/2021 0943
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
2-Hexanone	ND		1	10	2.0	ug/L	07/08/2021 0943
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Methyl acetate	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/08/2021 0943
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/08/2021 0943
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/08/2021 0943
Methylene chloride	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Styrene	ND		1	1.0	0.41	ug/L	07/08/2021 0943
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Toluene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/08/2021 0943
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98224-001
Batch: 98224
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/08/2021 0943
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/08/2021 0943

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98224-002
Batch: 98224
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	130		1	128	60-140	07/08/2021 0839
Benzene	50	51		1	102	70-130	07/08/2021 0839
Bromodichloromethane	50	51		1	102	70-130	07/08/2021 0839
Bromoform	50	53		1	105	70-130	07/08/2021 0839
Bromomethane (Methyl bromide)	50	52		1	103	70-130	07/08/2021 0839
2-Butanone (MEK)	100	120		1	121	70-130	07/08/2021 0839
Carbon disulfide	50	46		1	91	70-130	07/08/2021 0839
Carbon tetrachloride	50	48		1	95	70-130	07/08/2021 0839
Chlorobenzene	50	49		1	99	70-130	07/08/2021 0839
Chloroethane	50	53		1	106	70-130	07/08/2021 0839
Chloroform	50	51		1	101	70-130	07/08/2021 0839
Chloromethane (Methyl chloride)	50	59		1	118	60-140	07/08/2021 0839
Cyclohexane	50	46		1	92	70-130	07/08/2021 0839
1,2-Dibromo-3-chloropropane (DBCP)	50	48		1	96	70-130	07/08/2021 0839
Dibromochloromethane	50	52		1	104	70-130	07/08/2021 0839
1,2-Dibromoethane (EDB)	50	52		1	104	70-130	07/08/2021 0839
1,2-Dichlorobenzene	50	48		1	96	70-130	07/08/2021 0839
1,3-Dichlorobenzene	50	49		1	98	70-130	07/08/2021 0839
1,4-Dichlorobenzene	50	48		1	96	70-130	07/08/2021 0839
Dichlorodifluoromethane	50	72	N	1	145	60-140	07/08/2021 0839
1,1-Dichloroethane	50	51		1	101	70-130	07/08/2021 0839
1,2-Dichloroethane	50	50		1	100	70-130	07/08/2021 0839
1,1-Dichloroethene	50	46		1	92	70-130	07/08/2021 0839
cis-1,2-Dichloroethene	50	49		1	98	70-130	07/08/2021 0839
trans-1,2-Dichloroethene	50	49		1	98	70-130	07/08/2021 0839
1,2-Dichloropropane	50	51		1	102	70-130	07/08/2021 0839
cis-1,3-Dichloropropene	50	56		1	111	70-130	07/08/2021 0839
trans-1,3-Dichloropropene	50	56		1	111	70-130	07/08/2021 0839
Ethylbenzene	50	49		1	99	70-130	07/08/2021 0839
2-Hexanone	100	110		1	105	70-130	07/08/2021 0839
Isopropylbenzene	50	49		1	99	70-130	07/08/2021 0839
Methyl acetate	50	57		1	114	70-130	07/08/2021 0839
Methyl tertiary butyl ether (MTBE)	50	51		1	101	70-130	07/08/2021 0839
4-Methyl-2-pentanone	100	110		1	113	70-130	07/08/2021 0839
Methylcyclohexane	50	48		1	95	70-130	07/08/2021 0839
Methylene chloride	50	45		1	91	70-130	07/08/2021 0839
Styrene	50	53		1	105	70-130	07/08/2021 0839
1,1,2,2-Tetrachloroethane	50	52		1	104	70-130	07/08/2021 0839
Tetrachloroethene	50	48		1	97	70-130	07/08/2021 0839
Toluene	50	50		1	99	70-130	07/08/2021 0839
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	47		1	93	70-130	07/08/2021 0839
1,2,4-Trichlorobenzene	50	46		1	93	70-130	07/08/2021 0839
1,1,1-Trichloroethane	50	49		1	97	70-130	07/08/2021 0839
1,1,2-Trichloroethane	50	50		1	100	70-130	07/08/2021 0839

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98224-002
Batch: 98224
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	49		1	97	70-130	07/08/2021 0839
Trichlorofluoromethane	50	48		1	97	70-130	07/08/2021 0839
Vinyl chloride	50	57		1	114	70-130	07/08/2021 0839
Xylenes (total)	100	100		1	101	70-130	07/08/2021 0839

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98339-001
Batch: 98339
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/08/2021 2114
Benzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Bromoform	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/08/2021 2114
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/08/2021 2114
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Chloroethane	ND		1	2.0	0.40	ug/L	07/08/2021 2114
Chloroform	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/08/2021 2114
Cyclohexane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/08/2021 2114
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
2-Hexanone	ND		1	10	2.0	ug/L	07/08/2021 2114
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Methyl acetate	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/08/2021 2114
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/08/2021 2114
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/08/2021 2114
Methylene chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Styrene	ND		1	1.0	0.41	ug/L	07/08/2021 2114
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Toluene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/08/2021 2114
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98339-001
Batch: 98339
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2114
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/08/2021 2114

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		95	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98339-002
Batch: 98339
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	110		1	108	60-140	07/08/2021 1940
Benzene	50	50		1	99	70-130	07/08/2021 1940
Bromodichloromethane	50	50		1	100	70-130	07/08/2021 1940
Bromoform	50	44		1	88	70-130	07/08/2021 1940
Bromomethane (Methyl bromide)	50	38		1	77	70-130	07/08/2021 1940
2-Butanone (MEK)	100	120		1	118	70-130	07/08/2021 1940
Carbon disulfide	50	51		1	101	70-130	07/08/2021 1940
Carbon tetrachloride	50	48		1	97	70-130	07/08/2021 1940
Chlorobenzene	50	45		1	89	70-130	07/08/2021 1940
Chloroethane	50	39		1	78	70-130	07/08/2021 1940
Chloroform	50	49		1	97	70-130	07/08/2021 1940
Chloromethane (Methyl chloride)	50	36		1	71	60-140	07/08/2021 1940
Cyclohexane	50	40		1	80	70-130	07/08/2021 1940
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	98	70-130	07/08/2021 1940
Dibromochloromethane	50	44		1	88	70-130	07/08/2021 1940
1,2-Dibromoethane (EDB)	50	49		1	99	70-130	07/08/2021 1940
1,2-Dichlorobenzene	50	48		1	95	70-130	07/08/2021 1940
1,3-Dichlorobenzene	50	48		1	96	70-130	07/08/2021 1940
1,4-Dichlorobenzene	50	48		1	95	70-130	07/08/2021 1940
Dichlorodifluoromethane	50	37		1	74	60-140	07/08/2021 1940
1,1-Dichloroethane	50	49		1	98	70-130	07/08/2021 1940
1,2-Dichloroethane	50	49		1	99	70-130	07/08/2021 1940
1,1-Dichloroethene	50	47		1	95	70-130	07/08/2021 1940
cis-1,2-Dichloroethene	50	49		1	97	70-130	07/08/2021 1940
trans-1,2-Dichloroethene	50	48		1	96	70-130	07/08/2021 1940
1,2-Dichloropropane	50	46		1	92	70-130	07/08/2021 1940
cis-1,3-Dichloropropene	50	50		1	100	70-130	07/08/2021 1940
trans-1,3-Dichloropropene	50	49		1	99	70-130	07/08/2021 1940
Ethylbenzene	50	47		1	94	70-130	07/08/2021 1940
2-Hexanone	100	110		1	106	70-130	07/08/2021 1940
Isopropylbenzene	50	47		1	94	70-130	07/08/2021 1940
Methyl acetate	50	49		1	98	70-130	07/08/2021 1940
Methyl tertiary butyl ether (MTBE)	50	50		1	100	70-130	07/08/2021 1940
4-Methyl-2-pentanone	100	96		1	96	70-130	07/08/2021 1940
Methylcyclohexane	50	45		1	91	70-130	07/08/2021 1940
Methylene chloride	50	47		1	94	70-130	07/08/2021 1940
Styrene	50	46		1	93	70-130	07/08/2021 1940
1,1,2,2-Tetrachloroethane	50	52		1	103	70-130	07/08/2021 1940
Tetrachloroethene	50	48		1	95	70-130	07/08/2021 1940
Toluene	50	47		1	93	70-130	07/08/2021 1940
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	46		1	93	70-130	07/08/2021 1940
1,2,4-Trichlorobenzene	50	53		1	106	70-130	07/08/2021 1940
1,1,1-Trichloroethane	50	48		1	96	70-130	07/08/2021 1940
1,1,2-Trichloroethane	50	47		1	95	70-130	07/08/2021 1940

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98339-002
Batch: 98339
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	46		1	92	70-130	07/08/2021 1940
Trichlorofluoromethane	50	41		1	83	70-130	07/08/2021 1940
Vinyl chloride	50	39		1	78	70-130	07/08/2021 1940
Xylenes (total)	100	91		1	91	70-130	07/08/2021 1940

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		90	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ97011-001
Batch: 97011
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	06/28/2021 0839
Ethene	ND		1	10	2.5	ug/L	06/28/2021 0839
Methane	ND		1	10	2.5	ug/L	06/28/2021 0839
Propane	ND		1	15	5.0	ug/L	06/28/2021 0839

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ97011-002
Batch: 97011
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	570		1	103	70-130	06/28/2021 0825
Ethene	520	530		1	103	70-130	06/28/2021 0825
Methane	300	300		1	101	70-130	06/28/2021 0825
Propane	810	820		1	101	70-130	06/28/2021 0825

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ97348-001
Batch: 97348
Analytical Method: RSK - 175

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	06/30/2021 0816
Ethene	ND		1	10	2.5	ug/L	06/30/2021 0816
Methane	ND		1	10	2.5	ug/L	06/30/2021 0816
Propane	ND		1	15	5.0	ug/L	06/30/2021 0816

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ97348-002
Batch: 97348
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	550		1	99	70-130	06/30/2021 0802
Ethene	520	510		1	99	70-130	06/30/2021 0802
Methane	300	290		1	97	70-130	06/30/2021 0802
Propane	810	790		1	97	70-130	06/30/2021 0802

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 123138

Client	Report to Contact	Telephone No. / E-mail	Quote No.
EARTHCON CONSULTANTS, INC.	Mary Ann Brookeshire	mbrookshire@earthcon.com	

Address: 1880 West Oak Parkway Ste. 106
City: Marietta State: GA Zip Code: 30062
Project Name: Lennox International
Project No.: 02.20200378.21
P.O. No.:
Sampler's Signature: Tiffany Messier
Printed Name: Tiffany Messier
Analysis (Attach list if more space is needed)
Page 1 of 2
WF25024
LIO

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G=Grab C=Composite	Aqueous	Solid	Non-Aqueous	Unpres	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Field Filtered	VOC	(,A D SIM	Dissolved gases	NO_3/SO_4/Cl/Alk	Sulfide	TOC	Remarks / Cooler I.D.
MW-4	6.24.21	08:45	G	X			1	1		8	1			X	X	X	X	X	X	
MW-14	6.24.21	09:50	G	X			1	1		8	1			X	X	X	X	X	X	
MW-11	6.24.21	12:05	G	X			1	1		8	1			X	X	X	X	X	X	
MW-5	6.24.21	15:00	G	X			1	1		8	1			X	X	X	X	X	X	
TB-1	6.24.21	—	G	X										X						

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)
Sample Disposal: ☐ Return to Client ☒ Disposal by Lab
Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by [signature]	6/24/21	1853	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by [signature]	6/24/21	1853

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 1.4 °C Temp Blank ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 123136

Earthcon Consultants, Inc.

Client	Report to Contact	Telephone No. / E-mail	Quote No.
1880 W. Oak Parkway Ste 106	Mary Ann Brookshire	mbrookshire@earthcon.com	
Address	**Sampler's Signature**	**Analysis (Attach list if more space is needed)**	Page 2 of 3
Marietta	Hannah Behar		
City / **State** GA / **Zip Code** 30062	**Printed Name** Hannah Behar		
Project Name Lumax International			

Project No.	P.O. No			Matrix			No. of Containers by Preservative Type									
22.2016.0378.21																
Sample ID / Description (Combinations for each sample may be combined on one line.)	**Collection Date(s)**	**Collection Time (Military)**	**Composite / Grab**	Aqueous	Solid	Wipe/Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC	
DP-2-SO (10-11)	6/24/21	1000	G		X										X	
DP-2-SO (19-20)	6/24/21	1010	G		X										X	
DP-13-SO (10-11)	6/23/21	1500	G		X										X	
DP-13-SO (19-20)	6/23/21	1600	G		X										X	
DP-2-SO (6-7)	6/24/21	1020	G		X										X	
DP-12-SO (4-5)	6/23/21	1500	G		X										X	
DP-6-SO (10-11)	6/24/21	1130	G		X										X	
DP-12-SO (9-10)	6/23/21	1700	G		X										X	
DP-3-SO (10-11)	6/24/21	1130	G		X										X	
TB-2	6/24/21	—	G	X											X	

WF25024
LJO

Remarks / Cooler I.D.

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☑ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Hannah Behar	6/24/21	1853	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	6/24/21	1853

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 1.4/2.1 °C
Temp Blank ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEC0SN2-01

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Number 122814

Client	Report to Contact	Telephone No. / E-mail	Quote No.
EARTHCON CONSULTANTS, Inc.	Mary Ann Brakeshire	mbrakeshire@earthcon.com	
Address 1880 West Oak Parkway Ste. 106	**Sampler's Signature** x	**Analysis (Attach list if more space is needed)**	Page 3 of 3
City Marietta **State** GA **Zip Code** 30062	**Printed Name** Hannah Behas		
Project Name Cennox International			WF25024
Project No. 02.2016378.21	**P.O. No.**		LJO

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	HCl	HNO3	H2SO4	NaOH	NaOH/ZnAc	Other	VOC	1,4 D SIM	Dissolved Gases	Remarks / Cooler I.D.
DP-2-10/17-GW	6.24.21	10:10	G	X										X	X	X	
DP-DUP 1-GW	6.24.21	—	G	X										X	X	X	
DP-3-20-GW	6.24.21	12:00	G	X										X	X	X	
DP-17-20 GW	6.23.21	18:10	G	X										X	X	X	
DP-TH-10 GW	6.23.21	11:30	G	X										X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	6/24/21	1853	1. Received by		
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date 6/24/21	Time 1853

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack — Receipt Temp 2.1 °C — Temp Blank ☒ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEG03N2-01

PACE ANALYTICAL SERVICES, LLC

PaceAnalytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Earthcon Cooler Inspected by/date: JRG2 / 06/25/2021 Lot #: WF25024

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 20-2712 Chlorine Strip ID: NA Tested by: JRG2

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA

1.4 / 1.4 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		15. Were any samples containers missing/(excess) (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # _____

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 06/25/2021

Comments: Excess: EB-01-062421 6/24/21 @ 1705 8-40ml HCL vials, 1-500ml NP, 1-250ml H2SO4, 1 client provided NaOH & Zn

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 02-20160378.21

Lot Number:**WF26008**

Date Completed:07/12/2021

07/19/2021 3:32 PM
Approved and released by:
Project Manager II: **Lucas Odom**

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF26008

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

VOCs by GC/MS

The laboratory control sample duplicate (LCSD) for analytical batch 97424 exceeded acceptance criteria for DCDFM and Methylcyclohexane. These analytes are biased high and were not detected in the samples affected. Associated samples are qualified with an "L".

Sample Summary

EarthCon Consultants, Inc.

Lot Number: WF26008

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB-103-SO (1-3)	Solid	06/24/2021 1740	06/25/2021
002	SB-108-SO (1-3)	Solid	06/24/2021 1750	06/25/2021
003	SB-105-SO (1-2)	Solid	06/24/2021 1830	06/25/2021
004	SB-106-SO (1-3)	Solid	06/24/2021 1810	06/25/2021
005	SB-102-SS (1-1.5)	Solid	06/24/2021 1700	06/25/2021
006	DP-06-20-21-GW	Aqueous	06/24/2021 1410	06/25/2021
007	SB-101-SS (1-3)	Solid	06/25/2021 0915	06/25/2021
008	DP-01-10-11-SS	Solid	06/25/2021 0930	06/25/2021
009	DP-01-20-GW	Aqueous	06/25/2021 0945	06/25/2021
010	DP-08-10-SS	Solid	06/25/2021 1020	06/25/2021
011	EB-01-062521	Aqueous	06/25/2021 1100	06/25/2021
012	DP-04 (1-3) SS	Solid	06/25/2021 1100	06/25/2021
013	TRIP BLANK	Aqueous	06/25/2021 1145	06/25/2021
014	MW-4D	Aqueous	06/25/2021 0920	06/25/2021
015	MW-1D	Aqueous	06/25/2021 1045	06/25/2021
016	DP-04-10-11-SS	Solid	06/25/2021 1130	06/26/2021

(16 samples)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF26008

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB-103-SO (1-3)	Solid	Acetone	8260D	48		ug/kg	7
001	SB-103-SO (1-3)	Solid	2-Butanone (MEK)	8260D	4.7	J	ug/kg	7
001	SB-103-SO (1-3)	Solid	Ethylbenzene	8260D	3300		ug/kg	7
001	SB-103-SO (1-3)	Solid	Isopropylbenzene	8260D	8.2		ug/kg	7
001	SB-103-SO (1-3)	Solid	Xylenes (total)	8260D	11000		ug/kg	8
002	SB-108-SO (1-3)	Solid	Acetone	8260D	100		ug/kg	9
002	SB-108-SO (1-3)	Solid	2-Butanone (MEK)	8260D	16	J	ug/kg	9
002	SB-108-SO (1-3)	Solid	Ethylbenzene	8260D	2.8	J	ug/kg	9
002	SB-108-SO (1-3)	Solid	Xylenes (total)	8260D	8.7	J	ug/kg	10
003	SB-105-SO (1-2)	Solid	Acetone	8260D	68		ug/kg	11
003	SB-105-SO (1-2)	Solid	2-Butanone (MEK)	8260D	4.5	J	ug/kg	11
004	SB-106-SO (1-3)	Solid	Acetone	8260D	57		ug/kg	13
004	SB-106-SO (1-3)	Solid	2-Butanone (MEK)	8260D	5.1	J	ug/kg	13
005	SB-102-SS (1-1.5)	Solid	Acetone	8260D	36		ug/kg	15
005	SB-102-SS (1-1.5)	Solid	Tetrachloroethene	8260D	3.0	J	ug/kg	15
005	SB-102-SS (1-1.5)	Solid	1,1,2-Trichloroethane	8260D	3.2	J	ug/kg	16
005	SB-102-SS (1-1.5)	Solid	Vinyl chloride	8260D	3.6	J	ug/kg	16
006	DP-06-20-21-GW	Aqueous	Acetone	8260D	6.8	J	ug/L	17
006	DP-06-20-21-GW	Aqueous	Chloroform	8260D	0.47	J	ug/L	17
006	DP-06-20-21-GW	Aqueous	1,4-Dioxane	8260D (SIM)	1.9	J	ug/L	18
006	DP-06-20-21-GW	Aqueous	Ethane	RSK - 175	2.8	J	ug/L	18
006	DP-06-20-21-GW	Aqueous	Ethene	RSK - 175	3.0	J	ug/L	18
006	DP-06-20-21-GW	Aqueous	Methane	RSK - 175	9.3	J	ug/L	18
009	DP-01-20-GW	Aqueous	cis-1,2-Dichloroethene	8260D	13		ug/L	23
009	DP-01-20-GW	Aqueous	Tetrachloroethene	8260D	1.5		ug/L	23
009	DP-01-20-GW	Aqueous	Trichloroethene	8260D	4.2		ug/L	24
009	DP-01-20-GW	Aqueous	Methane	RSK - 175	3.7	J	ug/L	24
012	DP-04 (1-3) SS	Solid	Acetone	8260D	19	J	ug/kg	29
014	MW-4D	Aqueous	Chloride	9056A	1.8		mg/L	33
014	MW-4D	Aqueous	Nitrate - N	9056A	0.015	J	mg/L	33
014	MW-4D	Aqueous	Sulfate	9056A	0.93	J	mg/L	33
014	MW-4D	Aqueous	TOC	9060A	1.7		mg/L	33
014	MW-4D	Aqueous	1,1-Dichloroethene	8260D	0.47	J	ug/L	34
014	MW-4D	Aqueous	Tetrachloroethene	8260D	19		ug/L	34
014	MW-4D	Aqueous	Trichloroethene	8260D	0.73	J	ug/L	34
015	MW-1D	Aqueous	Chloride	9056A	2.2		mg/L	36
015	MW-1D	Aqueous	Sulfate	9056A	0.74	J	mg/L	36
015	MW-1D	Aqueous	Sulfide	SM 4500-S2 F-	1.3		mg/L	36
015	MW-1D	Aqueous	TOC	9060A	2.8		mg/L	36
015	MW-1D	Aqueous	cis-1,2-Dichloroethene	8260D	0.94	J	ug/L	37
015	MW-1D	Aqueous	Tetrachloroethene	8260D	62		ug/L	37
015	MW-1D	Aqueous	Trichloroethene	8260D	9.1		ug/L	37
015	MW-1D	Aqueous	Methane	RSK - 175	2.6	J	ug/L	38
016	DP-04-10-11-SS	Solid	Acetone	8260D	17	J	ug/kg	39

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page

(44 detections)

Client: EarthCon Consultants, Inc.
Description: SB-103-SO (1-3)
Date Sampled: 06/24/2021 1740
Date Received: 06/25/2021

Laboratory ID: WF26008-001
Matrix: Solid
% Solids: 86.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1835	JM1		97424	6.46
2	5035 High	8260D	1	07/02/2021 1752	JM1		97802	6.44
3	5035 High	8260D	4	07/08/2021 1328	JM1		98260	6.44

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	48		18	7.2	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	4.7	J	18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	3300		260	110	ug/kg	2
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	8.2		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-103-SO (1-3)
Date Sampled: 06/24/2021 1740
Date Received: 06/25/2021

Laboratory ID: WF26008-001
Matrix: Solid
% Solids: 86.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1835	JM1		97424	6.46
2	5035 High	8260D	1	07/02/2021 1752	JM1		97802	6.44
3	5035 High	8260D	4	07/08/2021 1328	JM1		98260	6.44

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	11000		2100	840	ug/kg	3

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene		112	47-138		113	47-138		108	47-138
1,2-Dichloroethane-d4		99	53-142		105	53-142		112	53-142
Toluene-d8		108	68-124		103	68-124		98	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-108-SO (1-3)
Date Sampled: 06/24/2021 1750
Date Received: 06/25/2021

Laboratory ID: WF26008-002
Matrix: Solid
% Solids: 83.1 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	07/06/2021 1211	JM1		97945	6.77

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	100		18	7.1	ug/kg	2
Benzene	71-43-2	8260D	ND		4.4	1.8	ug/kg	2
Bromodichloromethane	75-27-4	8260D	ND		4.4	1.8	ug/kg	2
Bromoform	75-25-2	8260D	ND		4.4	1.8	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.4	2.7	ug/kg	2
2-Butanone (MEK)	78-93-3	8260D	16	J	18	3.6	ug/kg	2
Carbon disulfide	75-15-0	8260D	ND		4.4	1.8	ug/kg	2
Carbon tetrachloride	56-23-5	8260D	ND		4.4	1.8	ug/kg	2
Chlorobenzene	108-90-7	8260D	ND		4.4	1.8	ug/kg	2
Chloroethane	75-00-3	8260D	ND		4.4	1.8	ug/kg	2
Chloroform	67-66-3	8260D	ND		4.4	1.8	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.4	2.7	ug/kg	2
Cyclohexane	110-82-7	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.4	1.8	ug/kg	2
Dibromochloromethane	124-48-1	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.4	1.8	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.4	1.8	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.4	1.8	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260D	ND		4.4	2.7	ug/kg	2
1,1-Dichloroethane	75-34-3	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	1.8	ug/kg	2
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	1.8	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	1.8	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	1.8	ug/kg	2
1,2-Dichloropropane	78-87-5	8260D	ND		4.4	1.8	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.4	1.8	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.4	1.8	ug/kg	2
Ethylbenzene	100-41-4	8260D	2.8	J	4.4	1.8	ug/kg	2
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	2
Isopropylbenzene	98-82-8	8260D	ND		4.4	1.8	ug/kg	2
Methyl acetate	79-20-9	8260D	ND		4.4	1.8	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.4	1.8	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	2
Methylcyclohexane	108-87-2	8260D	ND		4.4	1.8	ug/kg	2
Methylene chloride	75-09-2	8260D	ND		4.4	1.8	ug/kg	2
Styrene	100-42-5	8260D	ND		4.4	1.8	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.4	1.8	ug/kg	2
Tetrachloroethene	127-18-4	8260D	ND		4.4	1.8	ug/kg	2
Toluene	108-88-3	8260D	ND		4.4	1.8	ug/kg	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: SB-108-SO (1-3)
Date Sampled: 06/24/2021 1750
Date Received: 06/25/2021

Laboratory ID: WF26008-002
Matrix: Solid
% Solids: 83.1 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260D	1	07/06/2021 1211	JM1		97945	6.77

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.4	1.8	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.4	1.8	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.4	1.8	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.4	1.8	ug/kg	2
Trichloroethene	79-01-6	8260D	ND		4.4	1.8	ug/kg	2
Trichlorofluoromethane	75-69-4	8260D	ND		4.4	1.8	ug/kg	2
Vinyl chloride	75-01-4	8260D	ND		4.4	2.7	ug/kg	2
Xylenes (total)	1330-20-7	8260D	8.7	J	8.9	3.6	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: SB-105-SO (1-2)
Date Sampled: 06/24/2021 1830
Date Received: 06/25/2021

Laboratory ID: WF26008-003
Matrix: Solid
% Solids: 91.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1923	JM1		97424	5.50

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	68		20	8.0	ug/kg	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	4.5	J	20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Client: EarthCon Consultants, Inc.
Description: SB-105-SO (1-2)
Date Sampled: 06/24/2021 1830
Date Received: 06/25/2021

Laboratory ID: WF26008-003
Matrix: Solid
% Solids: 91.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1923	JM1		97424	5.50

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		114	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: SB-106-SO (1-3)
Date Sampled: 06/24/2021 1810
Date Received: 06/25/2021

Laboratory ID: WF26008-004
Matrix: Solid
% Solids: 89.0 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1957	JM1		97424	5.66

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	57		20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	5.1	J	20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.9	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.9	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-106-SO (1-3)
Date Sampled: 06/24/2021 1810
Date Received: 06/25/2021

Laboratory ID: WF26008-004
Matrix: Solid
% Solids: 89.0 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 1957	JM1		97424	5.66

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.9	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		113	47-138
1,2-Dichloroethane-d4		98	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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E = Quantitation of compound exceeded the calibration range
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Client: EarthCon Consultants, Inc.
Description: SB-102-SS (1-1.5)
Date Sampled: 06/24/2021 1700
Date Received: 06/25/2021

Laboratory ID: WF26008-005
Matrix: Solid
% Solids: 87.4 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2021	JM1		97424	6.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	36		17	6.6	ug/kg	1
Benzene	71-43-2	8260D	ND		4.1	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.1	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.1	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.1	2.5	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		17	3.3	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.1	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.1	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.1	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.1	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.1	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.1	2.5	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.1	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.1	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.1	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.1	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	4.1	2.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.1	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.1	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.1	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.1	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.1	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.1	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.1	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.1	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.3	3.3	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.1	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.1	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.1	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.3	3.3	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	4.1	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.1	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.1	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.1	1.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	3.0	J	4.1	1.7	ug/kg	1
Toluene	108-88-3	8260D	ND		4.1	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-102-SS (1-1.5)
Date Sampled: 06/24/2021 1700
Date Received: 06/25/2021

Laboratory ID: WF26008-005
Matrix: Solid
% Solids: 87.4 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2021	JM1		97424	6.92

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.1	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.1	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.1	1.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	3.2	J	4.1	1.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.1	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.1	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	3.6	J	4.1	2.5	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.3	3.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		115	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DP-06-20-21-GW
Date Sampled: 06/24/2021 1410
Date Received: 06/25/2021

Laboratory ID: WF26008-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1617	TML		98213

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	6.8	J	20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.47	J	1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-06-20-21-GW
Date Sampled: 06/24/2021 1410
Date Received: 06/25/2021

Laboratory ID: WF26008-006
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/08/2021 1617	TML		98213

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		93	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0131	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	1.9	J	3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/06/2021 1142	TML		97890

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	2.8	J	10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	3.0	J	10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	9.3	J	10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-101-SS (1-3)
Date Sampled: 06/25/2021 0915
Date Received: 06/25/2021

Laboratory ID: WF26008-007
Matrix: Solid
% Solids: 88.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2044	JM1		97424	4.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		25	10	ug/kg	1
Benzene	71-43-2	8260D	ND		6.3	2.5	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		6.3	2.5	ug/kg	1
Bromoform	75-25-2	8260D	ND		6.3	2.5	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		6.3	3.8	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		25	5.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		6.3	2.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		6.3	2.5	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		6.3	2.5	ug/kg	1
Chloroethane	75-00-3	8260D	ND		6.3	2.5	ug/kg	1
Chloroform	67-66-3	8260D	ND		6.3	2.5	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		6.3	3.8	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		6.3	2.5	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		6.3	2.5	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		6.3	2.5	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		6.3	2.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND	L	6.3	3.8	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		6.3	2.5	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		6.3	2.5	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		6.3	2.5	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		6.3	2.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		6.3	2.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		6.3	2.5	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		6.3	2.5	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		6.3	2.5	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		13	5.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		6.3	2.5	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		6.3	2.5	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		6.3	2.5	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		13	5.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND	L	6.3	2.5	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		6.3	2.5	ug/kg	1
Styrene	100-42-5	8260D	ND		6.3	2.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		6.3	2.5	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		6.3	2.5	ug/kg	1
Toluene	108-88-3	8260D	ND		6.3	2.5	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: SB-101-SS (1-3)
Date Sampled: 06/25/2021 0915
Date Received: 06/25/2021

Laboratory ID: WF26008-007
Matrix: Solid
% Solids: 88.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2044	JM1		97424	4.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		6.3	2.5	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		6.3	2.5	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		6.3	2.5	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		6.3	2.5	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		6.3	2.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		6.3	2.5	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		6.3	3.8	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		13	5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-01-10-11-SS
Date Sampled: 06/25/2021 0930
Date Received: 06/25/2021

Laboratory ID: WF26008-008
Matrix: Solid
% Solids: 85.0 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2339	JM1		97504	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		28	11	ug/kg	1
Benzene	71-43-2	8260D	ND		6.9	2.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		6.9	2.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		6.9	2.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		6.9	4.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		28	5.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		6.9	2.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		6.9	2.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		6.9	2.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		6.9	2.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		6.9	2.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		6.9	4.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		6.9	2.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		6.9	2.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		6.9	2.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		6.9	2.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		6.9	4.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		6.9	2.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		6.9	2.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		6.9	2.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		6.9	2.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		6.9	2.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		6.9	2.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		6.9	2.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		6.9	2.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		14	5.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		6.9	2.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		6.9	2.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		6.9	2.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		14	5.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		6.9	2.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		6.9	2.8	ug/kg	1
Styrene	100-42-5	8260D	ND		6.9	2.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		6.9	2.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		6.9	2.8	ug/kg	1
Toluene	108-88-3	8260D	ND		6.9	2.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DP-01-10-11-SS
Date Sampled: 06/25/2021 0930
Date Received: 06/25/2021

Laboratory ID: WF26008-008
Matrix: Solid
% Solids: 85.0 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/30/2021 2339	JM1		97504	4.24

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		6.9	2.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		6.9	2.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		6.9	2.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		6.9	2.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		6.9	2.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		6.9	2.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		6.9	4.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		14	5.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DP-01-20-GW
Date Sampled: 06/25/2021 0945
Date Received: 06/25/2021

Laboratory ID: WF26008-009
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0439	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	13		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	1.5		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-01-20-GW
Date Sampled: 06/25/2021 0945
Date Received: 06/25/2021

Laboratory ID: WF26008-009
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0439	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	4.2		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		97	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0156	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0927	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	3.7	J	10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-08-10-SS
Date Sampled: 06/25/2021 1020
Date Received: 06/25/2021

Laboratory ID: WF26008-010
Matrix: Solid
% Solids: 83.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0003	JM1		97504	6.71

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		18	7.1	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.9	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.9	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-08-10-SS
Date Sampled: 06/25/2021 1020
Date Received: 06/25/2021

Laboratory ID: WF26008-010
Matrix: Solid
% Solids: 83.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0003	JM1		97504	6.71

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.9	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		121	47-138
1,2-Dichloroethane-d4		112	53-142
Toluene-d8		109	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: EB-01-062521
Date Sampled: 06/25/2021 1100
Date Received: 06/25/2021

Laboratory ID: WF26008-011
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0414	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: EB-01-062521
Date Sampled: 06/25/2021 1100
Date Received: 06/25/2021

Laboratory ID: WF26008-011
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0414	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		99	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/01/2021 2238	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0943	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	ND		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-04 (1-3) SS
Date Sampled: 06/25/2021 1100
Date Received: 06/25/2021

Laboratory ID: WF26008-012
Matrix: Solid
% Solids: 78.2 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0027	JM1		97504	6.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	19	J	20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.9	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.9	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-04 (1-3) SS
Date Sampled: 06/25/2021 1100
Date Received: 06/25/2021

Laboratory ID: WF26008-012
Matrix: Solid
% Solids: 78.2 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0027	JM1		97504	6.48

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.9	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		121	47-138
1,2-Dichloroethane-d4		125	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: TRIP BLANK
Date Sampled: 06/25/2021 1145
Date Received: 06/25/2021

Laboratory ID: WF26008-013
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1039	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Laboratory ID: WF26008-013
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 06/25/2021 1145
Date Received: 06/25/2021

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1039	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		108	70-130

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
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S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: MW-4D
Date Sampled: 06/25/2021 0920
Date Received: 06/25/2021

Laboratory ID: WF26008-014
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	07/01/2021 2155	DAK		97676
1		(Chloride) 9056A	1	06/26/2021 1854	AMR		97480
1		(Nitrate - N) 9056A	1	06/26/2021 1854	AMR		97479
1		(Sulfate) 9056A	1	06/26/2021 1854	AMR		97481
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1410	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	1.8		1.0	0.25	mg/L	1
Nitrate - N		9056A	0.015	J	0.020	0.0050	mg/L	1
Sulfate		9056A	0.93	J	1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	ND		1.0	1.0	mg/L	1
TOC		9060A	1.7		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1238	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 1.642 - 1.676

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-4D
Date Sampled: 06/25/2021 0920
Date Received: 06/25/2021

Laboratory ID: WF26008-014
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1238	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	0.47	J	1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	19		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	0.73	J	1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		110	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0221	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-4D
Date Sampled: 06/25/2021 0920
Date Received: 06/25/2021

Laboratory ID: WF26008-014
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 0959	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	ND		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-1D
Date Sampled: 06/25/2021 1045
Date Received: 06/25/2021

Laboratory ID: WF26008-015
Matrix: Aqueous

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Alkalinity @) SM 2320B-2011	1	07/01/2021 2202	DAK		97676
1		(Chloride) 9056A	1	06/26/2021 1957	AMR		97480
1		(Nitrate - N) 9056A	1	06/26/2021 1957	AMR		97479
1		(Sulfate) 9056A	1	06/26/2021 1957	AMR		97481
1		(Sulfide) SM 4500-S2 F-2011	1	07/01/2021 2100	GDC		97672
1		(TOC) 9060A	1	06/27/2021 1434	AAB		96944

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Alkalinity @ pH 4.5 su		SM 2320B-2011	ND		20	20	mg CaCO3/L	1
Chloride		9056A	2.2		1.0	0.25	mg/L	1
Nitrate - N		9056A	ND		0.020	0.0050	mg/L	1
Sulfate		9056A	0.74	J	1.0	0.25	mg/L	1
Sulfide	18496-25-8	SM 4500-S2 F-2	1.3		1.0	1.0	mg/L	1
TOC		9060A	2.8		1.0	0.42	mg/L	1

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1302	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1

TOC Range: 2.776 - 2.82

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-1D
Date Sampled: 06/25/2021 1045
Date Received: 06/25/2021

Laboratory ID: WF26008-015
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1302	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.94	J	1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	62		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	9.1		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		107	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0246	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: MW-1D
Date Sampled: 06/25/2021 1045
Date Received: 06/25/2021

Laboratory ID: WF26008-015
Matrix: Aqueous

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1015	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	2.6	J	10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-04-10-11-SS
Date Sampled: 06/25/2021 1130
Date Received: 06/26/2021

Laboratory ID: WF26008-016
Matrix: Solid
% Solids: 86.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0051	JM1		97504	6.37

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	17	J	18	7.3	ug/kg	1
Benzene	71-43-2	8260D	ND		4.5	1.8	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.5	1.8	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.5	1.8	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.5	2.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		18	3.6	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.5	1.8	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.5	1.8	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.5	1.8	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.5	1.8	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.5	1.8	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.5	2.7	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.5	1.8	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.5	1.8	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.5	1.8	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.5	1.8	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.5	2.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.5	1.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.5	1.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.5	1.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.5	1.8	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.5	1.8	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.5	1.8	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.5	1.8	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.5	1.8	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.1	3.6	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.5	1.8	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.5	1.8	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.5	1.8	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.1	3.6	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.5	1.8	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.5	1.8	ug/kg	1
Styrene	100-42-5	8260D	ND		4.5	1.8	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.5	1.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.5	1.8	ug/kg	1
Toluene	108-88-3	8260D	ND		4.5	1.8	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-04-10-11-SS
Date Sampled: 06/25/2021 1130
Date Received: 06/26/2021

Laboratory ID: WF26008-016
Matrix: Solid
% Solids: 86.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/01/2021 0051	JM1		97504	6.37

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.5	1.8	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.5	1.8	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.5	1.8	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.5	1.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.5	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.5	1.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.5	2.7	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.1	3.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		108	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

Inorganic non-metals - MB

Sample ID: WQ96944-001
Batch: 96944
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
TOC	ND		1	1.0	0.42	mg/L	06/27/2021 0857

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ96944-002
Batch: 96944
Analytical Method: 9060A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
TOC	20	19		1	93	90-110	06/27/2021 0921

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97479-001
Batch: 97479
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Nitrate - N	ND		1	0.020	0.0050	mg/L	06/26/2021 1752

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97479-002
Batch: 97479
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	0.80	0.84		1	105	80-120	06/26/2021 1833

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF26008-014MS
Batch: 97479
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Nitrate - N	0.015	0.40	0.42		1	100	80-120	06/26/2021 1915

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF26008-014MD
Batch: 97479
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Nitrate - N	0.015	0.40	0.41		1	99	1.8	80-120	20	06/26/2021 1936

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97480-001
Batch: 97480
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Chloride	ND		1	1.0	0.25	mg/L	06/26/2021 1752

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97480-002
Batch: 97480
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	20	21		1	103	80-120	06/26/2021 1833

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WF26008-014MS
Batch: 97480
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Chloride	1.8	10	12		1	102	80-120	06/26/2021 1915

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF26008-014MD
Batch: 97480
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Chloride	1.8	10	12		1	100	1.6	80-120	20	06/26/2021 1936

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97481-001
Batch: 97481
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfate	ND		1	1.0	0.25	mg/L	06/26/2021 1752

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97481-002
Batch: 97481
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	20	21		1	103	80-120	06/26/2021 1833

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: WF26008-014MS
Batch: 97481
Analytical Method: 9056A
Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfate	0.93	10	11		1	101	80-120	06/26/2021 1915

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: WF26008-014MD
Batch: 97481
Analytical Method: 9056A

Matrix: Aqueous

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfate	0.93	10	11		1	99	1.5	80-120	20	06/26/2021 1936

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: WQ97672-001
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Sulfide	ND		1	1.0	1.0	mg/L	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97672-002
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Sulfide	10	10		1	100	80-120	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Sample ID: WQ97672-003
Batch: 97672
Analytical Method: SM 4500-S2 F-2011
Matrix: Aqueous

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Sulfide	10	10		1	100	0.00	80-120	20	07/01/2021 2100

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: WQ97676-002
Batch: 97676
Analytical Method: SM 2320B-2011

Matrix: Aqueous

Parameter	Spike Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Alkalinity @ pH 4.5 su	100	100		1	102	90-110	07/01/2021 2030

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - Duplicate

Sample ID: WF26008-014DU
Batch: 97676
Analytical Method: SM 2320B-2011

Matrix: Aqueous

Parameter	Sample Amount (mg CaCO3/L)	Result (mg CaCO3/L)	Q	Dil	% RPD	%RPD Limit	Analysis Date
Alkalinity @ pH 4.5 su	ND	ND		1	0.00	20	07/01/2021 2159

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97424-001
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	06/30/2021 1201
Benzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Bromoform	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	06/30/2021 1201
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	06/30/2021 1201
Carbon disulfide	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Chlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Chloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Chloroform	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	06/30/2021 1201
Cyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	06/30/2021 1201
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Ethylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
2-Hexanone	ND		1	10	4.0	ug/kg	06/30/2021 1201
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Methyl acetate	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	06/30/2021 1201
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Methylene chloride	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Styrene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Toluene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97424-001
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 1201
Vinyl chloride	ND		1	5.0	3.0	ug/kg	06/30/2021 1201
Xylenes (total)	ND		1	10	4.0	ug/kg	06/30/2021 1201

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		86	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97424-002
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	110		1	114	60-140	06/30/2021 1137
Benzene	50	51		1	101	70-130	06/30/2021 1137
Bromodichloromethane	50	48		1	96	70-130	06/30/2021 1137
Bromoform	50	53		1	107	70-130	06/30/2021 1137
Bromomethane (Methyl bromide)	50	40		1	80	70-130	06/30/2021 1137
2-Butanone (MEK)	100	100		1	104	60-140	06/30/2021 1137
Carbon disulfide	50	49		1	99	70-130	06/30/2021 1137
Carbon tetrachloride	50	50		1	100	70-130	06/30/2021 1137
Chlorobenzene	50	53		1	106	70-130	06/30/2021 1137
Chloroethane	50	46		1	91	70-130	06/30/2021 1137
Chloroform	50	46		1	91	70-130	06/30/2021 1137
Chloromethane (Methyl chloride)	50	43		1	87	60-140	06/30/2021 1137
Cyclohexane	50	44		1	88	70-130	06/30/2021 1137
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	101	70-130	06/30/2021 1137
Dibromochloromethane	50	50		1	101	70-130	06/30/2021 1137
1,2-Dibromoethane (EDB)	50	50		1	101	70-130	06/30/2021 1137
1,2-Dichlorobenzene	50	51		1	103	70-130	06/30/2021 1137
1,3-Dichlorobenzene	50	54		1	108	70-130	06/30/2021 1137
1,4-Dichlorobenzene	50	53		1	107	70-130	06/30/2021 1137
Dichlorodifluoromethane	50	39		1	78	60-140	06/30/2021 1137
1,1-Dichloroethane	50	46		1	92	70-130	06/30/2021 1137
1,2-Dichloroethane	50	43		1	85	70-130	06/30/2021 1137
1,1-Dichloroethene	50	49		1	98	70-130	06/30/2021 1137
cis-1,2-Dichloroethene	50	46		1	92	70-130	06/30/2021 1137
trans-1,2-Dichloroethene	50	49		1	97	70-130	06/30/2021 1137
1,2-Dichloropropane	50	48		1	95	70-130	06/30/2021 1137
cis-1,3-Dichloropropene	50	47		1	94	70-130	06/30/2021 1137
trans-1,3-Dichloropropene	50	49		1	99	70-130	06/30/2021 1137
Ethylbenzene	50	56		1	111	70-130	06/30/2021 1137
2-Hexanone	100	110		1	110	70-130	06/30/2021 1137
Isopropylbenzene	50	55		1	110	70-130	06/30/2021 1137
Methyl acetate	50	42		1	85	70-130	06/30/2021 1137
Methyl tertiary butyl ether (MTBE)	50	41		1	83	70-130	06/30/2021 1137
4-Methyl-2-pentanone	100	91		1	91	70-130	06/30/2021 1137
Methylcyclohexane	50	46		1	92	70-130	06/30/2021 1137
Methylene chloride	50	43		1	86	70-130	06/30/2021 1137
Styrene	50	53		1	106	70-130	06/30/2021 1137
1,1,2,2-Tetrachloroethane	50	50		1	99	70-130	06/30/2021 1137
Tetrachloroethene	50	57		1	114	70-130	06/30/2021 1137
Toluene	50	50		1	100	70-130	06/30/2021 1137
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	45		1	91	70-130	06/30/2021 1137
1,2,4-Trichlorobenzene	50	51		1	102	70-130	06/30/2021 1137
1,1,1-Trichloroethane	50	49		1	98	70-130	06/30/2021 1137
1,1,2-Trichloroethane	50	49		1	98	70-130	06/30/2021 1137

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97424-002
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	54		1	108	70-130	06/30/2021 1137
Trichlorofluoromethane	50	44		1	88	70-130	06/30/2021 1137
Vinyl chloride	50	49		1	99	70-130	06/30/2021 1137
Xylenes (total)	100	110		1	109	70-130	06/30/2021 1137

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		107	47-138
1,2-Dichloroethane-d4		89	53-142
Toluene-d8		98	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97424-003
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	100	130		1	130	13	60-140	20	06/30/2021 1810
Benzene	50	57		1	113	11	70-130	20	06/30/2021 1810
Bromodichloromethane	50	53		1	106	10	70-130	20	06/30/2021 1810
Bromoform	50	56		1	111	4.0	70-130	20	06/30/2021 1810
Bromomethane (Methyl bromide)	50	47		1	94	17	70-130	20	06/30/2021 1810
2-Butanone (MEK)	100	110		1	112	8.1	60-140	20	06/30/2021 1810
Carbon disulfide	50	56		1	112	13	70-130	20	06/30/2021 1810
Carbon tetrachloride	50	60		1	119	18	70-130	20	06/30/2021 1810
Chlorobenzene	50	59		1	117	9.7	70-130	20	06/30/2021 1810
Chloroethane	50	55		1	110	19	70-130	20	06/30/2021 1810
Chloroform	50	52		1	103	12	70-130	20	06/30/2021 1810
Chloromethane (Methyl chloride)	50	54	+	1	107	21	60-140	20	06/30/2021 1810
Cyclohexane	50	61	+	1	121	32	70-130	20	06/30/2021 1810
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	98	2.6	70-130	20	06/30/2021 1810
Dibromochloromethane	50	54		1	109	7.4	70-130	20	06/30/2021 1810
1,2-Dibromoethane (EDB)	50	53		1	106	5.2	70-130	20	06/30/2021 1810
1,2-Dichlorobenzene	50	56		1	111	8.1	70-130	20	06/30/2021 1810
1,3-Dichlorobenzene	50	59		1	118	9.4	70-130	20	06/30/2021 1810
1,4-Dichlorobenzene	50	59		1	117	9.3	70-130	20	06/30/2021 1810
Dichlorodifluoromethane	50	72	N,+	1	144	59	60-140	20	06/30/2021 1810
1,1-Dichloroethane	50	52		1	104	13	70-130	20	06/30/2021 1810
1,2-Dichloroethane	50	49		1	97	13	70-130	20	06/30/2021 1810
1,1-Dichloroethene	50	58		1	115	16	70-130	20	06/30/2021 1810
cis-1,2-Dichloroethene	50	51		1	103	11	70-130	20	06/30/2021 1810
trans-1,2-Dichloroethene	50	55		1	111	13	70-130	20	06/30/2021 1810
1,2-Dichloropropane	50	54		1	108	12	70-130	20	06/30/2021 1810
cis-1,3-Dichloropropene	50	53		1	107	13	70-130	20	06/30/2021 1810
trans-1,3-Dichloropropene	50	54		1	108	8.4	70-130	20	06/30/2021 1810
Ethylbenzene	50	62		1	124	11	70-130	20	06/30/2021 1810
2-Hexanone	100	110		1	114	3.5	70-130	20	06/30/2021 1810
Isopropylbenzene	50	62		1	123	11	70-130	20	06/30/2021 1810
Methyl acetate	50	45		1	91	6.8	70-130	20	06/30/2021 1810
Methyl tertiary butyl ether (MTBE)	50	46		1	92	9.9	70-130	20	06/30/2021 1810
4-Methyl-2-pentanone	100	97		1	97	6.1	70-130	20	06/30/2021 1810
Methylcyclohexane	50	68	N,+	1	136	38	70-130	20	06/30/2021 1810
Methylene chloride	50	47		1	95	9.5	70-130	20	06/30/2021 1810
Styrene	50	59		1	118	9.9	70-130	20	06/30/2021 1810
1,1,2,2-Tetrachloroethane	50	51		1	102	2.6	70-130	20	06/30/2021 1810
Tetrachloroethene	50	64		1	129	12	70-130	20	06/30/2021 1810
Toluene	50	56		1	113	12	70-130	20	06/30/2021 1810
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	64	+	1	128	34	70-130	20	06/30/2021 1810
1,2,4-Trichlorobenzene	50	55		1	110	7.1	70-130	20	06/30/2021 1810
1,1,1-Trichloroethane	50	56		1	113	14	70-130	20	06/30/2021 1810
1,1,2-Trichloroethane	50	52		1	104	6.2	70-130	20	06/30/2021 1810

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97424-003
Batch: 97424
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	61		1	123	13	70-130	20	06/30/2021 1810
Trichlorofluoromethane	50	60	+	1	121	32	70-130	20	06/30/2021 1810
Vinyl chloride	50	63	+	1	126	24	70-130	20	06/30/2021 1810
Xylenes (total)	100	120		1	120	10	70-130	20	06/30/2021 1810

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		107	47-138
1,2-Dichloroethane-d4		90	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97504-001
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	06/30/2021 2248
Benzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Bromoform	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	06/30/2021 2248
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	06/30/2021 2248
Carbon disulfide	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Chlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Chloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Chloroform	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	06/30/2021 2248
Cyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	06/30/2021 2248
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Ethylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
2-Hexanone	ND		1	10	4.0	ug/kg	06/30/2021 2248
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Methyl acetate	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	06/30/2021 2248
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Methylene chloride	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Styrene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Toluene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97504-001
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	06/30/2021 2248
Vinyl chloride	ND		1	5.0	3.0	ug/kg	06/30/2021 2248
Xylenes (total)	ND		1	10	4.0	ug/kg	06/30/2021 2248

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		117	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		106	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97504-002
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	97		1	97	60-140	06/30/2021 2138
Benzene	50	48		1	96	70-130	06/30/2021 2138
Bromodichloromethane	50	47		1	95	70-130	06/30/2021 2138
Bromoform	50	52		1	104	70-130	06/30/2021 2138
Bromomethane (Methyl bromide)	50	39		1	77	70-130	06/30/2021 2138
2-Butanone (MEK)	100	99		1	99	60-140	06/30/2021 2138
Carbon disulfide	50	47		1	93	70-130	06/30/2021 2138
Carbon tetrachloride	50	49		1	98	70-130	06/30/2021 2138
Chlorobenzene	50	50		1	99	70-130	06/30/2021 2138
Chloroethane	50	43		1	86	70-130	06/30/2021 2138
Chloroform	50	46		1	92	70-130	06/30/2021 2138
Chloromethane (Methyl chloride)	50	40		1	79	60-140	06/30/2021 2138
Cyclohexane	50	48		1	97	70-130	06/30/2021 2138
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	102	70-130	06/30/2021 2138
Dibromochloromethane	50	50		1	101	70-130	06/30/2021 2138
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	06/30/2021 2138
1,2-Dichlorobenzene	50	50		1	101	70-130	06/30/2021 2138
1,3-Dichlorobenzene	50	51		1	102	70-130	06/30/2021 2138
1,4-Dichlorobenzene	50	51		1	102	70-130	06/30/2021 2138
Dichlorodifluoromethane	50	43		1	86	60-140	06/30/2021 2138
1,1-Dichloroethane	50	46		1	92	70-130	06/30/2021 2138
1,2-Dichloroethane	50	46		1	92	70-130	06/30/2021 2138
1,1-Dichloroethene	50	48		1	95	70-130	06/30/2021 2138
cis-1,2-Dichloroethene	50	45		1	91	70-130	06/30/2021 2138
trans-1,2-Dichloroethene	50	46		1	92	70-130	06/30/2021 2138
1,2-Dichloropropane	50	46		1	92	70-130	06/30/2021 2138
cis-1,3-Dichloropropene	50	46		1	92	70-130	06/30/2021 2138
trans-1,3-Dichloropropene	50	48		1	97	70-130	06/30/2021 2138
Ethylbenzene	50	51		1	102	70-130	06/30/2021 2138
2-Hexanone	100	99		1	99	70-130	06/30/2021 2138
Isopropylbenzene	50	52		1	104	70-130	06/30/2021 2138
Methyl acetate	50	46		1	92	70-130	06/30/2021 2138
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	06/30/2021 2138
4-Methyl-2-pentanone	100	94		1	94	70-130	06/30/2021 2138
Methylcyclohexane	50	51		1	101	70-130	06/30/2021 2138
Methylene chloride	50	44		1	87	70-130	06/30/2021 2138
Styrene	50	50		1	100	70-130	06/30/2021 2138
1,1,2,2-Tetrachloroethane	50	50		1	99	70-130	06/30/2021 2138
Tetrachloroethene	50	52		1	103	70-130	06/30/2021 2138
Toluene	50	47		1	94	70-130	06/30/2021 2138
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	51		1	102	70-130	06/30/2021 2138
1,2,4-Trichlorobenzene	50	48		1	97	70-130	06/30/2021 2138
1,1,1-Trichloroethane	50	48		1	96	70-130	06/30/2021 2138
1,1,2-Trichloroethane	50	50		1	99	70-130	06/30/2021 2138

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97504-002
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	51		1	103	70-130	06/30/2021 2138
Trichlorofluoromethane	50	47		1	93	70-130	06/30/2021 2138
Vinyl chloride	50	45		1	91	70-130	06/30/2021 2138
Xylenes (total)	100	100		1	102	70-130	06/30/2021 2138

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		90	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97504-003
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	100	99		1	99	1.4	60-140	20	06/30/2021 2201
Benzene	50	46		1	92	4.1	70-130	20	06/30/2021 2201
Bromodichloromethane	50	47		1	94	1.1	70-130	20	06/30/2021 2201
Bromoform	50	52		1	104	0.27	70-130	20	06/30/2021 2201
Bromomethane (Methyl bromide)	50	37		1	74	4.0	70-130	20	06/30/2021 2201
2-Butanone (MEK)	100	99		1	99	0.60	60-140	20	06/30/2021 2201
Carbon disulfide	50	45		1	89	4.4	70-130	20	06/30/2021 2201
Carbon tetrachloride	50	48		1	96	2.2	70-130	20	06/30/2021 2201
Chlorobenzene	50	47		1	95	4.4	70-130	20	06/30/2021 2201
Chloroethane	50	41		1	83	3.4	70-130	20	06/30/2021 2201
Chloroform	50	46		1	91	0.57	70-130	20	06/30/2021 2201
Chloromethane (Methyl chloride)	50	38		1	75	5.4	60-140	20	06/30/2021 2201
Cyclohexane	50	47		1	94	3.0	70-130	20	06/30/2021 2201
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	99	3.7	70-130	20	06/30/2021 2201
Dibromochloromethane	50	48		1	97	3.9	70-130	20	06/30/2021 2201
1,2-Dibromoethane (EDB)	50	48		1	97	3.2	70-130	20	06/30/2021 2201
1,2-Dichlorobenzene	50	48		1	96	4.9	70-130	20	06/30/2021 2201
1,3-Dichlorobenzene	50	48		1	96	6.6	70-130	20	06/30/2021 2201
1,4-Dichlorobenzene	50	48		1	96	5.5	70-130	20	06/30/2021 2201
Dichlorodifluoromethane	50	39		1	79	8.8	60-140	20	06/30/2021 2201
1,1-Dichloroethane	50	45		1	89	2.9	70-130	20	06/30/2021 2201
1,2-Dichloroethane	50	46		1	92	0.28	70-130	20	06/30/2021 2201
1,1-Dichloroethene	50	46		1	92	3.9	70-130	20	06/30/2021 2201
cis-1,2-Dichloroethene	50	45		1	90	0.45	70-130	20	06/30/2021 2201
trans-1,2-Dichloroethene	50	45		1	91	1.1	70-130	20	06/30/2021 2201
1,2-Dichloropropane	50	46		1	91	1.1	70-130	20	06/30/2021 2201
cis-1,3-Dichloropropene	50	46		1	91	1.2	70-130	20	06/30/2021 2201
trans-1,3-Dichloropropene	50	46		1	92	4.6	70-130	20	06/30/2021 2201
Ethylbenzene	50	48		1	96	6.6	70-130	20	06/30/2021 2201
2-Hexanone	100	97		1	97	2.5	70-130	20	06/30/2021 2201
Isopropylbenzene	50	47		1	94	10	70-130	20	06/30/2021 2201
Methyl acetate	50	47		1	95	3.5	70-130	20	06/30/2021 2201
Methyl tertiary butyl ether (MTBE)	50	47		1	93	3.8	70-130	20	06/30/2021 2201
4-Methyl-2-pentanone	100	94		1	94	0.084	70-130	20	06/30/2021 2201
Methylcyclohexane	50	48		1	96	5.1	70-130	20	06/30/2021 2201
Methylene chloride	50	44		1	88	0.60	70-130	20	06/30/2021 2201
Styrene	50	48		1	96	4.1	70-130	20	06/30/2021 2201
1,1,2,2-Tetrachloroethane	50	48		1	96	3.5	70-130	20	06/30/2021 2201
Tetrachloroethene	50	48		1	96	7.8	70-130	20	06/30/2021 2201
Toluene	50	45		1	89	5.5	70-130	20	06/30/2021 2201
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	97	5.3	70-130	20	06/30/2021 2201
1,2,4-Trichlorobenzene	50	45		1	91	6.4	70-130	20	06/30/2021 2201
1,1,1-Trichloroethane	50	47		1	94	1.6	70-130	20	06/30/2021 2201
1,1,2-Trichloroethane	50	48		1	95	4.0	70-130	20	06/30/2021 2201

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97504-003
Batch: 97504
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	49		1	98	4.3	70-130	20	06/30/2021 2201
Trichlorofluoromethane	50	44		1	89	4.6	70-130	20	06/30/2021 2201
Vinyl chloride	50	43		1	87	4.3	70-130	20	06/30/2021 2201
Xylenes (total)	100	96		1	96	5.5	70-130	20	06/30/2021 2201

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	47-138
1,2-Dichloroethane-d4		89	53-142
Toluene-d8		85	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97674-001
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	07/01/2021 2149

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97674-002
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	90	70-130	07/01/2021 2033

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97802-001
Batch: 97802
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethylbenzene	ND		1	250	100	ug/kg	07/02/2021 1643

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		83	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97802-002
Batch: 97802
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethylbenzene	2500	2600		1	104	70-130	07/02/2021 1619

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	47-138
1,2-Dichloroethane-d4		83	53-142
Toluene-d8		84	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97945-001
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	07/06/2021 1017
Benzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromoform	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	07/06/2021 1017
Carbon disulfide	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloroform	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
Cyclohexane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Ethylbenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
2-Hexanone	ND		1	10	4.0	ug/kg	07/06/2021 1017
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methyl acetate	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	07/06/2021 1017
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methylene chloride	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Styrene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Toluene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97945-001
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Vinyl chloride	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
Xylenes (total)	ND		1	10	4.0	ug/kg	07/06/2021 1017

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97945-002
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	120		1	117	60-140	07/06/2021 0953
Benzene	50	46		1	93	70-130	07/06/2021 0953
Bromodichloromethane	50	48		1	95	70-130	07/06/2021 0953
Bromoform	50	51		1	103	70-130	07/06/2021 0953
Bromomethane (Methyl bromide)	50	42		1	85	70-130	07/06/2021 0953
2-Butanone (MEK)	100	100		1	100	60-140	07/06/2021 0953
Carbon disulfide	50	45		1	90	70-130	07/06/2021 0953
Carbon tetrachloride	50	47		1	94	70-130	07/06/2021 0953
Chlorobenzene	50	49		1	97	70-130	07/06/2021 0953
Chloroethane	50	48		1	96	70-130	07/06/2021 0953
Chloroform	50	44		1	88	70-130	07/06/2021 0953
Chloromethane (Methyl chloride)	50	45		1	91	60-140	07/06/2021 0953
Cyclohexane	50	44		1	88	70-130	07/06/2021 0953
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	97	70-130	07/06/2021 0953
Dibromochloromethane	50	49		1	98	70-130	07/06/2021 0953
1,2-Dibromoethane (EDB)	50	49		1	98	70-130	07/06/2021 0953
1,2-Dichlorobenzene	50	48		1	96	70-130	07/06/2021 0953
1,3-Dichlorobenzene	50	49		1	98	70-130	07/06/2021 0953
1,4-Dichlorobenzene	50	48		1	97	70-130	07/06/2021 0953
Dichlorodifluoromethane	50	49		1	98	60-140	07/06/2021 0953
1,1-Dichloroethane	50	44		1	87	70-130	07/06/2021 0953
1,2-Dichloroethane	50	45		1	90	70-130	07/06/2021 0953
1,1-Dichloroethene	50	45		1	89	70-130	07/06/2021 0953
cis-1,2-Dichloroethene	50	44		1	87	70-130	07/06/2021 0953
trans-1,2-Dichloroethene	50	44		1	88	70-130	07/06/2021 0953
1,2-Dichloropropane	50	46		1	91	70-130	07/06/2021 0953
cis-1,3-Dichloropropene	50	45		1	91	70-130	07/06/2021 0953
trans-1,3-Dichloropropene	50	48		1	96	70-130	07/06/2021 0953
Ethylbenzene	50	49		1	98	70-130	07/06/2021 0953
2-Hexanone	100	100		1	102	70-130	07/06/2021 0953
Isopropylbenzene	50	49		1	99	70-130	07/06/2021 0953
Methyl acetate	50	44		1	88	70-130	07/06/2021 0953
Methyl tertiary butyl ether (MTBE)	50	42		1	84	70-130	07/06/2021 0953
4-Methyl-2-pentanone	100	90		1	90	70-130	07/06/2021 0953
Methylcyclohexane	50	45		1	90	70-130	07/06/2021 0953
Methylene chloride	50	42		1	84	70-130	07/06/2021 0953
Styrene	50	49		1	97	70-130	07/06/2021 0953
1,1,2,2-Tetrachloroethane	50	46		1	92	70-130	07/06/2021 0953
Tetrachloroethene	50	49		1	98	70-130	07/06/2021 0953
Toluene	50	46		1	92	70-130	07/06/2021 0953
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	44		1	87	70-130	07/06/2021 0953
1,2,4-Trichlorobenzene	50	47		1	93	70-130	07/06/2021 0953
1,1,1-Trichloroethane	50	47		1	94	70-130	07/06/2021 0953
1,1,2-Trichloroethane	50	48		1	95	70-130	07/06/2021 0953

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97945-002
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	51		1	102	70-130	07/06/2021 0953
Trichlorofluoromethane	50	51		1	101	70-130	07/06/2021 0953
Vinyl chloride	50	51		1	103	70-130	07/06/2021 0953
Xylenes (total)	100	98		1	98	70-130	07/06/2021 0953

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		106	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		98	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98213-001
Batch: 98213
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/08/2021 0930
Benzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Bromoform	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/08/2021 0930
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/08/2021 0930
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Chloroethane	ND		1	2.0	0.40	ug/L	07/08/2021 0930
Chloroform	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/08/2021 0930
Cyclohexane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/08/2021 0930
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
2-Hexanone	ND		1	10	2.0	ug/L	07/08/2021 0930
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Methyl acetate	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/08/2021 0930
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/08/2021 0930
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/08/2021 0930
Methylene chloride	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Styrene	ND		1	1.0	0.41	ug/L	07/08/2021 0930
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Toluene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/08/2021 0930
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98213-001
Batch: 98213
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/08/2021 0930
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/08/2021 0930

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		96	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98213-002
Batch: 98213
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	110		1	105	60-140	07/08/2021 0810
Benzene	50	48		1	95	70-130	07/08/2021 0810
Bromodichloromethane	50	47		1	93	70-130	07/08/2021 0810
Bromoform	50	44		1	88	70-130	07/08/2021 0810
Bromomethane (Methyl bromide)	50	40		1	80	70-130	07/08/2021 0810
2-Butanone (MEK)	100	110		1	108	70-130	07/08/2021 0810
Carbon disulfide	50	48		1	95	70-130	07/08/2021 0810
Carbon tetrachloride	50	47		1	94	70-130	07/08/2021 0810
Chlorobenzene	50	46		1	91	70-130	07/08/2021 0810
Chloroethane	50	42		1	85	70-130	07/08/2021 0810
Chloroform	50	47		1	94	70-130	07/08/2021 0810
Chloromethane (Methyl chloride)	50	42		1	85	60-140	07/08/2021 0810
Cyclohexane	50	42		1	84	70-130	07/08/2021 0810
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	99	70-130	07/08/2021 0810
Dibromochloromethane	50	46		1	92	70-130	07/08/2021 0810
1,2-Dibromoethane (EDB)	50	46		1	91	70-130	07/08/2021 0810
1,2-Dichlorobenzene	50	48		1	97	70-130	07/08/2021 0810
1,3-Dichlorobenzene	50	47		1	95	70-130	07/08/2021 0810
1,4-Dichlorobenzene	50	46		1	92	70-130	07/08/2021 0810
Dichlorodifluoromethane	50	42		1	85	60-140	07/08/2021 0810
1,1-Dichloroethane	50	46		1	92	70-130	07/08/2021 0810
1,2-Dichloroethane	50	46		1	92	70-130	07/08/2021 0810
1,1-Dichloroethene	50	44		1	88	70-130	07/08/2021 0810
cis-1,2-Dichloroethene	50	46		1	93	70-130	07/08/2021 0810
trans-1,2-Dichloroethene	50	46		1	91	70-130	07/08/2021 0810
1,2-Dichloropropane	50	45		1	89	70-130	07/08/2021 0810
cis-1,3-Dichloropropene	50	46		1	93	70-130	07/08/2021 0810
trans-1,3-Dichloropropene	50	49		1	98	70-130	07/08/2021 0810
Ethylbenzene	50	45		1	91	70-130	07/08/2021 0810
2-Hexanone	100	100		1	104	70-130	07/08/2021 0810
Isopropylbenzene	50	45		1	91	70-130	07/08/2021 0810
Methyl acetate	50	46		1	92	70-130	07/08/2021 0810
Methyl tertiary butyl ether (MTBE)	50	48		1	95	70-130	07/08/2021 0810
4-Methyl-2-pentanone	100	94		1	94	70-130	07/08/2021 0810
Methylcyclohexane	50	46		1	92	70-130	07/08/2021 0810
Methylene chloride	50	44		1	88	70-130	07/08/2021 0810
Styrene	50	46		1	92	70-130	07/08/2021 0810
1,1,2,2-Tetrachloroethane	50	50		1	100	70-130	07/08/2021 0810
Tetrachloroethene	50	45		1	90	70-130	07/08/2021 0810
Toluene	50	46		1	91	70-130	07/08/2021 0810
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	47		1	95	70-130	07/08/2021 0810
1,2,4-Trichlorobenzene	50	50		1	99	70-130	07/08/2021 0810
1,1,1-Trichloroethane	50	46		1	92	70-130	07/08/2021 0810
1,1,2-Trichloroethane	50	44		1	88	70-130	07/08/2021 0810

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98213-002
Batch: 98213
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	44		1	89	70-130	07/08/2021 0810
Trichlorofluoromethane	50	46		1	92	70-130	07/08/2021 0810
Vinyl chloride	50	43		1	85	70-130	07/08/2021 0810
Xylenes (total)	100	88		1	88	70-130	07/08/2021 0810

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		89	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98260-001
Batch: 98260
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Xylenes (total)	ND		1	500	200	ug/kg	07/02/2021 1643

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		83	68-124

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98260-002
Batch: 98260
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Xylenes (total)	5000	5100		1	101	70-130	07/02/2021 1619

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	47-138
1,2-Dichloroethane-d4		83	53-142
Toluene-d8		84	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98336-001
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/08/2021 2311
Benzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromoform	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/08/2021 2311
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/08/2021 2311
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chloroethane	ND		1	2.0	0.40	ug/L	07/08/2021 2311
Chloroform	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/08/2021 2311
Cyclohexane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/08/2021 2311
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
2-Hexanone	ND		1	10	2.0	ug/L	07/08/2021 2311
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Methyl acetate	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/08/2021 2311
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/08/2021 2311
Methylene chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Styrene	ND		1	1.0	0.41	ug/L	07/08/2021 2311
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Toluene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/08/2021 2311
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98336-001
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/08/2021 2311

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98336-002
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	69		1	69	60-140	07/08/2021 2014
Benzene	50	48		1	96	70-130	07/08/2021 2014
Bromodichloromethane	50	49		1	97	70-130	07/08/2021 2014
Bromoform	50	51		1	102	70-130	07/08/2021 2014
Bromomethane (Methyl bromide)	50	52		1	103	70-130	07/08/2021 2014
2-Butanone (MEK)	100	91		1	91	70-130	07/08/2021 2014
Carbon disulfide	50	43		1	87	70-130	07/08/2021 2014
Carbon tetrachloride	50	45		1	90	70-130	07/08/2021 2014
Chlorobenzene	50	47		1	93	70-130	07/08/2021 2014
Chloroethane	50	53		1	107	70-130	07/08/2021 2014
Chloroform	50	49		1	99	70-130	07/08/2021 2014
Chloromethane (Methyl chloride)	50	60		1	120	60-140	07/08/2021 2014
Cyclohexane	50	44		1	87	70-130	07/08/2021 2014
1,2-Dibromo-3-chloropropane (DBCP)	50	54		1	109	70-130	07/08/2021 2014
Dibromochloromethane	50	49		1	98	70-130	07/08/2021 2014
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	07/08/2021 2014
1,2-Dichlorobenzene	50	50		1	99	70-130	07/08/2021 2014
1,3-Dichlorobenzene	50	47		1	95	70-130	07/08/2021 2014
1,4-Dichlorobenzene	50	47		1	93	70-130	07/08/2021 2014
Dichlorodifluoromethane	50	64		1	128	60-140	07/08/2021 2014
1,1-Dichloroethane	50	48		1	97	70-130	07/08/2021 2014
1,2-Dichloroethane	50	50		1	101	70-130	07/08/2021 2014
1,1-Dichloroethene	50	44		1	88	70-130	07/08/2021 2014
cis-1,2-Dichloroethene	50	48		1	95	70-130	07/08/2021 2014
trans-1,2-Dichloroethene	50	46		1	93	70-130	07/08/2021 2014
1,2-Dichloropropane	50	49		1	99	70-130	07/08/2021 2014
cis-1,3-Dichloropropene	50	51		1	102	70-130	07/08/2021 2014
trans-1,3-Dichloropropene	50	50		1	100	70-130	07/08/2021 2014
Ethylbenzene	50	46		1	92	70-130	07/08/2021 2014
2-Hexanone	100	92		1	92	70-130	07/08/2021 2014
Isopropylbenzene	50	48		1	97	70-130	07/08/2021 2014
Methyl acetate	50	62		1	124	70-130	07/08/2021 2014
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	07/08/2021 2014
4-Methyl-2-pentanone	100	120		1	118	70-130	07/08/2021 2014
Methylcyclohexane	50	43		1	86	70-130	07/08/2021 2014
Methylene chloride	50	47		1	93	70-130	07/08/2021 2014
Styrene	50	51		1	102	70-130	07/08/2021 2014
1,1,2,2-Tetrachloroethane	50	53		1	107	70-130	07/08/2021 2014
Tetrachloroethene	50	44		1	88	70-130	07/08/2021 2014
Toluene	50	46		1	92	70-130	07/08/2021 2014
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	43		1	87	70-130	07/08/2021 2014
1,2,4-Trichlorobenzene	50	54		1	107	70-130	07/08/2021 2014
1,1,1-Trichloroethane	50	46		1	93	70-130	07/08/2021 2014
1,1,2-Trichloroethane	50	49		1	99	70-130	07/08/2021 2014

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98336-002
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	45		1	90	70-130	07/08/2021 2014
Trichlorofluoromethane	50	44		1	88	70-130	07/08/2021 2014
Vinyl chloride	50	56		1	111	70-130	07/08/2021 2014
Xylenes (total)	100	97		1	97	70-130	07/08/2021 2014

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		88	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98390-001
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/09/2021 1004
Benzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromoform	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/09/2021 1004
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/09/2021 1004
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chloroethane	ND		1	2.0	0.40	ug/L	07/09/2021 1004
Chloroform	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/09/2021 1004
Cyclohexane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/09/2021 1004
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
2-Hexanone	ND		1	10	2.0	ug/L	07/09/2021 1004
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Methyl acetate	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/09/2021 1004
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/09/2021 1004
Methylene chloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Styrene	ND		1	1.0	0.41	ug/L	07/09/2021 1004
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Toluene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/09/2021 1004
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98390-001
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/09/2021 1004

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		107	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98390-002
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	95		1	95	60-140	07/09/2021 0829
Benzene	50	52		1	104	70-130	07/09/2021 0829
Bromodichloromethane	50	54		1	108	70-130	07/09/2021 0829
Bromoform	50	50		1	100	70-130	07/09/2021 0829
Bromomethane (Methyl bromide)	50	56		1	112	70-130	07/09/2021 0829
2-Butanone (MEK)	100	110		1	106	70-130	07/09/2021 0829
Carbon disulfide	50	61		1	121	70-130	07/09/2021 0829
Carbon tetrachloride	50	54		1	108	70-130	07/09/2021 0829
Chlorobenzene	50	50		1	101	70-130	07/09/2021 0829
Chloroethane	50	56		1	112	70-130	07/09/2021 0829
Chloroform	50	53		1	106	70-130	07/09/2021 0829
Chloromethane (Methyl chloride)	50	60		1	120	60-140	07/09/2021 0829
Cyclohexane	50	57		1	113	70-130	07/09/2021 0829
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	91	70-130	07/09/2021 0829
Dibromochloromethane	50	55		1	111	70-130	07/09/2021 0829
1,2-Dibromoethane (EDB)	50	53		1	106	70-130	07/09/2021 0829
1,2-Dichlorobenzene	50	50		1	99	70-130	07/09/2021 0829
1,3-Dichlorobenzene	50	51		1	102	70-130	07/09/2021 0829
1,4-Dichlorobenzene	50	50		1	99	70-130	07/09/2021 0829
Dichlorodifluoromethane	50	56		1	113	60-140	07/09/2021 0829
1,1-Dichloroethane	50	54		1	108	70-130	07/09/2021 0829
1,2-Dichloroethane	50	53		1	106	70-130	07/09/2021 0829
1,1-Dichloroethene	50	52		1	104	70-130	07/09/2021 0829
cis-1,2-Dichloroethene	50	53		1	106	70-130	07/09/2021 0829
trans-1,2-Dichloroethene	50	55		1	109	70-130	07/09/2021 0829
1,2-Dichloropropane	50	53		1	106	70-130	07/09/2021 0829
cis-1,3-Dichloropropene	50	55		1	111	70-130	07/09/2021 0829
trans-1,3-Dichloropropene	50	57		1	114	70-130	07/09/2021 0829
Ethylbenzene	50	51		1	102	70-130	07/09/2021 0829
2-Hexanone	100	120		1	123	70-130	07/09/2021 0829
Isopropylbenzene	50	51		1	103	70-130	07/09/2021 0829
Methyl acetate	50	62		1	123	70-130	07/09/2021 0829
Methyl tertiary butyl ether (MTBE)	50	55		1	111	70-130	07/09/2021 0829
4-Methyl-2-pentanone	100	120		1	120	70-130	07/09/2021 0829
Methylcyclohexane	50	51		1	103	70-130	07/09/2021 0829
Methylene chloride	50	53		1	106	70-130	07/09/2021 0829
Styrene	50	54		1	108	70-130	07/09/2021 0829
1,1,2,2-Tetrachloroethane	50	54		1	108	70-130	07/09/2021 0829
Tetrachloroethene	50	49		1	99	70-130	07/09/2021 0829
Toluene	50	52		1	104	70-130	07/09/2021 0829
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	70-130	07/09/2021 0829
1,2,4-Trichlorobenzene	50	45		1	90	70-130	07/09/2021 0829
1,1,1-Trichloroethane	50	54		1	108	70-130	07/09/2021 0829
1,1,2-Trichloroethane	50	52		1	104	70-130	07/09/2021 0829

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98390-002
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	49		1	98	70-130	07/09/2021 0829
Trichlorofluoromethane	50	55		1	110	70-130	07/09/2021 0829
Vinyl chloride	50	57		1	114	70-130	07/09/2021 0829
Xylenes (total)	100	100		1	104	70-130	07/09/2021 0829

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ97890-001
Batch: 97890
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	07/06/2021 0903
Ethene	ND		1	10	2.5	ug/L	07/06/2021 0903
Methane	ND		1	10	2.5	ug/L	07/06/2021 0903
Propane	ND		1	15	5.0	ug/L	07/06/2021 0903

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ97890-002
Batch: 97890
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	620		1	112	70-130	07/06/2021 0835
Ethene	520	580		1	112	70-130	07/06/2021 0835
Methane	300	320		1	109	70-130	07/06/2021 0835
Propane	810	890		1	110	70-130	07/06/2021 0835

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCSD

Sample ID: WQ97890-003
Batch: 97890
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Ethane	550	630		1	113	1.3	70-130	30	07/06/2021 0849
Ethene	520	580		1	113	1.3	70-130	30	07/06/2021 0849
Methane	300	320		1	110	0.88	70-130	30	07/06/2021 0849
Propane	810	910		1	113	2.2	70-130	30	07/06/2021 0849

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ98028-001
Batch: 98028
Analytical Method: RSK - 175

Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	07/07/2021 0855
Ethene	ND		1	10	2.5	ug/L	07/07/2021 0855
Methane	ND		1	10	2.5	ug/L	07/07/2021 0855
Propane	ND		1	15	5.0	ug/L	07/07/2021 0855

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ98028-002
Batch: 98028
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	610		1	110	70-130	07/07/2021 0841
Ethene	520	570		1	110	70-130	07/07/2021 0841
Methane	300	320		1	108	70-130	07/07/2021 0841
Propane	810	890		1	109	70-130	07/07/2021 0841

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Pace Analytical

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 122815

Client: EARTHCON CONSULTANTS, Inc.	Report to Contact: Mary Ann Brookshire	Telephone No. / E-mail: mbrookshire@earthcon.com	Quote No.
Address: 1000 West Oak Parkway St. 102	Sampler's Signature: x Tiffany Metzger	Analysis (Attach list if more space is needed)	Page ____ of ____
City: Marietta	State: GA	Zip Code: 30062	Printed Name: Tiffany Metzger
Project Name: Lennox International			Lot # Bar Code: WF26008
Project No.: VA.20160375.21	P.O. No.		LJO

Sample ID / Description (Containers for each sample may be collapsed on one line.)	Collection Date(s)	Collection Time (Military)	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Other	VOC's	1,4 Dioxane SIM	Dissolved gases						
SB-103-SO (1-3)	6/24/21	17:40	G		X							X		X								
SB-108-SO (1-3)	6/24/21	17:5	G		X							X		X								
SB-105-SO (1-2)	6/24/21	18:30	G		X							X		X								
SB-106-SO (1-3)	6/24/21	18:10	G		X							X		X								
SB-102-SS (1-1.5)	6/24/21	17:00	G		X							X		X								
DP-06-20-21-GW	6/24/21	14:10	G	X							HCl			X	X	X						
SB-101-SS-(1-3)	6/25/21	09:15	G		X							X		X								
DP-01-10-11-SS	6/25/21	09:30	G		X							X		X								
DP-01-20-GW	6/25/21	09:45	G	X							HCl			X	X	X						
DP-09-10-SS	6/25/21	10:20	G		X							X		X	X	X						

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	6/25/21	1256	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by	6/25/21	1754	3. Received by		
4. Relinquished by	~~6/25/21~~	1250	4. Laboratory received by	6/25/21	1250

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle): Yes / No — Ice Pack — Receipt Temp. 1.8 °C — Temp Blank ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK Field/Client Copy

Document Number: ME009N2-01

PACE ANALYTICAL SERVICES, LLC

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www.pacelabs.com

Number 122758

Client: EARTHCON CONSULTANTS, Inc.	Report to Contact: Mary Ann Brookshire	Telephone No. / E-mail: mbrookeshire@earthcon.com
Address: 1990 West Oak Parkway Ste. 106	Sampler's Signature: x Tiffany Messick	Quote No.
City: Marietta State: GA Zip Code: 30062	Printed Name: Tiffany Messick	Analysis (Attach list if more space is needed)
Project Name: Lennox International		Page ____ of ____

Lot # Bar Code: WF26008

Project No.	P.O. No.		Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Wipe/Swab	No of Containers by Preservative Type: Unpres.	HNO3	NaOH	HCl	NaOH	5035 kit	Field Filtered	VOCs	1,4 DIOXANE	Disinfectants						
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)																			
EB-01-062521	6.25.21	11:00	G	X						8				X	X	X					
DP-04 (1-3') SS	6.25.21	11:00	G		X							X		X							
Trip Blank	6.25.21	11:45												X							

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	6.25.21	1256	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by	6.25.21	1751	3. Received by		
4. Relinquished by	6.25.21	1950	4. Laboratory received by	6.25.21	1951

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle) Yes No Ice Pack — Receipt Temp. 1.5 °C — Temp Blank ☒ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MS003N2-01

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Number 122759

Client: Formation Consultants Inc.	Report to Contact: Mary Ann Brockshire	Telephone No. / E-mail: mbrockshire@earthlink.com	Quote No.
Address: 1880 W. Oak Parkway Ste. 106	Sampler's Signature: x Hannah Behar	Analysis (Attach list if more space is needed)	Page ___ of ___
City: Marietta / State: GA / Zip Code: 30062	Printed Name: Hannah Behar		Lot # Bar Code (Pace use only): WF26008
Project Name: Lennox International			
Project No.: 02.20160378.21	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line)	Collection Date(s)	Collection Time (Military)	Customer Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	SodiS2O3	Field Filtered	VOC	1,4 DIOX	Dissolved Gases
MW-4D	6.25.21	0920	G	X			1	1		3	1			X	X	X
MW-1D	6.25.21	1045	G	X			1	1		3	1			X	X	X
~~TB-1~~	6.25.21	1145	G	X												

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☑ Dispose of by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Hannah Behar	6.25.21	1256	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by	6/25/21	1751	3. Received by		
4. Relinquished by	6.25.21	1256	4. Laboratory received by: Pace Lab Received	6.25.21	1256

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp: 1.8 °C — Temp Blank: ☐ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

PaceAnalytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: JRG2 / 06/26/2021 Lot #: WP26008

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: 20-2712 Chlorine Strip ID: NA Tested by: JRG2

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 21-238

1.8 / 1.8 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☐ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☑ Yes	☐ No	☐ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☑ Yes	☐ No	☐ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/pheno/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JRG2 Date: 6/26/21

Comments: EXCESS: DP-04-10-11-SS WAS NOT ON CHAIN. MW-4D & MW-1D HAD 1 500mL 1 250 H2SO4 AND A CLIENT PROVIDED THIS WAS NOT LISTED ON COC

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 02.20160378.21

Lot Number:**WF26011**

Date Completed:10/19/2021
Revision Date: 10/19/2021

10/19/2021 10:21 AM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF26011

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

This report supersedes all other versions of the same lot number.

Dissolved Gases

The following samples were received with solid in the sample vial: WF26011-001, WF26011-004, WF26011-007, WF26011-017. The liquid was decanted from vial and analyzed on instrument.

VOCs by GC/MS

Internal standard response for the following sample exceeded the lower control limit: WF26011-005. The sample was re-analyzed with concurring results. As such, the sample results may be biased high. The original set of data has been reported

Reanalysis of the following sample was performed outside of the analytical holding time: WF26011-014. The sample was initially analyzed within hold time at a 5x but needed to be re-analyzed at a lower dilution. Re-analysis was performed at a 1x.

Report Revision 10/19/21

Per client request, sample -012 ID has been changed to reflect correct ID.

Sample Summary

EarthCon Consultants, Inc.

Lot Number: WF26011

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	DP-08-20-GW	Aqueous	06/25/2021 1045	06/25/2021
002	DP-10 (1-3)-SS	Solid	06/25/2021 1220	06/25/2021
003	DP-10 (10-11)-SS	Solid	06/25/2021 1230	
004	DP-04-20-GW	Aqueous	06/25/2021 1150	06/25/2021
005	DP-05 (1-3')-SS	Solid	06/25/2021 1315	06/25/2021
006	DP-05 (10-11')-SS	Solid	06/25/2021 1330	06/25/2021
007	DP-10-20-GW	Aqueous	06/25/2021 1245	06/25/2021
008	DP-07 (1-3)-SS	Solid	06/25/2021 1500	06/25/2021
009	DP-07 (10-11)-SS	Solid	06/25/2021 1510	06/25/2021
010	DP-05-20-GW	Aqueous	06/25/2021 1410	06/25/2021
011	DP-09 (1-3)-SS	Solid	06/25/2021 1540	06/25/2021
012	DUP-02-SO	Solid	06/25/2021	06/25/2021
013	DP-09 (10-11)-SS	Solid	06/25/2021 1545	06/25/2021
014	DP-07-20-21-GW	Aqueous	06/25/2021 1520	06/25/2021
015	DP-11 (10-11)-SS	Solid	06/25/2021 1650	06/25/2021
016	DP-11 (20-21)-SS	Solid	06/25/2021 1715	06/25/2021
017	DP-09 (20-21)GW	Aqueous	06/25/2021 1600	06/25/2021

(17 samples)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF26011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	DP-08-20-GW	Aqueous	Chloroform	8260D	1.1		ug/L	7
001	DP-08-20-GW	Aqueous	Methane	RSK - 175	6.7	J	ug/L	8
002	DP-10 (1-3)-SS	Solid	Acetone	8260D	43		ug/kg	9
002	DP-10 (1-3)-SS	Solid	2-Butanone (MEK)	8260D	3.8	J	ug/kg	9
004	DP-04-20-GW	Aqueous	Chloroform	8260D	0.40	J	ug/L	11
004	DP-04-20-GW	Aqueous	1,1-Dichloroethene	8260D	0.70	J	ug/L	11
004	DP-04-20-GW	Aqueous	cis-1,2-Dichloroethene	8260D	12		ug/L	11
004	DP-04-20-GW	Aqueous	Tetrachloroethene	8260D	1.2		ug/L	11
004	DP-04-20-GW	Aqueous	Trichloroethene	8260D	2.6		ug/L	12
004	DP-04-20-GW	Aqueous	Ethane	RSK - 175	6.2	J	ug/L	12
004	DP-04-20-GW	Aqueous	Ethene	RSK - 175	5.2	J	ug/L	12
004	DP-04-20-GW	Aqueous	Methane	RSK - 175	16		ug/L	12
005	DP-05 (1-3')-SS	Solid	Ethylbenzene	8260D	210	J	ug/kg	13
005	DP-05 (1-3')-SS	Solid	Isopropylbenzene	8260D	8100		ug/kg	13
005	DP-05 (1-3')-SS	Solid	Methyl acetate	8260D	200	J	ug/kg	13
005	DP-05 (1-3')-SS	Solid	Xylenes (total)	8260D	3600		ug/kg	14
007	DP-10-20-GW	Aqueous	Chloroform	8260D	0.50	J	ug/L	17
007	DP-10-20-GW	Aqueous	1,1-Dichloroethene	8260D	7.2		ug/L	17
007	DP-10-20-GW	Aqueous	cis-1,2-Dichloroethene	8260D	0.66	J	ug/L	17
007	DP-10-20-GW	Aqueous	Vinyl chloride	8260D	5.5		ug/L	18
007	DP-10-20-GW	Aqueous	1,4-Dioxane	8260D (SIM)	1.6	J	ug/L	18
007	DP-10-20-GW	Aqueous	Methane	RSK - 175	64		ug/L	18
008	DP-07 (1-3)-SS	Solid	Acetone	8260D	48		ug/kg	19
008	DP-07 (1-3)-SS	Solid	Ethylbenzene	8260D	4.6	J	ug/kg	19
008	DP-07 (1-3)-SS	Solid	Isopropylbenzene	8260D	57		ug/kg	19
008	DP-07 (1-3)-SS	Solid	Methylcyclohexane	8260D	4.8	J	ug/kg	19
008	DP-07 (1-3)-SS	Solid	Xylenes (total)	8260D	7.7	J	ug/kg	20
010	DP-05-20-GW	Aqueous	cis-1,2-Dichloroethene	8260D	2.4	J	ug/L	23
010	DP-05-20-GW	Aqueous	Ethylbenzene	8260D	16		ug/L	23
010	DP-05-20-GW	Aqueous	Isopropylbenzene	8260D	690		ug/L	23
010	DP-05-20-GW	Aqueous	Xylenes (total)	8260D	410		ug/L	24
010	DP-05-20-GW	Aqueous	1,4-Dioxane	8260D (SIM)	5.0		ug/L	24
010	DP-05-20-GW	Aqueous	Methane	RSK - 175	420		ug/L	24
011	DP-09 (1-3)-SS	Solid	Acetone	8260D	56		ug/kg	25
011	DP-09 (1-3)-SS	Solid	2-Butanone (MEK)	8260D	5.3	J	ug/kg	25
012	DUP-02-SO	Solid	Acetone	8260D	56		ug/kg	27
012	DUP-02-SO	Solid	2-Butanone (MEK)	8260D	5.1	J	ug/kg	27
012	DUP-02-SO	Solid	Methylene chloride	8260D	1.9	J	ug/kg	27
014	DP-07-20-21-GW	Aqueous	Chloroform	8260D	0.42	HJ	ug/L	31
014	DP-07-20-21-GW	Aqueous	1,1-Dichloroethane	8260D	1.2	H	ug/L	31
014	DP-07-20-21-GW	Aqueous	1,1-Dichloroethene	8260D	0.79	HJ	ug/L	31
014	DP-07-20-21-GW	Aqueous	cis-1,2-Dichloroethene	8260D	14	H	ug/L	31
014	DP-07-20-21-GW	Aqueous	Ethylbenzene	8260D	3.0	H	ug/L	31
014	DP-07-20-21-GW	Aqueous	Isopropylbenzene	8260D	2.9	H	ug/L	31
014	DP-07-20-21-GW	Aqueous	Tetrachloroethene	8260D	0.83	HJ	ug/L	31

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
014	DP-07-20-21-GW	Aqueous	Trichloroethene	8260D	0.65	HJ	ug/L	32
014	DP-07-20-21-GW	Aqueous	Vinyl chloride	8260D	6.4	H	ug/L	32
014	DP-07-20-21-GW	Aqueous	Xylenes (total)	8260D	8.4	H	ug/L	32
014	DP-07-20-21-GW	Aqueous	1,4-Dioxane	8260D (SIM)	1.6	J	ug/L	32
014	DP-07-20-21-GW	Aqueous	Methane	RSK - 175	9.4	J	ug/L	32
015	DP-11 (10-11)-SS	Solid	Acetone	8260D	32		ug/kg	33
015	DP-11 (10-11)-SS	Solid	cis-1,2-Dichloroethene	8260D	26		ug/kg	33
015	DP-11 (10-11)-SS	Solid	Vinyl chloride	8260D	5.0		ug/kg	34
017	DP-09 (20-21)GW	Aqueous	Acetone	8260D	6.0	J	ug/L	37
017	DP-09 (20-21)GW	Aqueous	cis-1,2-Dichloroethene	8260D	0.91	J	ug/L	37
017	DP-09 (20-21)GW	Aqueous	Vinyl chloride	8260D	2.3		ug/L	38
017	DP-09 (20-21)GW	Aqueous	1,4-Dioxane	8260D (SIM)	21		ug/L	38
017	DP-09 (20-21)GW	Aqueous	Methane	RSK - 175	290		ug/L	38

(58 detections)

Client: EarthCon Consultants, Inc.
Description: DP-08-20-GW
Date Sampled: 06/25/2021 1045
Date Received: 06/25/2021

Laboratory ID: WF26011-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0349	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	1.1		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-08-20-GW
Date Sampled: 06/25/2021 1045
Date Received: 06/25/2021

Laboratory ID: WF26011-001
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 0349	JDF		98336

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0310	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1118	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	6.7	J	10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-10 (1-3)-SS
Date Sampled: 06/25/2021 1220
Date Received: 06/25/2021

Laboratory ID: WF26011-002
Matrix: Solid
% Solids: 90.4 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0155	CJL2		97675	6.60

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	43		17	6.7	ug/kg	1
Benzene	71-43-2	8260D	ND		4.2	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.2	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.2	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.2	2.5	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	3.8	J	17	3.4	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.2	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.2	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.2	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.2	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.2	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.2	2.5	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.2	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.2	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.2	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.2	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.2	2.5	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.2	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.2	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.2	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.2	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.2	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.2	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.2	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.2	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.4	3.4	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.2	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.2	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.2	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.4	3.4	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.2	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.2	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.2	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.2	1.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.2	1.7	ug/kg	1
Toluene	108-88-3	8260D	ND		4.2	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-10 (1-3)-SS
Date Sampled: 06/25/2021 1220
Date Received: 06/25/2021

Laboratory ID: WF26011-002
Matrix: Solid
% Solids: 90.4 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0155	CJL2		97675	6.60

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.2	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.2	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.2	1.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.2	1.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.2	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.2	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.2	2.5	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.4	3.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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N = Recovery is out of criteria
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S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-04-20-GW
Date Sampled: 06/25/2021 1150
Date Received: 06/25/2021

Laboratory ID: WF26011-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1326	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.40	J	1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	0.70	J	1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	12		1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	1.2		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-04-20-GW
Date Sampled: 06/25/2021 1150
Date Received: 06/25/2021

Laboratory ID: WF26011-004
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1326	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	2.6		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		105	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0335	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	ND		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1134	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	6.2	J	10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	5.2	J	10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	16		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-05 (1-3')-SS
Date Sampled: 06/25/2021 1315
Date Received: 06/25/2021

Laboratory ID: WF26011-005
Matrix: Solid
% Solids: 89.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	1	07/08/2021 1350	JM1		98261	6.42

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		980	390	ug/kg	3
Benzene	71-43-2	8260D	ND		250	98	ug/kg	3
Bromodichloromethane	75-27-4	8260D	ND		250	98	ug/kg	3
Bromoform	75-25-2	8260D	ND		250	98	ug/kg	3
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		250	150	ug/kg	3
2-Butanone (MEK)	78-93-3	8260D	ND		980	200	ug/kg	3
Carbon disulfide	75-15-0	8260D	ND		250	98	ug/kg	3
Carbon tetrachloride	56-23-5	8260D	ND		250	98	ug/kg	3
Chlorobenzene	108-90-7	8260D	ND		250	98	ug/kg	3
Chloroethane	75-00-3	8260D	ND		250	98	ug/kg	3
Chloroform	67-66-3	8260D	ND		250	98	ug/kg	3
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		250	150	ug/kg	3
Cyclohexane	110-82-7	8260D	ND	L	250	98	ug/kg	3
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		250	98	ug/kg	3
Dibromochloromethane	124-48-1	8260D	ND		250	98	ug/kg	3
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		250	98	ug/kg	3
1,2-Dichlorobenzene	95-50-1	8260D	ND		250	98	ug/kg	3
1,3-Dichlorobenzene	541-73-1	8260D	ND		250	98	ug/kg	3
1,4-Dichlorobenzene	106-46-7	8260D	ND		250	98	ug/kg	3
Dichlorodifluoromethane	75-71-8	8260D	ND		250	150	ug/kg	3
1,1-Dichloroethane	75-34-3	8260D	ND		250	98	ug/kg	3
1,2-Dichloroethane	107-06-2	8260D	ND		250	98	ug/kg	3
1,1-Dichloroethene	75-35-4	8260D	ND		250	98	ug/kg	3
cis-1,2-Dichloroethene	156-59-2	8260D	ND		250	98	ug/kg	3
trans-1,2-Dichloroethene	156-60-5	8260D	ND		250	98	ug/kg	3
1,2-Dichloropropane	78-87-5	8260D	ND		250	98	ug/kg	3
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		250	98	ug/kg	3
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		250	98	ug/kg	3
Ethylbenzene	100-41-4	8260D	210	J	250	98	ug/kg	3
2-Hexanone	591-78-6	8260D	ND		490	200	ug/kg	3
Isopropylbenzene	98-82-8	8260D	8100		250	98	ug/kg	3
Methyl acetate	79-20-9	8260D	200	J	250	98	ug/kg	3
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		250	98	ug/kg	3
4-Methyl-2-pentanone	108-10-1	8260D	ND		490	200	ug/kg	3
Methylcyclohexane	108-87-2	8260D	ND		250	98	ug/kg	3
Methylene chloride	75-09-2	8260D	ND		250	98	ug/kg	3
Styrene	100-42-5	8260D	ND		250	98	ug/kg	3
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		250	98	ug/kg	3
Tetrachloroethene	127-18-4	8260D	ND		250	98	ug/kg	3
Toluene	108-88-3	8260D	ND		250	98	ug/kg	3

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-05 (1-3')-SS
Date Sampled: 06/25/2021 1315
Date Received: 06/25/2021

Laboratory ID: WF26011-005
Matrix: Solid
% Solids: 89.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
3	5035 High	8260D	1	07/08/2021 1350	JM1		98261	6.42

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		250	98	ug/kg	3
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		250	98	ug/kg	3
1,1,1-Trichloroethane	71-55-6	8260D	ND		250	98	ug/kg	3
1,1,2-Trichloroethane	79-00-5	8260D	ND		250	98	ug/kg	3
Trichloroethene	79-01-6	8260D	ND		250	98	ug/kg	3
Trichlorofluoromethane	75-69-4	8260D	ND		250	98	ug/kg	3
Vinyl chloride	75-01-4	8260D	ND		250	150	ug/kg	3
Xylenes (total)	1330-20-7	8260D	3600		490	200	ug/kg	3

Surrogate	Q	Run 3 % Recovery	Acceptance Limits
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		117	53-142
Toluene-d8		118	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-05 (10-11')-SS
Date Sampled: 06/25/2021 1330
Date Received: 06/25/2021

Laboratory ID: WF26011-006
Matrix: Solid
% Solids: 82.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0217	CJL2		97675	6.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		17	6.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.3	1.7	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.3	1.7	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.3	1.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.3	2.6	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		17	3.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.3	1.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.3	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.3	1.7	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.3	1.7	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.3	1.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.3	2.6	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.3	1.7	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.3	1.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.3	1.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.3	1.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.3	2.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	1.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	1.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.3	1.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	1.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.3	1.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.3	1.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.3	1.7	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.3	1.7	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		8.7	3.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.3	1.7	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.3	1.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.3	1.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		8.7	3.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.3	1.7	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.3	1.7	ug/kg	1
Styrene	100-42-5	8260D	ND		4.3	1.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.3	1.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.3	1.7	ug/kg	1
Toluene	108-88-3	8260D	ND		4.3	1.7	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-05 (10-11')-SS
Date Sampled: 06/25/2021 1330
Date Received: 06/25/2021

Laboratory ID: WF26011-006
Matrix: Solid
% Solids: 82.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0217	CJL2		97675	6.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.3	1.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.3	1.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.3	1.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.3	1.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.3	1.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.3	1.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.3	2.6	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		8.7	3.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		103	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
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Client: EarthCon Consultants, Inc.
Description: DP-10-20-GW
Date Sampled: 06/25/2021 1245
Date Received: 06/25/2021

Laboratory ID: WF26011-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1349	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	0.50	J	1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	7.2		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.66	J	1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-10-20-GW
Date Sampled: 06/25/2021 1245
Date Received: 06/25/2021

Laboratory ID: WF26011-007
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1349	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	5.5		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		106	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0400	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	1.6	J	3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1030	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	64		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-07 (1-3)-SS
Date Sampled: 06/25/2021 1500
Date Received: 06/25/2021

Laboratory ID: WF26011-008
Matrix: Solid
% Solids: 81.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0240	CJL2		97675	5.49

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	48		22	8.9	ug/kg	1
Benzene	71-43-2	8260D	ND		5.6	2.2	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.6	2.2	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.6	2.2	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.6	3.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		22	4.5	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.6	2.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.6	2.2	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.6	2.2	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.6	2.2	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.6	2.2	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.6	3.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.6	2.2	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.6	2.2	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.6	2.2	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.6	2.2	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.6	3.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.6	2.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.6	2.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.6	2.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.6	2.2	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.6	2.2	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.6	2.2	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.6	2.2	ug/kg	1
Ethylbenzene	100-41-4	8260D	4.6	J	5.6	2.2	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.5	ug/kg	1
Isopropylbenzene	98-82-8	8260D	57		5.6	2.2	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.6	2.2	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.6	2.2	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.5	ug/kg	1
Methylcyclohexane	108-87-2	8260D	4.8	J	5.6	2.2	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.6	2.2	ug/kg	1
Styrene	100-42-5	8260D	ND		5.6	2.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.6	2.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.6	2.2	ug/kg	1
Toluene	108-88-3	8260D	ND		5.6	2.2	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-07 (1-3)-SS
Date Sampled: 06/25/2021 1500
Date Received: 06/25/2021

Laboratory ID: WF26011-008
Matrix: Solid
% Solids: 81.7 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0240	CJL2		97675	5.49

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.6	2.2	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.6	2.2	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.6	2.2	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.6	2.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.6	2.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.6	2.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.6	3.3	ug/kg	1
Xylenes (total)	1330-20-7	8260D	7.7	J	11	4.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		94	47-138
1,2-Dichloroethane-d4		100	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-07 (10-11)-SS
Date Sampled: 06/25/2021 1510
Date Received: 06/25/2021

Laboratory ID: WF26011-009
Matrix: Solid
% Solids: 82.9 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0303	CJL2		97675	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.0	ug/kg	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	3.0	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.0	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.0	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	3.0	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.0	3.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.0	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.0	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.0	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.0	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-07 (10-11)-SS
Date Sampled: 06/25/2021 1510
Date Received: 06/25/2021

Laboratory ID: WF26011-009
Matrix: Solid
% Solids: 82.9 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0303	CJL2		97675	6.00

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	3.0	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		101	53-142
Toluene-d8		107	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Client: EarthCon Consultants, Inc.
Description: DP-05-20-GW
Date Sampled: 06/25/2021 1410
Date Received: 06/25/2021

Laboratory ID: WF26011-010
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 1724	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		100	25	ug/L	1
Benzene	71-43-2	8260D	ND		5.0	2.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	2.0	ug/L	1
Bromoform	75-25-2	8260D	ND		5.0	2.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		10	2.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		50	10	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		5.0	2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	2.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		5.0	2.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		10	2.0	ug/L	1
Chloroform	67-66-3	8260D	ND		5.0	2.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	2.5	ug/L	1
Cyclohexane	110-82-7	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	2.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	2.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	2.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	2.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	2.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		10	3.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	2.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	2.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	2.4	J	5.0	2.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	2.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	2.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	2.0	ug/L	1
Ethylbenzene	100-41-4	8260D	16		5.0	2.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		50	10	ug/L	1
Isopropylbenzene	98-82-8	8260D	690		5.0	2.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	2.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		50	10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		25	2.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		5.0	2.0	ug/L	1
Styrene	100-42-5	8260D	ND		5.0	2.1	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	2.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	2.0	ug/L	1
Toluene	108-88-3	8260D	ND		5.0	2.0	ug/L	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-05-20-GW
Date Sampled: 06/25/2021 1410
Date Received: 06/25/2021

Laboratory ID: WF26011-010
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	5	07/09/2021 1724	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	2.1	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	2.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	2.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	2.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		5.0	2.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	2.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		5.0	2.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	410		5.0	2.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		112	70-130
Toluene-d8		107	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0424	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	5.0		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1046	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	420		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-09 (1-3)-SS
Date Sampled: 06/25/2021 1540
Date Received: 06/25/2021

Laboratory ID: WF26011-011
Matrix: Solid
% Solids: 91.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0325	CJL2		97675	5.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	56		21	8.4	ug/kg	1
Benzene	71-43-2	8260D	ND		5.3	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.3	2.1	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.3	2.1	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.3	3.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	5.3	J	21	4.2	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.3	2.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.3	2.1	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.3	2.1	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.3	2.1	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.3	2.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.3	3.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.3	2.1	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.3	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.3	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.3	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.3	3.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.3	2.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.3	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.3	2.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.3	2.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.3	2.1	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.3	2.1	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.3	2.1	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.2	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.3	2.1	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.3	2.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.3	2.1	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.2	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.3	2.1	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.3	2.1	ug/kg	1
Styrene	100-42-5	8260D	ND		5.3	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.3	2.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.3	2.1	ug/kg	1
Toluene	108-88-3	8260D	ND		5.3	2.1	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-09 (1-3)-SS
Date Sampled: 06/25/2021 1540
Date Received: 06/25/2021

Laboratory ID: WF26011-011
Matrix: Solid
% Solids: 91.5 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0325	CJL2		97675	5.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.3	2.1	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.3	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.3	2.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.3	2.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.3	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.3	2.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.3	3.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		107	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DUP-02-SO
Date Sampled: 06/25/2021
Date Received: 06/25/2021

Laboratory ID: WF26011-012
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0348	CJL2		97675	5.91

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	56		19	7.8	ug/kg	1
Benzene	71-43-2	8260D	ND		4.8	1.9	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.8	1.9	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.8	1.9	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.8	2.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	5.1	J	19	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.8	1.9	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.8	1.9	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.8	1.9	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.8	1.9	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.8	1.9	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.8	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.8	1.9	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.8	1.9	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.8	1.9	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.8	1.9	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.8	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	1.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	1.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	1.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	1.9	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.8	1.9	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.8	1.9	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.8	1.9	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.8	1.9	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.7	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.8	1.9	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.8	1.9	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.8	1.9	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.7	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.8	1.9	ug/kg	1
Methylene chloride	75-09-2	8260D	1.9	J	4.8	1.9	ug/kg	1
Styrene	100-42-5	8260D	ND		4.8	1.9	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.8	1.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	1.9	ug/kg	1
Toluene	108-88-3	8260D	ND		4.8	1.9	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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B = Detected in the method blank
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Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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Client: EarthCon Consultants, Inc.
Description: DUP-02-SO
Date Sampled: 06/25/2021
Date Received: 06/25/2021

Laboratory ID: WF26011-012
Matrix: Solid
% Solids: 87.3 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0348	CJL2		97675	5.91

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.8	1.9	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.8	1.9	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.8	1.9	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.8	1.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	1.9	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.8	1.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.7	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		111	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Client: EarthCon Consultants, Inc.
Description: DP-09 (10-11)-SS
Date Sampled: 06/25/2021 1545
Date Received: 06/25/2021

Laboratory ID: WF26011-013
Matrix: Solid
% Solids: 87.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0410	CJL2		97675	5.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	8.2	ug/kg	1
Benzene	71-43-2	8260D	ND		5.1	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.1	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.1	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.1	3.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	4.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.1	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.1	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.1	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.1	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.1	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.1	3.1	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.1	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.1	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.1	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.1	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.1	3.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.1	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.1	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.1	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.1	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		10	4.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.1	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.1	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.1	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	4.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.1	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.1	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		5.1	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.1	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		5.1	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-09 (10-11)-SS
Date Sampled: 06/25/2021 1545
Date Received: 06/25/2021

Laboratory ID: WF26011-013
Matrix: Solid
% Solids: 87.6 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0410	CJL2		97675	5.58

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.1	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.1	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.1	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.1	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.1	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	3.1	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		10	4.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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Client: EarthCon Consultants, Inc.
Description: DP-07-20-21-GW
Date Sampled: 06/25/2021 1520
Date Received: 06/25/2021

Laboratory ID: WF26011-014
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	1	07/14/2021 1353	TML		98830

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND	H	20	5.0	ug/L	2
Benzene	71-43-2	8260D	ND	H	1.0	0.40	ug/L	2
Bromodichloromethane	75-27-4	8260D	ND	H	1.0	0.40	ug/L	2
Bromoform	75-25-2	8260D	ND	H	1.0	0.40	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260D	ND	H	2.0	0.40	ug/L	2
2-Butanone (MEK)	78-93-3	8260D	ND	H	10	2.0	ug/L	2
Carbon disulfide	75-15-0	8260D	ND	H	1.0	0.40	ug/L	2
Carbon tetrachloride	56-23-5	8260D	ND	H	1.0	0.40	ug/L	2
Chlorobenzene	108-90-7	8260D	ND	H	1.0	0.40	ug/L	2
Chloroethane	75-00-3	8260D	ND	H	2.0	0.40	ug/L	2
Chloroform	67-66-3	8260D	0.42	HJ	1.0	0.40	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260D	ND	H	1.0	0.50	ug/L	2
Cyclohexane	110-82-7	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND	H	1.0	0.40	ug/L	2
Dibromochloromethane	124-48-1	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260D	ND	H	1.0	0.40	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260D	ND	H	1.0	0.40	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260D	ND	H	1.0	0.40	ug/L	2
Dichlorodifluoromethane	75-71-8	8260D	ND	H	2.0	0.60	ug/L	2
1,1-Dichloroethane	75-34-3	8260D	1.2	H	1.0	0.40	ug/L	2
1,2-Dichloroethane	107-06-2	8260D	ND	H	1.0	0.40	ug/L	2
1,1-Dichloroethene	75-35-4	8260D	0.79	HJ	1.0	0.40	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260D	14	H	1.0	0.40	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260D	ND	H	1.0	0.40	ug/L	2
1,2-Dichloropropane	78-87-5	8260D	ND	H	1.0	0.40	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260D	ND	H	1.0	0.40	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260D	ND	H	1.0	0.40	ug/L	2
Ethylbenzene	100-41-4	8260D	3.0	H	1.0	0.40	ug/L	2
2-Hexanone	591-78-6	8260D	ND	H	10	2.0	ug/L	2
Isopropylbenzene	98-82-8	8260D	2.9	H	1.0	0.40	ug/L	2
Methyl acetate	79-20-9	8260D	ND	H	1.0	0.40	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND	H	1.0	0.40	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260D	ND	H	10	2.0	ug/L	2
Methylcyclohexane	108-87-2	8260D	ND	H	5.0	0.40	ug/L	2
Methylene chloride	75-09-2	8260D	ND	H	1.0	0.40	ug/L	2
Styrene	100-42-5	8260D	ND	H	1.0	0.41	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND	H	1.0	0.40	ug/L	2
Tetrachloroethene	127-18-4	8260D	0.83	HJ	1.0	0.40	ug/L	2
Toluene	108-88-3	8260D	ND	H	1.0	0.40	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-07-20-21-GW
Date Sampled: 06/25/2021 1520
Date Received: 06/25/2021

Laboratory ID: WF26011-014
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	1	07/14/2021 1353	TML		98830

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND	H	1.0	0.42	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260D	ND	H	1.0	0.40	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260D	ND	H	1.0	0.40	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260D	ND	H	1.0	0.40	ug/L	2
Trichloroethene	79-01-6	8260D	0.65	HJ	1.0	0.40	ug/L	2
Trichlorofluoromethane	75-69-4	8260D	ND	H	1.0	0.40	ug/L	2
Vinyl chloride	75-01-4	8260D	6.4	H	1.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260D	8.4	H	1.0	0.40	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene	H	104	70-130
1,2-Dichloroethane-d4	H	110	70-130
Toluene-d8	H	106	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0449	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	1.6	J	3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1102	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	9.4	J	10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-11 (10-11)-SS
Date Sampled: 06/25/2021 1650
Date Received: 06/25/2021

Laboratory ID: WF26011-015
Matrix: Solid
% Solids: 83.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0433	CJL2		97675	7.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	32		15	6.1	ug/kg	1
Benzene	71-43-2	8260D	ND		3.8	1.5	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		3.8	1.5	ug/kg	1
Bromoform	75-25-2	8260D	ND		3.8	1.5	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		3.8	2.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		15	3.1	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		3.8	1.5	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		3.8	1.5	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		3.8	1.5	ug/kg	1
Chloroethane	75-00-3	8260D	ND		3.8	1.5	ug/kg	1
Chloroform	67-66-3	8260D	ND		3.8	1.5	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		3.8	2.3	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		3.8	1.5	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		3.8	1.5	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		3.8	1.5	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		3.8	1.5	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		3.8	2.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		3.8	1.5	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		3.8	1.5	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	26		3.8	1.5	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		3.8	1.5	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		3.8	1.5	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		3.8	1.5	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		3.8	1.5	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		3.8	1.5	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		7.7	3.1	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		3.8	1.5	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		3.8	1.5	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		3.8	1.5	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		7.7	3.1	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		3.8	1.5	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		3.8	1.5	ug/kg	1
Styrene	100-42-5	8260D	ND		3.8	1.5	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		3.8	1.5	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		3.8	1.5	ug/kg	1
Toluene	108-88-3	8260D	ND		3.8	1.5	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-11 (10-11)-SS
Date Sampled: 06/25/2021 1650
Date Received: 06/25/2021

Laboratory ID: WF26011-015
Matrix: Solid
% Solids: 83.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0433	CJL2		97675	7.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		3.8	1.5	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		3.8	1.5	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		3.8	1.5	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		3.8	1.5	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		3.8	1.5	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		3.8	1.5	ug/kg	1
Vinyl chloride	75-01-4	8260D	5.0		3.8	2.3	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		7.7	3.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		109	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-11 (20-21)-SS
Date Sampled: 06/25/2021 1715
Date Received: 06/25/2021

Laboratory ID: WF26011-016
Matrix: Solid
% Solids: 81.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0456	CJL2		97675	6.22

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		20	7.9	ug/kg	1
Benzene	71-43-2	8260D	ND		4.9	2.0	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		4.9	2.0	ug/kg	1
Bromoform	75-25-2	8260D	ND		4.9	2.0	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		4.9	2.9	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		20	3.9	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		4.9	2.0	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		4.9	2.0	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		4.9	2.0	ug/kg	1
Chloroethane	75-00-3	8260D	ND		4.9	2.0	ug/kg	1
Chloroform	67-66-3	8260D	ND		4.9	2.0	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		4.9	2.9	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		4.9	2.0	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		4.9	2.0	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		4.9	2.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		4.9	2.0	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		4.9	2.9	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	2.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	2.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	2.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	2.0	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		4.9	2.0	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		4.9	2.0	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		4.9	2.0	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		4.9	2.0	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		9.8	3.9	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		4.9	2.0	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		4.9	2.0	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		4.9	2.0	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		9.8	3.9	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		4.9	2.0	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		4.9	2.0	ug/kg	1
Styrene	100-42-5	8260D	ND		4.9	2.0	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		4.9	2.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	2.0	ug/kg	1
Toluene	108-88-3	8260D	ND		4.9	2.0	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
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L = LCS/LCSD failure
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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Client: EarthCon Consultants, Inc.
Description: DP-11 (20-21)-SS
Date Sampled: 06/25/2021 1715
Date Received: 06/25/2021

Laboratory ID: WF26011-016
Matrix: Solid
% Solids: 81.8 06/26/2021 1851

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/02/2021 0456	CJL2		97675	6.22

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		4.9	2.0	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		4.9	2.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		4.9	2.0	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		4.9	2.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	2.0	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		4.9	2.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	2.9	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		9.8	3.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		108	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
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Client: EarthCon Consultants, Inc.
Description: DP-09 (20-21)GW
Date Sampled: 06/25/2021 1600
Date Received: 06/25/2021

Laboratory ID: WF26011-017
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1413	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	6.0	J	20	5.0	ug/L	1
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		1.0	0.40	ug/L	1
Bromoform	75-25-2	8260D	ND		1.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		2.0	0.40	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260D	ND		1.0	0.40	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		1.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		1.0	0.40	ug/L	1
Chloroethane	75-00-3	8260D	ND		2.0	0.40	ug/L	1
Chloroform	67-66-3	8260D	ND		1.0	0.40	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		1.0	0.50	ug/L	1
Cyclohexane	110-82-7	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		1.0	0.40	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		1.0	0.40	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		1.0	0.40	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		1.0	0.40	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		1.0	0.40	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		2.0	0.60	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	0.40	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	0.91	J	1.0	0.40	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		1.0	0.40	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		1.0	0.40	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		1.0	0.40	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	2.0	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		1.0	0.40	ug/L	1
Methyl acetate	79-20-9	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	2.0	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	0.40	ug/L	1
Methylene chloride	75-09-2	8260D	ND		1.0	0.40	ug/L	1
Styrene	100-42-5	8260D	ND		1.0	0.41	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		1.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1

LOQ = Limit of Quantitation
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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-09 (20-21)GW
Date Sampled: 06/25/2021 1600
Date Received: 06/25/2021

Laboratory ID: WF26011-017
Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/09/2021 1413	TML		98390

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		1.0	0.42	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		1.0	0.40	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		1.0	0.40	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		1.0	0.40	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	0.40	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		1.0	0.40	ug/L	1
Vinyl chloride	75-01-4	8260D	2.3		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		104	70-130

Volatile Organic Compounds by GC/MS (SIM)

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D (SIM)	1	07/02/2021 0514	CJL2		97674

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,4-Dioxane	123-91-1	8260D (SIM)	21		3.0	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	40-170

Dissolved Gases

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2		RSK - 175	1	07/07/2021 1150	TML		98028

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Ethane	74-84-0	RSK - 175	ND		10	2.5	ug/L	2
Ethene	74-85-1	RSK - 175	ND		10	2.5	ug/L	2
Methane	74-82-8	RSK - 175	290		10	2.5	ug/L	2
Propane	74-98-6	RSK - 175	ND		15	5.0	ug/L	2

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

QC Summary

Volatile Organic Compounds by GC/MS (SIM) - MB

Sample ID: WQ97674-001
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	1.0	ug/L	07/01/2021 2149

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	40-170

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS (SIM) - LCS

Sample ID: WQ97674-002
Batch: 97674
Analytical Method: 8260D (SIM)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	90	70-130	07/01/2021 2033

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		114	40-170

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97675-001
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	07/02/2021 0028
Benzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Bromoform	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	07/02/2021 0028
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	07/02/2021 0028
Carbon disulfide	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Chlorobenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Chloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Chloroform	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	07/02/2021 0028
Cyclohexane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	07/02/2021 0028
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Ethylbenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
2-Hexanone	ND		1	10	4.0	ug/kg	07/02/2021 0028
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Methyl acetate	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	07/02/2021 0028
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Methylene chloride	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Styrene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Toluene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97675-001
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	07/02/2021 0028
Vinyl chloride	ND		1	5.0	3.0	ug/kg	07/02/2021 0028
Xylenes (total)	ND		1	10	4.0	ug/kg	07/02/2021 0028

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		103	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97675-002
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	83		1	83	60-140	07/01/2021 2320
Benzene	50	51		1	102	70-130	07/01/2021 2320
Bromodichloromethane	50	50		1	101	70-130	07/01/2021 2320
Bromoform	50	45		1	90	70-130	07/01/2021 2320
Bromomethane (Methyl bromide)	50	48		1	95	70-130	07/01/2021 2320
2-Butanone (MEK)	100	86		1	86	60-140	07/01/2021 2320
Carbon disulfide	50	55		1	110	70-130	07/01/2021 2320
Carbon tetrachloride	50	54		1	109	70-130	07/01/2021 2320
Chlorobenzene	50	48		1	97	70-130	07/01/2021 2320
Chloroethane	50	52		1	104	70-130	07/01/2021 2320
Chloroform	50	51		1	102	70-130	07/01/2021 2320
Chloromethane (Methyl chloride)	50	55		1	110	60-140	07/01/2021 2320
Cyclohexane	50	64		1	128	70-130	07/01/2021 2320
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	70-130	07/01/2021 2320
Dibromochloromethane	50	47		1	93	70-130	07/01/2021 2320
1,2-Dibromoethane (EDB)	50	47		1	94	70-130	07/01/2021 2320
1,2-Dichlorobenzene	50	49		1	98	70-130	07/01/2021 2320
1,3-Dichlorobenzene	50	49		1	98	70-130	07/01/2021 2320
1,4-Dichlorobenzene	50	48		1	97	70-130	07/01/2021 2320
Dichlorodifluoromethane	50	64		1	129	60-140	07/01/2021 2320
1,1-Dichloroethane	50	53		1	106	70-130	07/01/2021 2320
1,2-Dichloroethane	50	53		1	106	70-130	07/01/2021 2320
1,1-Dichloroethene	50	54		1	109	70-130	07/01/2021 2320
cis-1,2-Dichloroethene	50	51		1	101	70-130	07/01/2021 2320
trans-1,2-Dichloroethene	50	52		1	105	70-130	07/01/2021 2320
1,2-Dichloropropane	50	50		1	100	70-130	07/01/2021 2320
cis-1,3-Dichloropropene	50	49		1	97	70-130	07/01/2021 2320
trans-1,3-Dichloropropene	50	48		1	97	70-130	07/01/2021 2320
Ethylbenzene	50	50		1	99	70-130	07/01/2021 2320
2-Hexanone	100	93		1	93	70-130	07/01/2021 2320
Isopropylbenzene	50	51		1	102	70-130	07/01/2021 2320
Methyl acetate	50	50		1	100	70-130	07/01/2021 2320
Methyl tertiary butyl ether (MTBE)	50	49		1	98	70-130	07/01/2021 2320
4-Methyl-2-pentanone	100	98		1	98	70-130	07/01/2021 2320
Methylcyclohexane	50	55		1	110	70-130	07/01/2021 2320
Methylene chloride	50	48		1	95	70-130	07/01/2021 2320
Styrene	50	47		1	95	70-130	07/01/2021 2320
1,1,2,2-Tetrachloroethane	50	49		1	98	70-130	07/01/2021 2320
Tetrachloroethene	50	50		1	101	70-130	07/01/2021 2320
Toluene	50	49		1	97	70-130	07/01/2021 2320
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	56		1	111	70-130	07/01/2021 2320
1,2,4-Trichlorobenzene	50	46		1	92	70-130	07/01/2021 2320
1,1,1-Trichloroethane	50	54		1	109	70-130	07/01/2021 2320
1,1,2-Trichloroethane	50	48		1	96	70-130	07/01/2021 2320

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97675-002
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	50		1	100	70-130	07/01/2021 2320
Trichlorofluoromethane	50	59		1	119	70-130	07/01/2021 2320
Vinyl chloride	50	53		1	107	70-130	07/01/2021 2320
Xylenes (total)	100	98		1	98	70-130	07/01/2021 2320

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	47-138
1,2-Dichloroethane-d4		105	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97675-003
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Acetone	100	81		1	81	2.5	60-140	20	07/01/2021 2343
Benzene	50	48		1	97	5.1	70-130	20	07/01/2021 2343
Bromodichloromethane	50	49		1	98	3.0	70-130	20	07/01/2021 2343
Bromoform	50	45		1	90	0.048	70-130	20	07/01/2021 2343
Bromomethane (Methyl bromide)	50	48		1	95	0.16	70-130	20	07/01/2021 2343
2-Butanone (MEK)	100	87		1	87	1.5	60-140	20	07/01/2021 2343
Carbon disulfide	50	52		1	104	4.9	70-130	20	07/01/2021 2343
Carbon tetrachloride	50	53		1	105	3.5	70-130	20	07/01/2021 2343
Chlorobenzene	50	47		1	94	2.5	70-130	20	07/01/2021 2343
Chloroethane	50	50		1	101	3.3	70-130	20	07/01/2021 2343
Chloroform	50	49		1	98	3.6	70-130	20	07/01/2021 2343
Chloromethane (Methyl chloride)	50	52		1	105	4.6	60-140	20	07/01/2021 2343
Cyclohexane	50	63		1	127	0.95	70-130	20	07/01/2021 2343
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	4.7	70-130	20	07/01/2021 2343
Dibromochloromethane	50	45		1	91	2.5	70-130	20	07/01/2021 2343
1,2-Dibromoethane (EDB)	50	46		1	92	1.3	70-130	20	07/01/2021 2343
1,2-Dichlorobenzene	50	48		1	96	2.1	70-130	20	07/01/2021 2343
1,3-Dichlorobenzene	50	48		1	96	1.3	70-130	20	07/01/2021 2343
1,4-Dichlorobenzene	50	47		1	95	2.0	70-130	20	07/01/2021 2343
Dichlorodifluoromethane	50	62		1	124	3.7	60-140	20	07/01/2021 2343
1,1-Dichloroethane	50	51		1	101	4.4	70-130	20	07/01/2021 2343
1,2-Dichloroethane	50	50		1	101	5.3	70-130	20	07/01/2021 2343
1,1-Dichloroethene	50	52		1	105	4.0	70-130	20	07/01/2021 2343
cis-1,2-Dichloroethene	50	49		1	98	3.0	70-130	20	07/01/2021 2343
trans-1,2-Dichloroethene	50	51		1	101	3.5	70-130	20	07/01/2021 2343
1,2-Dichloropropane	50	48		1	97	3.5	70-130	20	07/01/2021 2343
cis-1,3-Dichloropropene	50	48		1	96	1.5	70-130	20	07/01/2021 2343
trans-1,3-Dichloropropene	50	47		1	95	2.1	70-130	20	07/01/2021 2343
Ethylbenzene	50	48		1	95	3.8	70-130	20	07/01/2021 2343
2-Hexanone	100	96		1	96	3.3	70-130	20	07/01/2021 2343
Isopropylbenzene	50	49		1	98	4.3	70-130	20	07/01/2021 2343
Methyl acetate	50	51		1	101	1.3	70-130	20	07/01/2021 2343
Methyl tertiary butyl ether (MTBE)	50	48		1	95	2.6	70-130	20	07/01/2021 2343
4-Methyl-2-pentanone	100	98		1	98	0.44	70-130	20	07/01/2021 2343
Methylcyclohexane	50	52		1	104	5.8	70-130	20	07/01/2021 2343
Methylene chloride	50	46		1	92	3.3	70-130	20	07/01/2021 2343
Styrene	50	46		1	91	3.8	70-130	20	07/01/2021 2343
1,1,2,2-Tetrachloroethane	50	48		1	97	0.90	70-130	20	07/01/2021 2343
Tetrachloroethene	50	48		1	96	5.0	70-130	20	07/01/2021 2343
Toluene	50	47		1	94	3.2	70-130	20	07/01/2021 2343
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	55		1	110	0.97	70-130	20	07/01/2021 2343
1,2,4-Trichlorobenzene	50	47		1	94	1.2	70-130	20	07/01/2021 2343
1,1,1-Trichloroethane	50	52		1	103	5.2	70-130	20	07/01/2021 2343
1,1,2-Trichloroethane	50	47		1	94	2.0	70-130	20	07/01/2021 2343

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: WQ97675-003
Batch: 97675
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	48		1	96	4.1	70-130	20	07/01/2021 2343
Trichlorofluoromethane	50	57		1	114	4.0	70-130	20	07/01/2021 2343
Vinyl chloride	50	53		1	105	1.7	70-130	20	07/01/2021 2343
Xylenes (total)	100	95		1	95	2.8	70-130	20	07/01/2021 2343

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	47-138
1,2-Dichloroethane-d4		103	53-142
Toluene-d8		97	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98261-001
Batch: 98261
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	1000	400	ug/kg	07/08/2021 1305
Benzene	ND		1	250	100	ug/kg	07/08/2021 1305
Bromodichloromethane	ND		1	250	100	ug/kg	07/08/2021 1305
Bromoform	ND		1	250	100	ug/kg	07/08/2021 1305
Bromomethane (Methyl bromide)	ND		1	250	150	ug/kg	07/08/2021 1305
2-Butanone (MEK)	ND		1	1000	200	ug/kg	07/08/2021 1305
Carbon disulfide	ND		1	250	100	ug/kg	07/08/2021 1305
Carbon tetrachloride	ND		1	250	100	ug/kg	07/08/2021 1305
Chlorobenzene	ND		1	250	100	ug/kg	07/08/2021 1305
Chloroethane	ND		1	250	100	ug/kg	07/08/2021 1305
Chloroform	ND		1	250	100	ug/kg	07/08/2021 1305
Chloromethane (Methyl chloride)	ND		1	250	150	ug/kg	07/08/2021 1305
Cyclohexane	ND		1	250	100	ug/kg	07/08/2021 1305
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	250	100	ug/kg	07/08/2021 1305
Dibromochloromethane	ND		1	250	100	ug/kg	07/08/2021 1305
1,2-Dibromoethane (EDB)	ND		1	250	100	ug/kg	07/08/2021 1305
1,2-Dichlorobenzene	ND		1	250	100	ug/kg	07/08/2021 1305
1,3-Dichlorobenzene	ND		1	250	100	ug/kg	07/08/2021 1305
1,4-Dichlorobenzene	ND		1	250	100	ug/kg	07/08/2021 1305
Dichlorodifluoromethane	ND		1	250	150	ug/kg	07/08/2021 1305
1,1-Dichloroethane	ND		1	250	100	ug/kg	07/08/2021 1305
1,2-Dichloroethane	ND		1	250	100	ug/kg	07/08/2021 1305
1,1-Dichloroethene	ND		1	250	100	ug/kg	07/08/2021 1305
cis-1,2-Dichloroethene	ND		1	250	100	ug/kg	07/08/2021 1305
trans-1,2-Dichloroethene	ND		1	250	100	ug/kg	07/08/2021 1305
1,2-Dichloropropane	ND		1	250	100	ug/kg	07/08/2021 1305
cis-1,3-Dichloropropene	ND		1	250	100	ug/kg	07/08/2021 1305
trans-1,3-Dichloropropene	ND		1	250	100	ug/kg	07/08/2021 1305
Ethylbenzene	ND		1	250	100	ug/kg	07/08/2021 1305
2-Hexanone	ND		1	500	200	ug/kg	07/08/2021 1305
Isopropylbenzene	ND		1	250	100	ug/kg	07/08/2021 1305
Methyl acetate	ND		1	250	100	ug/kg	07/08/2021 1305
Methyl tertiary butyl ether (MTBE)	ND		1	250	100	ug/kg	07/08/2021 1305
4-Methyl-2-pentanone	ND		1	500	200	ug/kg	07/08/2021 1305
Methylcyclohexane	ND		1	250	100	ug/kg	07/08/2021 1305
Methylene chloride	ND		1	250	100	ug/kg	07/08/2021 1305
Styrene	ND		1	250	100	ug/kg	07/08/2021 1305
1,1,2,2-Tetrachloroethane	ND		1	250	100	ug/kg	07/08/2021 1305
Tetrachloroethene	ND		1	250	100	ug/kg	07/08/2021 1305
Toluene	ND		1	250	100	ug/kg	07/08/2021 1305
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	250	100	ug/kg	07/08/2021 1305
1,2,4-Trichlorobenzene	ND		1	250	100	ug/kg	07/08/2021 1305
1,1,1-Trichloroethane	ND		1	250	100	ug/kg	07/08/2021 1305
1,1,2-Trichloroethane	ND		1	250	100	ug/kg	07/08/2021 1305

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98261-001
Batch: 98261
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	250	100	ug/kg	07/08/2021 1305
Trichlorofluoromethane	ND		1	250	100	ug/kg	07/08/2021 1305
Vinyl chloride	ND		1	250	150	ug/kg	07/08/2021 1305
Xylenes (total)	ND		1	500	200	ug/kg	07/08/2021 1305

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		94	68-124

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98261-002
Batch: 98261
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	5000	3900		1	79	60-140	07/08/2021 1243
Benzene	2500	2500		1	101	70-130	07/08/2021 1243
Bromodichloromethane	2500	2600		1	104	70-130	07/08/2021 1243
Bromoform	2500	2100		1	82	70-130	07/08/2021 1243
Bromomethane (Methyl bromide)	2500	2300		1	91	70-130	07/08/2021 1243
2-Butanone (MEK)	5000	4000		1	80	60-140	07/08/2021 1243
Carbon disulfide	2500	2600		1	102	70-130	07/08/2021 1243
Carbon tetrachloride	2500	2800		1	114	70-130	07/08/2021 1243
Chlorobenzene	2500	2400		1	95	70-130	07/08/2021 1243
Chloroethane	2500	2500		1	101	70-130	07/08/2021 1243
Chloroform	2500	2600		1	106	70-130	07/08/2021 1243
Chloromethane (Methyl chloride)	2500	2500		1	100	60-140	07/08/2021 1243
Cyclohexane	2500	3600	N	1	144	70-130	07/08/2021 1243
1,2-Dibromo-3-chloropropane (DBCP)	2500	2100		1	82	70-130	07/08/2021 1243
Dibromochloromethane	2500	2200		1	88	70-130	07/08/2021 1243
1,2-Dibromoethane (EDB)	2500	2200		1	88	70-130	07/08/2021 1243
1,2-Dichlorobenzene	2500	2400		1	97	70-130	07/08/2021 1243
1,3-Dichlorobenzene	2500	2400		1	98	70-130	07/08/2021 1243
1,4-Dichlorobenzene	2500	2400		1	95	70-130	07/08/2021 1243
Dichlorodifluoromethane	2500	2600		1	105	60-140	07/08/2021 1243
1,1-Dichloroethane	2500	2700		1	108	70-130	07/08/2021 1243
1,2-Dichloroethane	2500	2600		1	105	70-130	07/08/2021 1243
1,1-Dichloroethene	2500	2700		1	107	70-130	07/08/2021 1243
cis-1,2-Dichloroethene	2500	2600		1	102	70-130	07/08/2021 1243
trans-1,2-Dichloroethene	2500	2700		1	107	70-130	07/08/2021 1243
1,2-Dichloropropane	2500	2500		1	101	70-130	07/08/2021 1243
cis-1,3-Dichloropropene	2500	2400		1	98	70-130	07/08/2021 1243
trans-1,3-Dichloropropene	2500	2300		1	94	70-130	07/08/2021 1243
Ethylbenzene	2500	2500		1	99	70-130	07/08/2021 1243
2-Hexanone	5000	4400		1	87	70-130	07/08/2021 1243
Isopropylbenzene	2500	2600		1	103	70-130	07/08/2021 1243
Methyl acetate	2500	2500		1	101	70-130	07/08/2021 1243
Methyl tertiary butyl ether (MTBE)	2500	2500		1	100	70-130	07/08/2021 1243
4-Methyl-2-pentanone	5000	4500		1	89	70-130	07/08/2021 1243
Methylcyclohexane	2500	3100		1	122	70-130	07/08/2021 1243
Methylene chloride	2500	2400		1	96	70-130	07/08/2021 1243
Styrene	2500	2300		1	93	70-130	07/08/2021 1243
1,1,2,2-Tetrachloroethane	2500	2200		1	90	70-130	07/08/2021 1243
Tetrachloroethene	2500	2500		1	101	70-130	07/08/2021 1243
Toluene	2500	2400		1	97	70-130	07/08/2021 1243
1,1,2-Trichloro-1,2,2-Trifluoroethane	2500	2900		1	117	70-130	07/08/2021 1243
1,2,4-Trichlorobenzene	2500	2500		1	99	70-130	07/08/2021 1243
1,1,1-Trichloroethane	2500	2800		1	112	70-130	07/08/2021 1243
1,1,2-Trichloroethane	2500	2300		1	92	70-130	07/08/2021 1243

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98261-002
Batch: 98261
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035 High

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	2500	2500		1	100	70-130	07/08/2021 1243
Trichlorofluoromethane	2500	3100		1	123	70-130	07/08/2021 1243
Vinyl chloride	2500	2700		1	108	70-130	07/08/2021 1243
Xylenes (total)	5000	4900		1	97	70-130	07/08/2021 1243

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	47-138
1,2-Dichloroethane-d4		106	53-142
Toluene-d8		99	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98336-001
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/08/2021 2311
Benzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromoform	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/08/2021 2311
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/08/2021 2311
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chloroethane	ND		1	2.0	0.40	ug/L	07/08/2021 2311
Chloroform	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/08/2021 2311
Cyclohexane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/08/2021 2311
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
2-Hexanone	ND		1	10	2.0	ug/L	07/08/2021 2311
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Methyl acetate	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/08/2021 2311
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/08/2021 2311
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/08/2021 2311
Methylene chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Styrene	ND		1	1.0	0.41	ug/L	07/08/2021 2311
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Toluene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/08/2021 2311
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98336-001
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/08/2021 2311
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/08/2021 2311

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		97	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98336-002
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	69		1	69	60-140	07/08/2021 2014
Benzene	50	48		1	96	70-130	07/08/2021 2014
Bromodichloromethane	50	49		1	97	70-130	07/08/2021 2014
Bromoform	50	51		1	102	70-130	07/08/2021 2014
Bromomethane (Methyl bromide)	50	52		1	103	70-130	07/08/2021 2014
2-Butanone (MEK)	100	91		1	91	70-130	07/08/2021 2014
Carbon disulfide	50	43		1	87	70-130	07/08/2021 2014
Carbon tetrachloride	50	45		1	90	70-130	07/08/2021 2014
Chlorobenzene	50	47		1	93	70-130	07/08/2021 2014
Chloroethane	50	53		1	107	70-130	07/08/2021 2014
Chloroform	50	49		1	99	70-130	07/08/2021 2014
Chloromethane (Methyl chloride)	50	60		1	120	60-140	07/08/2021 2014
Cyclohexane	50	44		1	87	70-130	07/08/2021 2014
1,2-Dibromo-3-chloropropane (DBCP)	50	54		1	109	70-130	07/08/2021 2014
Dibromochloromethane	50	49		1	98	70-130	07/08/2021 2014
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	07/08/2021 2014
1,2-Dichlorobenzene	50	50		1	99	70-130	07/08/2021 2014
1,3-Dichlorobenzene	50	47		1	95	70-130	07/08/2021 2014
1,4-Dichlorobenzene	50	47		1	93	70-130	07/08/2021 2014
Dichlorodifluoromethane	50	64		1	128	60-140	07/08/2021 2014
1,1-Dichloroethane	50	48		1	97	70-130	07/08/2021 2014
1,2-Dichloroethane	50	50		1	101	70-130	07/08/2021 2014
1,1-Dichloroethene	50	44		1	88	70-130	07/08/2021 2014
cis-1,2-Dichloroethene	50	48		1	95	70-130	07/08/2021 2014
trans-1,2-Dichloroethene	50	46		1	93	70-130	07/08/2021 2014
1,2-Dichloropropane	50	49		1	99	70-130	07/08/2021 2014
cis-1,3-Dichloropropene	50	51		1	102	70-130	07/08/2021 2014
trans-1,3-Dichloropropene	50	50		1	100	70-130	07/08/2021 2014
Ethylbenzene	50	46		1	92	70-130	07/08/2021 2014
2-Hexanone	100	92		1	92	70-130	07/08/2021 2014
Isopropylbenzene	50	48		1	97	70-130	07/08/2021 2014
Methyl acetate	50	62		1	124	70-130	07/08/2021 2014
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	07/08/2021 2014
4-Methyl-2-pentanone	100	120		1	118	70-130	07/08/2021 2014
Methylcyclohexane	50	43		1	86	70-130	07/08/2021 2014
Methylene chloride	50	47		1	93	70-130	07/08/2021 2014
Styrene	50	51		1	102	70-130	07/08/2021 2014
1,1,2,2-Tetrachloroethane	50	53		1	107	70-130	07/08/2021 2014
Tetrachloroethene	50	44		1	88	70-130	07/08/2021 2014
Toluene	50	46		1	92	70-130	07/08/2021 2014
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	43		1	87	70-130	07/08/2021 2014
1,2,4-Trichlorobenzene	50	54		1	107	70-130	07/08/2021 2014
1,1,1-Trichloroethane	50	46		1	93	70-130	07/08/2021 2014
1,1,2-Trichloroethane	50	49		1	99	70-130	07/08/2021 2014

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98336-002
Batch: 98336
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	45		1	90	70-130	07/08/2021 2014
Trichlorofluoromethane	50	44		1	88	70-130	07/08/2021 2014
Vinyl chloride	50	56		1	111	70-130	07/08/2021 2014
Xylenes (total)	100	97		1	97	70-130	07/08/2021 2014

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		88	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98390-001
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/09/2021 1004
Benzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromoform	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/09/2021 1004
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/09/2021 1004
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chloroethane	ND		1	2.0	0.40	ug/L	07/09/2021 1004
Chloroform	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/09/2021 1004
Cyclohexane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/09/2021 1004
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
2-Hexanone	ND		1	10	2.0	ug/L	07/09/2021 1004
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Methyl acetate	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/09/2021 1004
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/09/2021 1004
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/09/2021 1004
Methylene chloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Styrene	ND		1	1.0	0.41	ug/L	07/09/2021 1004
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Toluene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/09/2021 1004
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98390-001
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/09/2021 1004
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/09/2021 1004

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		107	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98390-002
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	95		1	95	60-140	07/09/2021 0829
Benzene	50	52		1	104	70-130	07/09/2021 0829
Bromodichloromethane	50	54		1	108	70-130	07/09/2021 0829
Bromoform	50	50		1	100	70-130	07/09/2021 0829
Bromomethane (Methyl bromide)	50	56		1	112	70-130	07/09/2021 0829
2-Butanone (MEK)	100	110		1	106	70-130	07/09/2021 0829
Carbon disulfide	50	61		1	121	70-130	07/09/2021 0829
Carbon tetrachloride	50	54		1	108	70-130	07/09/2021 0829
Chlorobenzene	50	50		1	101	70-130	07/09/2021 0829
Chloroethane	50	56		1	112	70-130	07/09/2021 0829
Chloroform	50	53		1	106	70-130	07/09/2021 0829
Chloromethane (Methyl chloride)	50	60		1	120	60-140	07/09/2021 0829
Cyclohexane	50	57		1	113	70-130	07/09/2021 0829
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	91	70-130	07/09/2021 0829
Dibromochloromethane	50	55		1	111	70-130	07/09/2021 0829
1,2-Dibromoethane (EDB)	50	53		1	106	70-130	07/09/2021 0829
1,2-Dichlorobenzene	50	50		1	99	70-130	07/09/2021 0829
1,3-Dichlorobenzene	50	51		1	102	70-130	07/09/2021 0829
1,4-Dichlorobenzene	50	50		1	99	70-130	07/09/2021 0829
Dichlorodifluoromethane	50	56		1	113	60-140	07/09/2021 0829
1,1-Dichloroethane	50	54		1	108	70-130	07/09/2021 0829
1,2-Dichloroethane	50	53		1	106	70-130	07/09/2021 0829
1,1-Dichloroethene	50	52		1	104	70-130	07/09/2021 0829
cis-1,2-Dichloroethene	50	53		1	106	70-130	07/09/2021 0829
trans-1,2-Dichloroethene	50	55		1	109	70-130	07/09/2021 0829
1,2-Dichloropropane	50	53		1	106	70-130	07/09/2021 0829
cis-1,3-Dichloropropene	50	55		1	111	70-130	07/09/2021 0829
trans-1,3-Dichloropropene	50	57		1	114	70-130	07/09/2021 0829
Ethylbenzene	50	51		1	102	70-130	07/09/2021 0829
2-Hexanone	100	120		1	123	70-130	07/09/2021 0829
Isopropylbenzene	50	51		1	103	70-130	07/09/2021 0829
Methyl acetate	50	62		1	123	70-130	07/09/2021 0829
Methyl tertiary butyl ether (MTBE)	50	55		1	111	70-130	07/09/2021 0829
4-Methyl-2-pentanone	100	120		1	120	70-130	07/09/2021 0829
Methylcyclohexane	50	51		1	103	70-130	07/09/2021 0829
Methylene chloride	50	53		1	106	70-130	07/09/2021 0829
Styrene	50	54		1	108	70-130	07/09/2021 0829
1,1,2,2-Tetrachloroethane	50	54		1	108	70-130	07/09/2021 0829
Tetrachloroethene	50	49		1	99	70-130	07/09/2021 0829
Toluene	50	52		1	104	70-130	07/09/2021 0829
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	105	70-130	07/09/2021 0829
1,2,4-Trichlorobenzene	50	45		1	90	70-130	07/09/2021 0829
1,1,1-Trichloroethane	50	54		1	108	70-130	07/09/2021 0829
1,1,2-Trichloroethane	50	52		1	104	70-130	07/09/2021 0829

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98390-002
Batch: 98390
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	49		1	98	70-130	07/09/2021 0829
Trichlorofluoromethane	50	55		1	110	70-130	07/09/2021 0829
Vinyl chloride	50	57		1	114	70-130	07/09/2021 0829
Xylenes (total)	100	100		1	104	70-130	07/09/2021 0829

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		102	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98830-001
Batch: 98830
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	5.0	ug/L	07/14/2021 1054
Benzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Bromodichloromethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Bromoform	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Bromomethane (Methyl bromide)	ND		1	2.0	0.40	ug/L	07/14/2021 1054
2-Butanone (MEK)	ND		1	10	2.0	ug/L	07/14/2021 1054
Carbon disulfide	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Carbon tetrachloride	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Chlorobenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Chloroethane	ND		1	2.0	0.40	ug/L	07/14/2021 1054
Chloroform	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Chloromethane (Methyl chloride)	ND		1	1.0	0.50	ug/L	07/14/2021 1054
Cyclohexane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Dibromochloromethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,2-Dibromoethane (EDB)	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,2-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,3-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,4-Dichlorobenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Dichlorodifluoromethane	ND		1	2.0	0.60	ug/L	07/14/2021 1054
1,1-Dichloroethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,1-Dichloroethene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
cis-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
trans-1,2-Dichloroethene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,2-Dichloropropane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
cis-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
trans-1,3-Dichloropropene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Ethylbenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
2-Hexanone	ND		1	10	2.0	ug/L	07/14/2021 1054
Isopropylbenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Methyl acetate	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	07/14/2021 1054
4-Methyl-2-pentanone	ND		1	10	2.0	ug/L	07/14/2021 1054
Methylcyclohexane	ND		1	5.0	0.40	ug/L	07/14/2021 1054
Methylene chloride	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Styrene	ND		1	1.0	0.41	ug/L	07/14/2021 1054
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Tetrachloroethene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Toluene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	1.0	0.42	ug/L	07/14/2021 1054
1,2,4-Trichlorobenzene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,1,1-Trichloroethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
1,1,2-Trichloroethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ98830-001
Batch: 98830
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Trichlorofluoromethane	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Vinyl chloride	ND		1	1.0	0.40	ug/L	07/14/2021 1054
Xylenes (total)	ND		1	1.0	0.40	ug/L	07/14/2021 1054

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		106	70-130

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98830-002
Batch: 98830
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	72		1	72	60-140	07/14/2021 0919
Benzene	50	49		1	98	70-130	07/14/2021 0919
Bromodichloromethane	50	51		1	102	70-130	07/14/2021 0919
Bromoform	50	47		1	95	70-130	07/14/2021 0919
Bromomethane (Methyl bromide)	50	53		1	106	70-130	07/14/2021 0919
2-Butanone (MEK)	100	90		1	90	70-130	07/14/2021 0919
Carbon disulfide	50	57		1	113	70-130	07/14/2021 0919
Carbon tetrachloride	50	50		1	100	70-130	07/14/2021 0919
Chlorobenzene	50	47		1	94	70-130	07/14/2021 0919
Chloroethane	50	54		1	108	70-130	07/14/2021 0919
Chloroform	50	49		1	99	70-130	07/14/2021 0919
Chloromethane (Methyl chloride)	50	54		1	109	60-140	07/14/2021 0919
Cyclohexane	50	52		1	105	70-130	07/14/2021 0919
1,2-Dibromo-3-chloropropane (DBCP)	50	44		1	89	70-130	07/14/2021 0919
Dibromochloromethane	50	51		1	103	70-130	07/14/2021 0919
1,2-Dibromoethane (EDB)	50	49		1	98	70-130	07/14/2021 0919
1,2-Dichlorobenzene	50	47		1	94	70-130	07/14/2021 0919
1,3-Dichlorobenzene	50	48		1	96	70-130	07/14/2021 0919
1,4-Dichlorobenzene	50	47		1	93	70-130	07/14/2021 0919
Dichlorodifluoromethane	50	49		1	97	60-140	07/14/2021 0919
1,1-Dichloroethane	50	51		1	101	70-130	07/14/2021 0919
1,2-Dichloroethane	50	49		1	99	70-130	07/14/2021 0919
1,1-Dichloroethene	50	49		1	97	70-130	07/14/2021 0919
cis-1,2-Dichloroethene	50	50		1	99	70-130	07/14/2021 0919
trans-1,2-Dichloroethene	50	51		1	102	70-130	07/14/2021 0919
1,2-Dichloropropane	50	50		1	99	70-130	07/14/2021 0919
cis-1,3-Dichloropropene	50	52		1	104	70-130	07/14/2021 0919
trans-1,3-Dichloropropene	50	53		1	106	70-130	07/14/2021 0919
Ethylbenzene	50	48		1	96	70-130	07/14/2021 0919
2-Hexanone	100	110		1	113	70-130	07/14/2021 0919
Isopropylbenzene	50	48		1	97	70-130	07/14/2021 0919
Methyl acetate	50	59		1	117	70-130	07/14/2021 0919
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	07/14/2021 0919
4-Methyl-2-pentanone	100	120		1	117	70-130	07/14/2021 0919
Methylcyclohexane	50	47		1	95	70-130	07/14/2021 0919
Methylene chloride	50	50		1	99	70-130	07/14/2021 0919
Styrene	50	50		1	101	70-130	07/14/2021 0919
1,1,2,2-Tetrachloroethane	50	50		1	100	70-130	07/14/2021 0919
Tetrachloroethene	50	46		1	93	70-130	07/14/2021 0919
Toluene	50	48		1	96	70-130	07/14/2021 0919
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	96	70-130	07/14/2021 0919
1,2,4-Trichlorobenzene	50	42		1	85	70-130	07/14/2021 0919
1,1,1-Trichloroethane	50	51		1	102	70-130	07/14/2021 0919
1,1,2-Trichloroethane	50	49		1	98	70-130	07/14/2021 0919

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ98830-002
Batch: 98830
Analytical Method: 8260D

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	46		1	92	70-130	07/14/2021 0919
Trichlorofluoromethane	50	53		1	106	70-130	07/14/2021 0919
Vinyl chloride	50	52		1	105	70-130	07/14/2021 0919
Xylenes (total)	100	97		1	97	70-130	07/14/2021 0919

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		100	70-130

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - MB

Sample ID: WQ98028-001
Batch: 98028
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Ethane	ND		1	10	2.5	ug/L	07/07/2021 0855
Ethene	ND		1	10	2.5	ug/L	07/07/2021 0855
Methane	ND		1	10	2.5	ug/L	07/07/2021 0855
Propane	ND		1	15	5.0	ug/L	07/07/2021 0855

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Dissolved Gases - LCS

Sample ID: WQ98028-002
Batch: 98028
Analytical Method: RSK - 175
Matrix: Aqueous

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Ethane	550	610		1	110	70-130	07/07/2021 0841
Ethene	520	570		1	110	70-130	07/07/2021 0841
Methane	300	320		1	108	70-130	07/07/2021 0841
Propane	810	890		1	109	70-130	07/07/2021 0841

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 122757

Client: EARTHCON CONSULTANTS, INC.	Report to Contact: Mary Ann Brookshire	Telephone No. / E-mail: mbrookshire@earthcon.com	Quote No.
Address: 1660 West Oak Parkway Ste 106	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page ____ of ____
City: Marietta State: GA Zip Code: 30062	Printed Name		
Project Name: Cemex International			WF26011 I.D.
Project No.: 02.20160378.21	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	Ascorbic Acid	Zinc Acetate	VOC	1,4 DIOXANE	Dissolved Inorganics	Remarks / Cooler I.D.
DP-08-20-GW	6-25-21	10:45	G	X						8				X	X	X	
DP-10 (1-3)-SS	6-25-21	12:20	G		X							X		X			
DP-10 (10-11)-SS	6-25-21	12:30	G		X							X		X	X	X	
DP-04 20-GW	6-25-21	11:50	G	X						8				X	X	X	
DP-05 (1-3)-SS	6-25-21	13:15	G		X									X			
DP-05 (10-11)-SS	6-25-21	13:30	G		X									X			
DP-10-20-GW	6-25-21	12:45	G	X						8				X	X	X	
DP-07 (1-3)-SS	6-25-21	15:00	G		X									X			
DP-07 (10-11)-SS	6-25-21	15:10	G		X									X			
DP-05-20-GW	6-25-21	14:10	G	X						8				X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time
1. Relinquished by	6-25-21	1906
2. Relinquished by		
3. Relinquished by		
4. Relinquished by		

	Date	Time
1. Received by		
2. Received by		
3. Received by		
4. Laboratory received by	6/25/21	1906

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack
Receipt Temp. 1.4 | 1.3 °C
Temp Blank ☒ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

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Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 122797

Client: Ethical Consultants	Report to Contact: Mary Ann Brookshire	Telephone No. / E-mail: Mbrookshire@earthlink.com	Quote No.
Address: 1600 West Oak Parkway Ste 106	Sampler's Signature: Tiffany Hester	Analysis (Attach list if more space is needed)	Page ____ of ____
City: Marietta State: GA Zip Code: 30062	Printed Name: Tiffany Hester		Lot # Bar Code: WF26011
Project Name: Lennox International			
Project No.: 01.2010375.21	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Include in Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	Soils Jar	Field Filtered	VOC	VOC 1,4 DSIM	Diesel Vod organics	Remarks / Grabs I.D.
DP-09 (1-3')-SS	6.25.21	15:40			X							X		X			
DRP-02-SO	6.25.21	—			X							X		X			
DP-09 (10-11)-SS	6.25.21	15:45			X							X		X			
DP-07-20-21-GW	6.25.21	15:20		X						9				X	X	X	
DP-11 (10-11)-SS	6.25.21	16:50			X							X		X			
DP-11 (20-21)-SS	6.25.21	17:15			X							X		X			
DP-09 (20-21) GW	6.25.21	14:00		X	X					(9)		X		X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☑ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

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

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	6.25.21	1906	1. Received by		
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	6/25/21	Time 1906

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack — Receipt Temp. 10.3 °C — Temp Blank ☐ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MF0030-01

PACE ANALYTICAL SERVICES, LLC

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: JSH / 06/26/21 Lot #: WF26011

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other:			
☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA 1.6 / 1.6 °C 1.2 / 1.3 °C NA / NA °C NA / NA °C Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None			
☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☐ Yes	☐ No	☑ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
~~☐ Yes~~	~~☑ No~~	DSR/6/26	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☑ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: JSH/JRG2 Date: 06/26/21

Comments: Missing 1 WF26011-802

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Tiffany Messier

Project Name: Lennox International

Project Number: 02.20160378.21

Lot Number:**WF29028**

Date Completed:07/07/2021

07/09/2021 2:48 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.

Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
106 Vantage Point Drive West Columbia, SC 29172
Tel: 803-791-9700 Fax: 803-791-9111 www.pacelabs.com

Case Narrative
EarthCon Consultants, Inc.
Lot Number: WF29028

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary

EarthCon Consultants, Inc.

Lot Number: WF29028

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	DP-10 (10-11)-SS	Solid	06/25/2021 1230	06/29/2021

(1 sample)

Detection Summary

EarthCon Consultants, Inc.

Lot Number: WF29028

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	DP-10 (10-11)-SS	Solid	1,1-Dichloroethene	8260D	53		ug/kg	6

(1 detection)

Client: EarthCon Consultants, Inc.
Description: DP-10 (10-11)-SS
Date Sampled: 06/25/2021 1230
Date Received: 06/29/2021

Laboratory ID: WF29028-001
Matrix: Solid
% Solids: 84.6 06/30/2021 2251

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/06/2021 1259	JM1		97945	5.61

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Acetone	67-64-1	8260D	ND		21	8.4	ug/kg	1
Benzene	71-43-2	8260D	ND		5.3	2.1	ug/kg	1
Bromodichloromethane	75-27-4	8260D	ND		5.3	2.1	ug/kg	1
Bromoform	75-25-2	8260D	ND		5.3	2.1	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.3	3.2	ug/kg	1
2-Butanone (MEK)	78-93-3	8260D	ND		21	4.2	ug/kg	1
Carbon disulfide	75-15-0	8260D	ND		5.3	2.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260D	ND		5.3	2.1	ug/kg	1
Chlorobenzene	108-90-7	8260D	ND		5.3	2.1	ug/kg	1
Chloroethane	75-00-3	8260D	ND		5.3	2.1	ug/kg	1
Chloroform	67-66-3	8260D	ND		5.3	2.1	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.3	3.2	ug/kg	1
Cyclohexane	110-82-7	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.3	2.1	ug/kg	1
Dibromochloromethane	124-48-1	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.3	2.1	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.3	2.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.3	2.1	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.3	3.2	ug/kg	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.3	2.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	53		5.3	2.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.3	2.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.3	2.1	ug/kg	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.3	2.1	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.3	2.1	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.3	2.1	ug/kg	1
Ethylbenzene	100-41-4	8260D	ND		5.3	2.1	ug/kg	1
2-Hexanone	591-78-6	8260D	ND		11	4.2	ug/kg	1
Isopropylbenzene	98-82-8	8260D	ND		5.3	2.1	ug/kg	1
Methyl acetate	79-20-9	8260D	ND		5.3	2.1	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.3	2.1	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		11	4.2	ug/kg	1
Methylcyclohexane	108-87-2	8260D	ND		5.3	2.1	ug/kg	1
Methylene chloride	75-09-2	8260D	ND		5.3	2.1	ug/kg	1
Styrene	100-42-5	8260D	ND		5.3	2.1	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.3	2.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.3	2.1	ug/kg	1
Toluene	108-88-3	8260D	ND		5.3	2.1	ug/kg	1

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Client: EarthCon Consultants, Inc.
Description: DP-10 (10-11)-SS
Date Sampled: 06/25/2021 1230
Date Received: 06/29/2021

Laboratory ID: WF29028-001
Matrix: Solid
% Solids: 84.6 06/30/2021 2251

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	07/06/2021 1259	JM1		97945	5.61

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.3	2.1	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.3	2.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.3	2.1	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.3	2.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.3	2.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.3	2.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.3	3.2	ug/kg	1
Xylenes (total)	1330-20-7	8260D	ND		11	4.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		110	47-138
1,2-Dichloroethane-d4		102	53-142
Toluene-d8		110	68-124

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97945-001
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Acetone	ND		1	20	8.0	ug/kg	07/06/2021 1017
Benzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromodichloromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromoform	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Bromomethane (Methyl bromide)	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
2-Butanone (MEK)	ND		1	20	4.0	ug/kg	07/06/2021 1017
Carbon disulfide	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Carbon tetrachloride	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloroform	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Chloromethane (Methyl chloride)	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
Cyclohexane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Dibromochloromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dibromoethane (EDB)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,3-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,4-Dichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Dichlorodifluoromethane	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
1,1-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
cis-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
trans-1,2-Dichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2-Dichloropropane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
cis-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
trans-1,3-Dichloropropene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Ethylbenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
2-Hexanone	ND		1	10	4.0	ug/kg	07/06/2021 1017
Isopropylbenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methyl acetate	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
4-Methyl-2-pentanone	ND		1	10	4.0	ug/kg	07/06/2021 1017
Methylcyclohexane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Methylene chloride	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Styrene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2,2-Tetrachloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Tetrachloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Toluene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,2,4-Trichlorobenzene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,1-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
1,1,2-Trichloroethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ97945-001
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Trichloroethene	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Trichlorofluoromethane	ND		1	5.0	2.0	ug/kg	07/06/2021 1017
Vinyl chloride	ND		1	5.0	3.0	ug/kg	07/06/2021 1017
Xylenes (total)	ND		1	10	4.0	ug/kg	07/06/2021 1017

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		112	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97945-002
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	120		1	117	60-140	07/06/2021 0953
Benzene	50	46		1	93	70-130	07/06/2021 0953
Bromodichloromethane	50	48		1	95	70-130	07/06/2021 0953
Bromoform	50	51		1	103	70-130	07/06/2021 0953
Bromomethane (Methyl bromide)	50	42		1	85	70-130	07/06/2021 0953
2-Butanone (MEK)	100	100		1	100	60-140	07/06/2021 0953
Carbon disulfide	50	45		1	90	70-130	07/06/2021 0953
Carbon tetrachloride	50	47		1	94	70-130	07/06/2021 0953
Chlorobenzene	50	49		1	97	70-130	07/06/2021 0953
Chloroethane	50	48		1	96	70-130	07/06/2021 0953
Chloroform	50	44		1	88	70-130	07/06/2021 0953
Chloromethane (Methyl chloride)	50	45		1	91	60-140	07/06/2021 0953
Cyclohexane	50	44		1	88	70-130	07/06/2021 0953
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	97	70-130	07/06/2021 0953
Dibromochloromethane	50	49		1	98	70-130	07/06/2021 0953
1,2-Dibromoethane (EDB)	50	49		1	98	70-130	07/06/2021 0953
1,2-Dichlorobenzene	50	48		1	96	70-130	07/06/2021 0953
1,3-Dichlorobenzene	50	49		1	98	70-130	07/06/2021 0953
1,4-Dichlorobenzene	50	48		1	97	70-130	07/06/2021 0953
Dichlorodifluoromethane	50	49		1	98	60-140	07/06/2021 0953
1,1-Dichloroethane	50	44		1	87	70-130	07/06/2021 0953
1,2-Dichloroethane	50	45		1	90	70-130	07/06/2021 0953
1,1-Dichloroethene	50	45		1	89	70-130	07/06/2021 0953
cis-1,2-Dichloroethene	50	44		1	87	70-130	07/06/2021 0953
trans-1,2-Dichloroethene	50	44		1	88	70-130	07/06/2021 0953
1,2-Dichloropropane	50	46		1	91	70-130	07/06/2021 0953
cis-1,3-Dichloropropene	50	45		1	91	70-130	07/06/2021 0953
trans-1,3-Dichloropropene	50	48		1	96	70-130	07/06/2021 0953
Ethylbenzene	50	49		1	98	70-130	07/06/2021 0953
2-Hexanone	100	100		1	102	70-130	07/06/2021 0953
Isopropylbenzene	50	49		1	99	70-130	07/06/2021 0953
Methyl acetate	50	44		1	88	70-130	07/06/2021 0953
Methyl tertiary butyl ether (MTBE)	50	42		1	84	70-130	07/06/2021 0953
4-Methyl-2-pentanone	100	90		1	90	70-130	07/06/2021 0953
Methylcyclohexane	50	45		1	90	70-130	07/06/2021 0953
Methylene chloride	50	42		1	84	70-130	07/06/2021 0953
Styrene	50	49		1	97	70-130	07/06/2021 0953
1,1,2,2-Tetrachloroethane	50	46		1	92	70-130	07/06/2021 0953
Tetrachloroethene	50	49		1	98	70-130	07/06/2021 0953
Toluene	50	46		1	92	70-130	07/06/2021 0953
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	44		1	87	70-130	07/06/2021 0953
1,2,4-Trichlorobenzene	50	47		1	93	70-130	07/06/2021 0953
1,1,1-Trichloroethane	50	47		1	94	70-130	07/06/2021 0953
1,1,2-Trichloroethane	50	48		1	95	70-130	07/06/2021 0953

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ97945-002
Batch: 97945
Analytical Method: 8260D

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichloroethene	50	51		1	102	70-130	07/06/2021 0953
Trichlorofluoromethane	50	51		1	101	70-130	07/06/2021 0953
Vinyl chloride	50	51		1	103	70-130	07/06/2021 0953
Xylenes (total)	100	98		1	98	70-130	07/06/2021 0953

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		106	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		98	68-124

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 122757

Client: Arcadis	Report to Contact: Holly Ann Brookshire	Telephone No. / E-mail: [illegible]	Quote No.
Address: 1600 West Peachtree St. NW	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page ___ of ___
City: Charlotte	State: NC	Zip Code: 28202	Printed Name:
Project Name: Comer International			
Project No.: 30146278.021	P.O. No.		

WF29028
LJD

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab (G) / Composite (C)	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Other	VOC	1,4 D SIM	Dissolved Inorganics	Remarks / Cooler I.D.
DP-02-20-GW	6-25-21	10:45	G	X						6				X	X	X	
DP-10 (1-3)-SS	6-25-21	12:10	G		X							X		X			
DP-10 (10-11)-SS	6-25-21	12:30	G		X							X		X	X	X	
DP-04 20-GW	6-25-21	11:40	G	X						6				X	X	X	
DP-05 (1-3)-SS	6-25-21	13:15	G		X									X			
DP-05 (10-11)-SS	6-25-21	13:30	G		X									X			
DP-10-20-GW	6-25-21	12:45	G	X						6				X	X	X	
DP-07 (1-3)-SS	6-25-21	15:00	G		X									X			
DP-07 (10-11)-SS	6-25-21	15:10	G		X									X			
DP-09-20-GW	6-25-21	14:10	G	X						6				X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	6-25-21	1906	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by: FedEx	6/29/21	1245	3. Received by	6/29/21	1245
4. Relinquished by			4. Laboratory received by	6/30/21	1906

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp: 2.3 °C — Temp Blank: ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEC05N2-01

Pace Analytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: KDRW / 06/29/2021 Lot #: WF29028

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 21-238

2.3 / 2.3 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		13. Was adequate sample volume available?
☑ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes	☐ No	☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA.
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA.

SR barcode labels applied by: KDRW Date: 06/29/2021

Comments:

Appendix D

Natural Oxidant Demand Test Results

Klozur® Persulfate Demand Test and Base Buffering Capacity test

Client:
Earthcon Consultants
1880 West Oak Parkway St. 106
Marietta, Georgia 30062
Contact Person: Mary Ann Brookshire
Phone: 770-973-2100
Email: mbrookeshire@earthcon.com

Performing Lab:
PeroxyChem Environmental Solutions USA
Tonawanda, New York, 14150

Date **July 9, 2021**

I. Background

Klozur® activated persulfate is a strong oxidant capable of mineralizing a wide range of contaminants, including chlorinated solvents, petroleum hydrocarbons, polyaromatic hydrocarbons, gasoline additives, pesticides, and many others. Activation of the persulfate anion generates the sulfate radical, the primary species that drives the rapid destruction of the contaminants of concern. Activation can be accomplished by several methods[1]: heat, transition metals, addition of hydrogen peroxide, or utilizing high pH. Choice of the activation method will depend on the contaminant of concern and site characteristics.

A chemical oxidant is not specific as to what it will oxidize. As a result, activated persulfate will not only mineralize the contaminant of concern, but a portion of the oxidant will be used in oxidizing soil organics, reduced metals, and organic species that are not of concern. In addition, activated persulfate will undergo auto-decomposition, which will be a function of temperature, concentration and activation method. The demand upon the activated persulfate from all of these components is captured in a coarse screening test termed, “Klozur Demand Test”. It is dependent upon the site characteristics, such as the organic content of the soil, the mineral loading, and soil type and collectively must be considered for estimating the magnitude of oxidant dosing during field application.

[1] PeroxyChem is the owner of licensee under various patents relating to the use of activation chemistries

The Klozur® Persulfate KDT test measures the loss of persulfate in the presence of soil, groundwater and activator over a period of 48 and 168 hours. The resulting KDT values can then be used as a guide to develop appropriate persulfate dosing for subsequent treatability testing and field applications.

When high pH is chosen as a means of activation, a Base Buffering Capacity (BBC) test is recommended. The goal of a BBC test is to determine the amount of sodium hydroxide (NaOH) needed to raise the pH of a soil to pH 10.5, which is necessary for Klozur persulfate activation. This report contains the results and observations from both a KDT and BBC test.

II. Sample Handling

Client Sample Identification

Site Identification: Lennox International
Soil ID: MW-3
GW ID: MW-3

Site Identification: Lennox International
Soil ID: MW-15
GW ID: MW-15

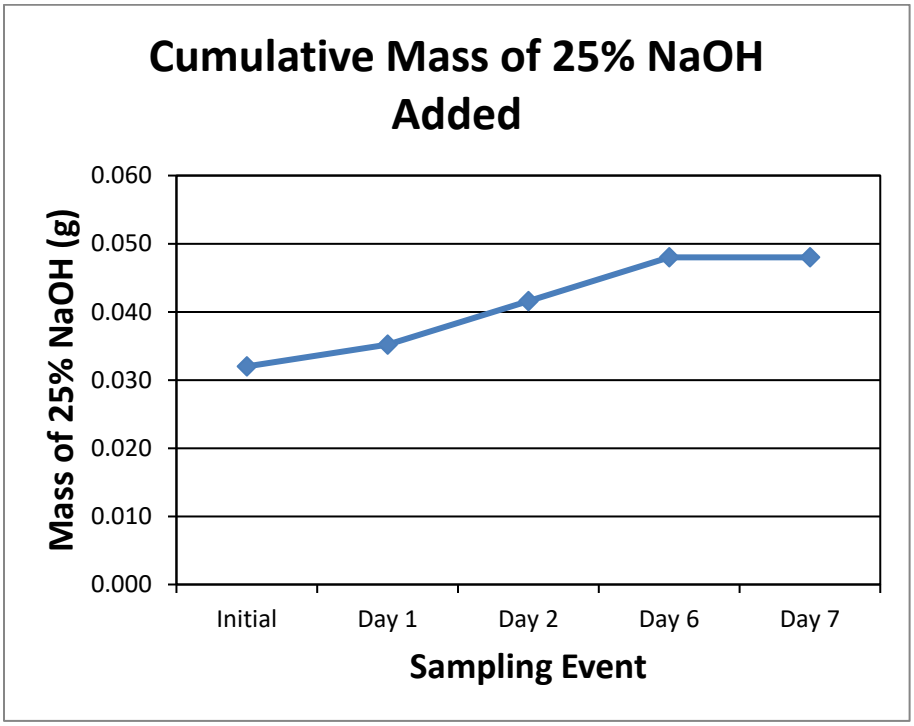
Handling Procedures

- The samples were received on June 29, 2021. Each soil was transferred into a stainless steel bowl and mixed well. MW-3 soil was a moist tan sand with no odor. The ground water had a sulfur and GRO odor. The MW-15 soil was a moist tan clay / sand with no odor. The groundwater was clear with no odor.
- The remaining soil was put into its original container and stored at ambient lab temperature.
- On June 30, 2021 the tubes were prepared according to the PeroxyChem Tonawanda KDT protocol using the provided soil and groundwater. Additional tubes were prepared according to the PeroxyChem Tonawanda BBC protocol using the provided soil and groundwater.
- The experimental samples were stored at room temperature and each sample was inverted several times once per day.
- The unused soil will be disposed of responsibly after about one month.

III. Results

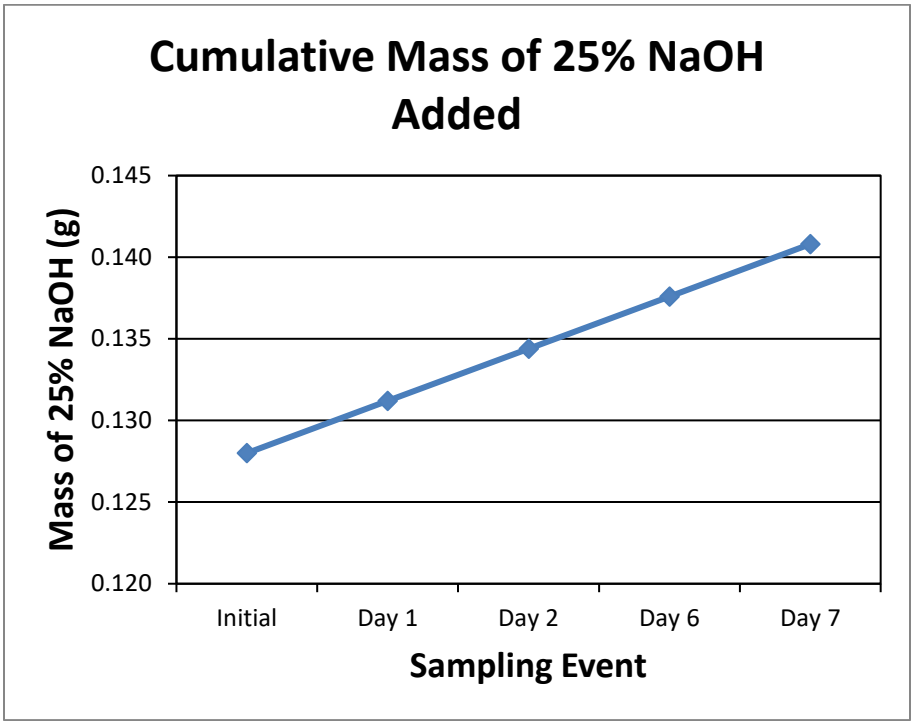
Sample ID	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	Klozur Consumption (g persulfate / kg dry soil)	
						t=48hr	t=168 hr
Soil: MW-3 GW: MW-3	High pH 25% NaOH	10	30	15	12.26	5.57	5.11

Sample ID	pH	Initial Dosing	7 days	Total mass of 25% NaOH added over 7 days (g)	BBC (g 25% NaOH / kg dry soil)
Soil: MW-3 GW: MW-3	**Initial pH**	4.77	10.51	0.048	1.90
	Final pH	11.13	10.51		



Sample ID	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	Klozur Consumption (g persulfate / kg dry soil)	
						t=48hr	t=168 hr
Soil:MW-15 GW: MW-15	High pH 25% NaOH	10	30	15	12.52	0.35	2.09

Sample ID	pH	Initial Dosing	7 days	Total mass of 25% NaOH added over 7 days (g)	BBC (g 25% NaOH / kg dry soil)
Soil: MW-15 GW: MW-15	**Initial pH**	5.68	10.25	0.141	5.59
	Final pH	10.58	10.62		



IV. Conclusions

The Klozur® Persulfate demand with high pH activation for the MW-3 sample was 5.57g persulfate / kg dry soil after 48 hours and 5.11 g persulfate / kg dry soil after 168 hours.

The BBC for the provided soil and groundwater was 1.90 g 25% NaOH / kg dry soil.

The Klozur® Persulfate demand with high pH activation for the MW-15 sample was 0.35g persulfate / kg dry soil after 48 hours and 2.09 g persulfate / kg dry soil after 168 hours.

The BBC for the provided soil and groundwater was 5.59 g 25% NaOH / kg dry soil.

V. Photos from BBC test

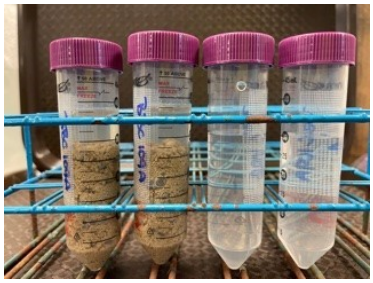


Photo 1: MW-3 soil: Day 0, before initial dosing. From left to right: Tube #1, #2, #3 and #4.

Photo 2: MW-3 Soil Day 7. From left to right: Tube #1, #2, #3 and #4.

Photo 3: MW-15 soil: Day 0, before initial dosing. From left to right: Tube #1, #2, #3 and #4.

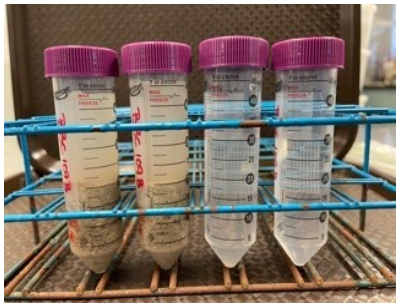


Photo 4: MW-15 soil: Day 7 left to right: Tube #1, #2, #3 and #4.

VI. Authorizing Signatures

This report contains the results as determined by PeroxyChem laboratory protocol and are accurately represented herein.

Note: 1. PeroxyChem recommends performing suitable treatability testing and field pilot demonstration to determine the effectiveness of Klozur® activated persulfate on the contaminants of concern. KDT testing provides only an indication of the minimum amount of oxidant required to overcome the demands of soil, groundwater and other secondary species that contribute to the usage of the oxidant. The KDT results do not imply a guarantee of efficacy of the activated persulfate in actual field situations. 2. ANY SUCH QUANTITY OR WARRANTY IS EXPRESSLY DISCLAIMED.

Appendix E

Field Sampling Forms – June 2021

EARTHCON®

Groundwater Sampling Record

WELL No. MW-1	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/23/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar	/EarthCon
SAMPLE TIME: 12:05	SITE :	FIELD CONDITIONS/WEATHER 80°F sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: (distilled) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 6.97
Depth of Well (feet): 21.9
Water Column (feet): 14.93
Casing Volume (gallons/liters): 2.43
Calculated Purge Volume (gallons/liters): 7.30
Actual Purge Volume (gallons/liters): 0.25
Pump Intake Depth (feet): 20

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: — thickness: ____
DNAPL present: — thickness: ____
Remarks: ____
Ferrous Iron (mg/L): 0.91 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:40	0								PURGE START
11:45	0.1	23.6	5.00	2.62	106.0	94.7	25.5	7.15	cloudy
11:50	0.15	22.8	4.95	1.37	94.6	96.4	15.8	7.15	" "
11:55	0.20	22.8	4.95	1.32	93.2	92.2	9.62	7.15	" "
12:00	0.25	22.7	4.95	1.23	88.9	92.1	4.45	7.15	clear
12:05	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/21
Turbidity	HF Scientific	Micro TPW 20000	6/23/21
Peristaltic Pump	Geotech	Geopump	6/23/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	
			Ferrous Iron (mg/L) - 0.95 mg/L
			DUP-1 collected

EARTHCON®

Groundwater Sampling Record

WELL No. ~~MW-4D~~ MW-1D	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/25/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier, E. Cook	/EarthCon
SAMPLE TIME: 10:45	SITE :	FIELD CONDITIONS/WEATHER 75° F sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and ~~phosphate-free~~ soap
- potable water rinse
- water rinse: distilled (✓) deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter:
(circle one)
(2") 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 10.30
Depth of Well (feet): ~~78.75~~ 49.95
Water Column (feet): ~~68.45~~ 39.65
Casing Volume (gallons/liters): 6.46
Calculated Purge Volume (gallons/liters): 19.39
Actual Purge Volume (gallons/liters): 0.5
Pump Intake Depth (feet): 45

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: (—) thickness:
DNAPL present: (—) thickness:
Remarks:
Ferrous Iron (mg/L): 0.57 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:20	0								PURGE START
10:25	0.1	22.5	5.55	2.48	230.2	19.5	1.67	11.02	clear
10:30	0.25	22.5	5.55	2.40	230.1	19.5	1.83	11.13	" "
10:35	0.35	22.6	5.56	2.34	229.2	19.5	1.47	11.20	" "
10:40	0.50	22.6	5.56	2.31	228.3	19.5	1.42	11.21	" "
10:45	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/25/21
Turbidity	HF Scientific	Micro TPW 20000	6/25/21
~~Bladder Pump~~ Geopump → ~~QED~~ peristaltic pump	~~Well Wizard Micro Purge~~ Geotech		6/25/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-2	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6.22.21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier	/EarthCon
SAMPLE TIME: 14:35	SITE :	FIELD CONDITIONS/WEATHER Cloudy 73°	

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and ~~phosphate-free soap~~
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

- Depth to Water (feet): 3.70
- Depth of Well (feet): 14.11
- Water Column (feet): 10.41
- Casing Volume (gallons/liters): 1.69
- Calculated Purge Volume (gallons/liters): 5.0
- Actual Purge Volume (gallons/liters): 0.35
- Pump Intake Depth (feet): ~12'

- Measuring Point Elevation (feet):
- Groundwater Surface Elevation:
- LNAPL present: thickness:
- DNAPL present: thickness:
- Remarks:
- Ferrous Iron (mg/L): 0.10 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:00	0								PURGE START
14:05	0.10	25.2	4.46	1.04	388.6	50.4	0.99	3.69	Clear
14:10	0.15	25.6	4.48	1.06	389.7	61.6	1.48	3.68	" "
14:15	0.20	25.2	4.40	1.23	396.7	53.8	1.00	3.68	" "
14:20	0.25	26.0	4.40	0.24	398.6	51.3	0.41	3.68	" "
14:25	0.30	26.1	4.41	0.22	399.7	51.2	0.41	3.68	" "
14:30	0.35	26.2	4.41	0.24	401.9	51.2	0.38	3.68	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556 PRO DSS S/N 18019	6.22.21
Turbidity	~~HF Scientific~~ HANNA	~~Micro TPW 20000~~ HI98703 S/N 210011	6.22.21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-2D	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	
SAMPLE No. 4	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier /EarthCon	DATE 6-22-21
SAMPLE TIME: 13:45	SITE :	FIELD CONDITIONS/WEATHER Light Rain 78° Cloudy	

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap (X)
- potable water rinse
- water rinse: distilled (X) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.59	Measuring Point Elevation (feet):	
Depth of Well (feet):	40.97	Groundwater Surface Elevation:	
Water Column (feet):	35.38	LNAPL present:	thickness:
Casing Volume (gallons/liters):	6	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	17	Remarks:	
Actual Purge Volume (gallons/liters):	0.65		
Pump Intake Depth (feet):	~38	Ferrous Iron (mg/L):	0.11 mg/L

Well Evacuation
Water level recovery is: very slow (slow) moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:05	0								PURGE START
13:10	0.10	23.9	5.59	5.20	149.3	25.6	2.15	6.76	clear
13:15	0.15	23.8	5.62	5.01	348.6	25.7	1.93	7.22	" "
13:20	0.20	23.7	5.65	4.94	347.6	25.8	2.29	7.63	" "
13:25	0.25	23.6	5.67	4.94	347.2	25.9	2.60	8.0	" "
13:30	0.45	23.6	5.67	4.92	346.8	25.9	2.11	8.29	" "
13:35	0.55	23.6	5.56	4.67	348.7	25.6	1.80	8.80	" "
13:40	0.65	23.5	5.55	4.77	346.7	25.7	1.38	9.0	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556 PRO DSS S/N 18019	6/22/21
Turbidity	~~HF Scientific~~ HANNA	~~Micro TPW 20000~~ HI98703 S/N 21011	6/22/21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-3	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier /EarthCon	DATE 6.23.21
SAMPLE TIME: 11:00	SITE :	FIELD CONDITIONS/WEATHER P/Cloudy 79°	

Well Condition Inspection (circle one)

- cover: **locked** (circled) / not locked
- number: **legible** (circled) / not legible
- outer casing: **good** (circled) / fair / poor
- inner casing: **good** (circled) / fair / poor
- well photographed: yes / **no** (circled)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✗
- potable water rinse
- water rinse: distilled ✗ / deionized
- solvent rinse: acetone ✗ / hexane
- air dry

Casing Diameter: (circle one) **2"** (circled) 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

- Depth to Water (feet): 4.90
- Depth of Well (feet): 17.96
- Water Column (feet): 13.06
- Casing Volume (gallons/liters): 2.1
- Calculated Purge Volume (gallons/liters): 6.4
- Actual Purge Volume (gallons/liters): 0.70
- Pump Intake Depth (feet): ~15.5

- Measuring Point Elevation (feet):
- Groundwater Surface Elevation:
- LNAPL present: thickness:
- DNAPL present: thickness:
- Remarks: Strong odor
- Ferrous Iron (mg/L): 3.30 mg/L dilute 50% 3.70 mg/L

Well Evacuation
Water level recovery is: very slow (circled) / slow / moderate / fast
Bailed dry: yes / **no** (circled)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:20	0								PURGE START
10:25	0.10	22.0	4.71	0.84	75.6	193.6	0.95	5.70	clear
10:30	0.20	22.0	4.67	0.23	65.3	193.3	0.54	6.11	" "
10:35	0.30	22.1	4.66	0.09	44.4	193.8	1.01	6.71	" "
10:40	0.40	22.1	4.67	0.06	27.0	193.8	0.70	7.06	" "
10:45	0.50	22.2	4.67	0.04	1.0	195.1	1.29	7.33	" "
10:50	0.60	22.2	4.67	0.02	0.9	196.1	1.27	7.48	" "
10:55	0.70	22.1	4.67	0.03	0.8	196.1	1.37	7.63	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	~~556~~ PRODSS S/N 18019	6-23-21
Turbidity	~~HF Scientific~~ HANNA	~~Micro TPW 20000~~ HI98703 S/N 21011	6-23-21
Peristaltic Pump	Geotech	Geopump S/N -20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-3D	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 06.23.21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier /EarthCon	
SAMPLE TIME: 09:45	SITE :	FIELD CONDITIONS/WEATHER P/CLOUDY 72°	

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✓
- potable water rinse
- water rinse: distilled ✓ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 5.20
Depth of Well (feet): 28.12
Water Column (feet): 22.92
Casing Volume (gallons/liters): 3.73
Calculated Purge Volume (gallons/liters): [illegible]
Actual Purge Volume (gallons/liters): 0.55
Pump Intake Depth (feet): ~26

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.06 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
09:10	0								PURGE START
09:15	0.15	21.5	5.52	3.00	363.8	109.1	1.04	5.43	clear
09:20	0.20	21.3	4.59	3.77	382.5	91.9	1.10	5.40	" "
09:25	0.25	21.3	4.38	2.72	402.9	88.3	0.64	5.40	" "
09:30	0.35	21.1	4.37	2.74	409.3	88.1	0.59	5.40	" "
09:35	0.45	21.0	4.36	2.77	417.6	88.0	0.95	5.40	" "
09:40	0.55	21.0	4.35	2.78	418.6	87.0	0.98	5.40	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	~~556~~ PRO DSS S/N 18019	6.23.21
Turbidity	~~HF Scientific~~ HANNA	~~Micro TPW 20000~~ HI98703 S/N 210011	6.23.21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	~~NOD @ 10:15~~ TM
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-4	PROJECT # 02.20160378.00	LOCATION: Blackville, SC
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier/EarthCon
SAMPLE TIME: 09:00	SITE :	FIELD CONDITIONS/WEATHER: Sunny 76°

DATE: 6-24-21

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap ✗
- potable water rinse
- water rinse: distilled ✗ deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:___

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

- Depth to Water (feet): 7.58
- Depth of Well (feet): 20.78
- Water Column (feet): 13.2
- Casing Volume (gallons/liters): 2.15
- Calculated Purge Volume (gallons/liters): 6.5
- Actual Purge Volume (gallons/liters): 0.70
- Pump Intake Depth (feet): 18

- Measuring Point Elevation (feet):
- Groundwater Surface Elevation:
- LNAPL present: thickness:
- DNAPL present: thickness:
- Remarks:
- Ferrous Iron (mg/L): 0.25 mg/L

Well Evacuation

Water level recovery is: very slow (slow) moderate fast

Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
08:10	0								PURGE START
08:15	0.10	19.1	7.03	0.95	77.1	43.5	24.2	8.25	P/cloudy
08:20	0.20	18.8	5.47	0.47	96.0	44.0	19.8	8.54	" "
08:25	0.30	18.8	5.13	0.30	99.8	44.0	17.8	8.63	" "
08:30	0.40	18.8	4.93	0.18	104.2	42.9	15.3	—	" "
08:35	0.50	18.9	4.94	0.12	107.8	42.8	16.3	8.90	clear
08:40	0.60	18.9	4.93	0.10	110.6	42.3	10.1	8.95	clear
08:45	0.70	18.9	4.94	0.11	111.7	42.6	8.8	9.00	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	~~556~~ PRO DSS S/N 18019	6-24-21
Turbidity	~~HF Scientific~~ HANNA	~~Micro TPW 20000~~ S/N 21011	6-24-21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. ~~MW-1D~~ MW-4D	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/25/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar	/EarthCon
SAMPLE TIME: 9:20	SITE :	FIELD CONDITIONS/WEATHER 70° F Sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water ~~and phosphate~~-free soap
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter:
(circle one)
(2") 4"
6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 12.65
Depth of Well (feet): ~~40.05~~ 78.75
Water Column (feet): ~~37.3~~ 66.1
Casing Volume (gallons/liters): ~~6.08~~ 10.77
Calculated Purge Volume (gallons/liters): ~~18.24~~ 32.3
Actual Purge Volume (gallons/liters): 1
Pump Intake Depth (feet): 48

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks:
Ferrous Iron (mg/L): 0.12 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
8:50	0								PURGE START
8:55	0.2	18.4	4.76	1.20	268.7	20.0	1.72	13.9	clear
9:00	0.4	18.5	4.75	1.16	279.9	19.7	1.58	14.1	" "
9:05	0.6	18.6	4.75	1.12	290.1	19.3	1.27	14.7	" "
9:10	0.8	18.7	4.75	1.09	296.9	19.2	0.97	14.7	" "
9:15	1.0	18.7	4.75	1.09	302.5	19.2	0.83	14.9	" "
9:20	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/25/21
Turbidity	HF Scientific	Micro TPW 20000	6/25/21
Peristaltic Pump	Geotech	Geopump	6/25/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
3 1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-5	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/24/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier, E. Cook	/EarthCon
SAMPLE TIME: 15:00	SITE :	FIELD CONDITIONS/WEATHER 85°F Sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water ~~and phosphate-free~~ soap
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	6.40	Measuring Point Elevation (feet):	
Depth of Well (feet):	19.7	Groundwater Surface Elevation:	
Water Column (feet):	13.30	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	0.53	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	~~1.60~~ 1.60	Remarks:	
Actual Purge Volume (gallons/liters):	0.6		
Pump Intake Depth (feet):	18	Ferrous Iron (mg/L):	1.59 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
14:25	0								PURGE START
14:30	0.1	19.2	4.59	1.73	192.8	88.9	1.81	6.46	Clear, odor
14:35	0.2	19.1	4.56	0.71	205.4	86.5	1.87	6.43	" "
14:40	0.3	19.0	4.58	0.41	209.7	86.1	1.27	6.44	" "
14:45	0.4	19.0	4.60	0.30	210.2	86.1	1.13	6.44	" "
14:50	0.5	19.0	4.60	0.27	210.6	86.0	1.00	6.44	" "
14:55	0.6	19.0	4.61	0.27	210.7	85.9	1.07	6.44	" "
15:00	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/24/21
Turbidity	HF Scientific	Micro TPW 20000	6/24/21
Bladder Pump	QED	Well Wizard Micro Purge	6/24/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	
			DUP-2 collected

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Groundwater Sampling Record

WELL No. ~~MW-7~~ MW-6R	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/23/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier, E. Cook	/EarthCon
SAMPLE TIME: 9:45	SITE :	FIELD CONDITIONS/WEATHER 76° F Sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water ~~and~~ phosphate-free soap
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 2.02
Depth of Well (feet): ~~11.98~~ 14.3
Water Column (feet): 12.28
Casing Volume (gallons/liters): 2.0
Calculated Purge Volume (gallons/liters): 6.0
Actual Purge Volume (gallons/liters): 0.60
Pump Intake Depth (feet): 10

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks:
Ferrous Iron (mg/L): 0.17 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
9:05	0								PURGE START
9:10	0.05	19.6	5.78	2.22	190.2	38.0	~15	2.05	clear
9:15	0.10	19.4	5.59	1.29	205.8	36.2	~15	2.15	" "
9:20	0.20	19.4	5.57	1.03	201.2	35.9	~10	2.15	" "
9:25	0.30	19.5	5.51	0.62	181.2	35.2	~10	2.15	" "
9:30	0.40	19.5	5.48	0.43	173.6	35.2	~10	2.15	" "
9:35	~~0.45~~ 0.50	19.4	5.47	0.40	171.2	35.1	~10	2.15	" "
9:40	0.60	19.4	5.47	0.39	168.3	35.2	~10	2.15	" "
9:45	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/21
Turbidity	HF Scientific	Micro TPW 20000	6/23/21
Peristaltic Pump	Geotech	Geopump	6/23/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

MW-7

Groundwater Sampling Record

WELL No. MW-6R	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/22/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY:	/EarthCon
SAMPLE TIME: 12:35	SITE :	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover: locked not locked
number: legible not legible
outer casing: good fair poor
inner casing: good fair poor
well photographed: yes no

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

0.04

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 5.11
Depth of Well (feet): ~~14.3~~ 11.98
Water Column (feet): ~~9.19~~ 6.87
Casing Volume (gallons/liters): ~~A.36~~ 0.27
Calculated Purge Volume (gallons/liters): ~~1.08~~ 0.83
Actual Purge Volume (gallons/liters): 0.23
Pump Intake Depth (feet): 10

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: thickness:
DNAPL present: thickness:
Remarks:
Ferrous Iron (mg/L): 0.39 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast
Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
12:00	0								PURGE START
12:05	0.05	23.3	5.76	3.42	116.4	78.4	17.1	6.71	clear
12:10	0.10	23.2	5.76	3.71	100.7	79.8	41.3	6.55	"
12:15	0.15	23.3	5.78	4.71	99.0	76.2	48.4	6.51	" "
12:20	0.18	23.2	5.83	5.44	99.7	75.9	45.8	6.51	" "
12:25	0.20	23.2	5.86	5.88	104.1	75.5	48.6	6.52	" "
12:30	0.23	23.2	5.89	5.90	104.4	74.6	41.2	6.53	" "
12:35	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/22/21
Turbidity	HF Scientific	Micro TPW 20000	6/22/21
Peristaltic Pump	Geotech	Geopump	6/22/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

SAMPLE No. MW-8	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/22/21
	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar /EarthCon	
SAMPLE TIME: 11:00	SITE :	FIELD CONDITIONS/WEATHER 70°F cloudy	

Well Condition Inspection (circle one)				Equipment Cleaning Procedures		
cover:	(locked)	not locked		- potable water ~~and phosphate-free soap~~		
number:	(legible)	not legible		- potable water rinse		
outer casing:	(good)	fair	poor	- water rinse:	~~distilled~~	deionized
inner casing:	(good)	fair	poor	- solvent rinse:	acetone	hexane
well photographed:	yes	(no)		- ~~air dry~~		

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$ 0.005 ft² × H × 7.48 ≈ 0.04

Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47

Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	0.7	Measuring Point Elevation (feet):	
Depth of Well (feet):	12	Groundwater Surface Elevation:	
Water Column (feet):	11.3	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	0.44	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	1.39	Remarks:	
Actual Purge Volume (gallons/liters):	0.46		
Pump Intake Depth (feet):	10	Ferrous Iron (mg/L): 0.31 mg/L	

Well Evacuation

Water level recovery is: very slow (slow) moderate fast — Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (μs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:00	0								PURGE START
10:05	0.05	21.4	5.38	1.43	112.0	148.5	0.05	3.02	clear
10:10	0.10	21.7	5.65	1.36	73.4	163.3	11.8	4.95	" "
10:15	0.15	21.8	5.32	0.30	95.3	135.1	52.5	5.23	cloudy
10:20	0.20	20.4	5.29	1.32	100.3	121.5	32.7	5.82	" "
10:25	0.25	20.6	5.21	1.08	112.0	117.5	41.0	6.35	" "
10:30	0.30	21.3	5.32	3.02	131.8	110.0	53.8	6.42	" "
10:35	0.35	21.4	5.42	5.66	128.3	112.1	30.4	6.51	" "
10:40	0.40	21.4	5.41	6.01	120.1	104.3	25.9	6.53	" "
10:45	0.43	21.5	5.43	6.30	113.3	102.4	28.0	6.53	" "
10:50	0.45	21.5	5.45	6.35	118.4	101.2	27.9	6.53	" "
10:55	0.46	21.6	5.45	6.35	110.4	101.3	26.5	6.55	" "
11:00	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/22/21
Turbidity	HF Scientific	Micro TPW 20000	6/22/21
Peristaltic Pump	Geotech	Geopump	6/22/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-10	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/23/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar	/EarthCon
SAMPLE TIME: 14:15	SITE :	FIELD CONDITIONS/WEATHER 80'F, Sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and ~~phosphate-free~~ soap
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	4.60	Measuring Point Elevation (feet):	
Depth of Well (feet):	12.33	Groundwater Surface Elevation:	
Water Column (feet):	7.73	LNAPL present: —	thickness:
Casing Volume (gallons/liters):	0.30	DNAPL present: —	thickness:
Calculated Purge Volume (gallons/liters):	0.91	Remarks:	
Actual Purge Volume (gallons/liters):	0.55		
Pump Intake Depth (feet):	11	Ferrous Iron (mg/L):	0.57 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
13:40	0								PURGE START
13:45	0.1	21.4	4.76	1.00	205.5	47.5	18.1	5.03	Clear
13:50	0.2	20.2	4.80	0.46	205.4	48.0	7.53	5.00	" "
13:55	0.25	20.2	4.80	0.41	207.6	48.0	5.36	5.00	" "
14:00	0.35	20.3	4.82	0.28	210.4	47.9	3.22	4.97	" "
14:05	0.45	20.2	4.80	0.27	216.4	47.8	3.35	4.97	" "
14:10	0.55	20.2	4.80	0.27	223.5	47.6	2.13	5.00	" "
14:15	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/23/21
Turbidity	HF Scientific	Micro TPW 20000	6/23/21
Peristaltic Pump	Geotech	Geopump	6/23/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	MS/MSD
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

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Groundwater Sampling Record

WELL No. MW-11	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6/24/21
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar /EarthCon	
SAMPLE TIME: 12:05	SITE :	FIELD CONDITIONS/WEATHER 80°F, Sunny	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: (good) fair poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water ~~and~~ phosphate-free soap
- potable water rinse
- water rinse: ~~distilled~~ deionized
- solvent rinse: acetone hexane
- ~~air dry~~

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$ 0.041
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 7.12
Depth of Well (feet): 9.59
Water Column (feet): 2.47
Casing Volume (gallons/liters): 0.10
Calculated Purge Volume (gallons/liters): 0.30
Actual Purge Volume (gallons/liters): 0.65
Pump Intake Depth (feet): 9

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks:
Ferrous Iron (mg/L): 0.71 mg/L

Well Evacuation
Water level recovery is: very slow (slow) moderate fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:10	0								PURGE START
11:15	0.05	23.7	5.54	1.95	108.7	146.5	10.5	7.44	Clear
11:20	0.10	23.1	5.77	1.77	61.6	197.4	3.0	7.50	" "
11:25	0.15	21.2	5.95	0.86	23.3	240.7	4.0	7.50	" "
11:30	0.20	21.2	6.05	0.22	4.2	262.9	3.5	7.53	" "
11:35	0.25	20.9	6.12	0.17	-9.5	275.4	2.0	7.52	" "
11:40	0.35	21.0	6.18	0.14	-19.9	280.3	2.0	7.52	" "
11:45	0.45	21.0	6.21	0.13	-26.0	282.5	3.0	7.54	" "
11:50	0.55	21.1	6.23	0.11	-32.1	287.0	3.0	7.51	" "
11:55	0.60	21.2	6.25	0.11	-34.7	288.6	2.5	7.52	" "
12:00	0.65	21.2	6.24	0.10	-34.8	289.0	2.5	7.52	" "
12:05	Sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/24/21
Turbidity	HF Scientific	Micro TPW 20000	6/24/21
Peristaltic Pump	Geotech	Geopump	6/24/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-14	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	
SAMPLE No.	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: Hannah Behar /EarthCon	DATE 6/24/21
SAMPLE TIME: 9:50	SITE :	FIELD CONDITIONS/WEATHER 75° F Sunny	

Well Condition Inspection (circle one)

- cover: (locked) not locked
- number: (legible) not legible
- outer casing: (good) fair poor
- inner casing: (good) fair poor
- well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap
- potable water rinse
- water rinse: distilled deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 7.20
Depth of Well (feet): 13.41
Water Column (feet): 6.21
Casing Volume (gallons/liters): 0.26
Calculated Purge Volume (gallons/liters): 0.77
Actual Purge Volume (gallons/liters): 0.5
Pump Intake Depth (feet): 12

Measuring Point Elevation (feet):
Groundwater Surface Elevation:
LNAPL present: — thickness:
DNAPL present: — thickness:
Remarks:
Ferrous Iron (mg/L): 1.92 mg/L

Well Evacuation
Water level recovery is: very slow slow (moderate) fast
Bailed dry: yes (no)

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
4:20	0								PURGE START
9:25	0.1	19.2	5.17	1.72	76.2	56.0	10.0	7.23	clear
9:30	0.2	18.9	5.08	0.23	103.7	48.5	5.5	7.23	" "
9:35	0.3	18.9	5.09	0.21	105.5	48.6	5.5	7.25	" "
9:40	0.4	19.0	5.09	0.19	106.6	48.7	3.5	7.25	" "
9:45	0.5	19.0	5.09	0.19	107.7	48.6	4.0	7.25	" "
9:50	sample								

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556	6/24/21
Turbidity	HF Scientific	Micro TPW 20000	6/24/21
Peristaltic Pump	Geotech	Geopump	6/24/21

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-15	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6.22.21
SAMPLE No. 1	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier	/EarthCon
SAMPLE TIME: 09:50	SITE :	FIELD CONDITIONS/WEATHER	

Well Condition Inspection (circle one)

cover:	locked	not locked	
number:	legible	not legible	
outer casing:	good	fair	poor
inner casing:	good	fair	poor
well photographed:	yes	no	

Equipment Cleaning Procedures

- potable water and phosphate-free soap: X
- potable water rinse
- water rinse: distilled X deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) 2" 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	6.85	Measuring Point Elevation (feet):	
Depth of Well (feet):	21.81	Groundwater Surface Elevation:	
Water Column (feet):	14.96	LNAPL present:	thickness:
Casing Volume (gallons/liters):	2.4	DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	7.0	Remarks:	
Actual Purge Volume (gallons/liters):	0.60		
Pump Intake Depth (feet):	~13	Ferrous Iron (mg/L):	0.39 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
09:10	0								PURGE START
09:15	0.10	20.5	5.10	0.79	158.8	97.7	41.5	7.0	clear
09:20	0.20	20.7	4.83	0.11	164.1	99.9	20.8	7.0	" "
09:25	0.30	20.7	4.85	0.05	166.3	99.6	7.27	7.00	" "
09:30	0.40	20.7	4.85	0.04	167.1	99.5	7.58	7.0	" "
09:35	0.50	20.7	4.86	0.01	170.1	98.5	4.89	7.0	" "
09:40	0.60	20.7	4.87	0.02	171.9	96.9	4.11	7.0	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	~~556~~ PRO DSS	6.22.21
Turbidity	~~HF Scientific~~ HANNA	Micro TPW 20000 HI98703	6.22.21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-16	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 6.22.21
SAMPLE No. 2	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier	/EarthCon
SAMPLE TIME: 10:50	SITE :	FIELD CONDITIONS/WEATHER Rain	

Well Condition Inspection (circle one)

cover: locked / not locked
number: legible / not legible
outer casing: good / fair / poor
inner casing: good / fair / poor
well photographed: yes / no

Equipment Cleaning Procedures

- potable water and phosphate-free soap X
- potable water rinse
- water rinse: distilled X / deionized
- solvent rinse: acetone / hexane
- air dry

Casing Diameter: (circle one) 2" / 4" / 6" / Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet):	5.00	Measuring Point Elevation (feet):	
Depth of Well (feet):	22.45	Groundwater Surface Elevation:	
Water Column (feet):	17.45 m	LNAPL present:	thickness:
Casing Volume (gallons/liters):		DNAPL present:	thickness:
Calculated Purge Volume (gallons/liters):	0.5	Remarks:	
Actual Purge Volume (gallons/liters):	0.65		
Pump Intake Depth (feet):	~20	Ferrous Iron (mg/L):	0.10 mg/L

Well Evacuation
Water level recovery is: very slow / slow / moderate / fast
Bailed dry: yes / no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
10:15	0								PURGE START
10:20	0.15	20.5	4.27	4.03	322.5	109.5	8.92	4.62	clear
10:25	0.35	20.3	4.07	4.44	356.5	109.8	5.35	4.62	clear
10:30	0.35	20.2	4.42	4.43	386.3	109.3	3.33	4.62	clear
10:35	0.45	20.2	4.42	4.42	393.1	109.1	2.47	4.62	clear
10:40	0.55	20.1	4.02	4.47	403.7	109.0	2.09	4.62	" "
10:45	0.65	20.1	4.03	4.47	408.1	109.6	2.99	4.62	

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556 PRODSS S/N 18019	6.22.21
Turbidity	HF Scientific	Micro TPW 20000 H198703 S/N 21011	6.22.21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
3	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

EARTHCON®

Groundwater Sampling Record

WELL No. MW-17	PROJECT # 02.20160378.00	LOCATION: Blackville, SC	DATE 10.22.21
SAMPLE No. 3	PROJECT NAME: Lennox, Blackville, SC	FIELD PERSONNEL/COMPANY: T. Messier /EarthCon	
SAMPLE TIME: 1200	SITE :	FIELD CONDITIONS/WEATHER Rain 82°	

Well Condition Inspection (circle one)

cover: (locked) not locked
number: (legible) not legible
outer casing: (good) fair poor
inner casing: good (fair) poor
well photographed: yes (no)

Equipment Cleaning Procedures

- potable water and phosphate-free soap (X)
- potable water rinse
- water rinse: distilled (X) deionized
- solvent rinse: acetone hexane
- air dry

Casing Diameter: (circle one) (2") 4" 6" Other:____

Casing Volume Calculation: $(\pi r^2 h)(7.48\ gal/ft^3)$
Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 9.81
Depth of Well (feet): 30.15
Water Column (feet): 20.34
Casing Volume (gallons/liters): 3.3
Calculated Purge Volume (gallons/liters): 10
Actual Purge Volume (gallons/liters): 0.75
Pump Intake Depth (feet): ~28

Measuring Point Elevation (feet): ____
Groundwater Surface Elevation: ____
LNAPL present: ____ thickness: ____
DNAPL present: ____ thickness: ____
Remarks: ____
Ferrous Iron (mg/L): 0.06 mg/L

Well Evacuation
Water level recovery is: very slow slow moderate fast Bailed dry: yes no

TIME 2400 hrs	CUMULATIVE VOLUME (gal)	TEMPERATURE (°C)	pH	DISSOLVED OXYGEN (mg/L)	ORP (mV)	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	Depth to Water (Feet)	ODOR/COLOR/ REMARKS
11:20	0								PURGE START
11:25	0.15	23.1	4.74	7.41	411.4	60.1	2.09	10.0	clear
11:30	0.25	20.1	4.42	2.49	413.4	57.4	1.68	10.0	" "
11:35	0.35	20.2	4.41	2.46	413.1	51.3	1.54	10.0	" "
11:40	0.45	20.0	4.35	2.43	416.1	51.2	1.38	10.0	" "
11:45	0.55	19.4	4.31	2.17	420.1	61.0	4.71	10.0	" "
11:50	0.65	19.4	4.30	2.15	425.6	56.9	3.36	10.0	" "
11:55	0.75	19.4	4.31	2.18	428.7	56.9	3.33	10.0	" "

Measurement and Sampling Equipment

Type	Manufacturer	Model #	Calibration Date
Water Quality	YSI	556 PRO DSS S/N 18019	6.22.21
Turbidity	~~HF Scientific~~ HANNA	Micro TPW 20000 S/N 21011	6.22.21
Peristaltic Pump	Geotech	Geopump S/N 20023	N/A

SAMPLE NUMBER	ANALYTICAL METHOD	BOTTLE TYPE/ PRESERVATIVES	QA REMARKS
3	VOCs	40 ml glass / HCL	
2	1,4 - Dioxane	40 ml glass / HCL	
2	Diss. Gasses	40 ml glass / HCL	
1	TOC	250 ml HDPE / H2SO4	
1	NO3/SO4/Cl/Alk	500 ml HDPE / none	
1	Sulfide	250 ml HDPE / ZnAcetate + NaOH	

Appendix F

Groundwater Elevations Summary

APPENDIX F: GROUNDWATER ELEVATIONS SUMMARY

Well Location	May-00	Apr-01	Jun-01	Jul-01	Mar-02	Jun-02	Dec-02	Jan-03	Mar-03	Jun-03	Aug-03	Feb-04
MW-1	273.81	275.70	na	na	274.80	273.04	274.85	274.97	276.00	276.34	275.87	276.20
MW-2	272.05	na	na	273.05	273.43	270.68	273.56	273.24	274.02	274.02	274.03	274.03
MW-3	273.66	na	na	274.27	273.85	272.30	273.86	273.98	274.96	275.87	275.45	275.47
MW-4	269.20	na	na	272.81	273.32	269.13	273.71	273.40	274.68	275.59	273.69	275.96
MW-5	na	na	na	na	na	na	na	na	na	na	na	na
MW-6/MW-6R	na	275.80	na	275.33	274.69	273.38	277.03	na	na	na	na	na
MW-7	na	275.98	275.03	na	275.05	273.09	274.77	275.25	276.02	276.43	276.07	276.33
MW-8	na	276.20	275.78	na	274.64	273.17	275.27	275.64	276.18	276.53	276.03	276.78
MW-9	na	na	273.95	na	273.72	271.64	274.56	273.98	275.08	275.25	274.78	275.22
MW-10	na	na	na	272.06	272.54	272.03	272.66	272.58	272.89	273.17	272.93	273.25
MW-11	na	na	na	274.41	275.86	275.66	275.84	275.12	276.03	276.09	275.87	276.18
MW-12	na	na	na	267.80	269.87	269.89	269.98	269.93	270.03	270.29	270.37	270.43
MW-13	na	na	na	na	na	na	272.50	272.47	272.59	272.80	272.83	272.92
MW-14	na	na	na	na	na	na	272.68	272.61	272.97	273.32	272.97	273.50
MW-15	na	na	na	na	na	na	na	na	na	na	na	na
MW-16	na	na	na	na	na	na	na	na	na	na	na	na
MW-17	na	na	na	na	na	na	na	na	na	na	na	na

Notes:
na - not available
nm - not measured

APPENDIX F: GROUNDWATER ELEVATIONS SUMMARY

Well Location	Jun-04	Oct-04	Feb-05	Sep-06	Mar-07	Sep-07	Dec-07	Jan-08	Mar-08	Sep-08	Apr-09	Sep-09
MW-1	274.13	273.84	275.59	274.28	275.22	274.27	275.24	275.65	275.98	273.55	273.68	272.76
MW-2	273.11	273.86	274.03	271.64	na	na	274.12	274.38	na	273.27	274.49	273.63
MW-3	274.04	274.55	274.58	274.10	274.66	273.89	273.94	274.46	275.05	272.05	275.32	273.27
MW-4	270.31	272.75	270.90	271.97	274.72	272.62	274.22	274.35	274.70	271.14	274.27	270.64
MW-5	na	na	na	na	na	na	na	na	na	na	na	na
MW-6/MW-6R	na	na	na	na	na	na	na	na	na	na	na	na
MW-7	274.55	274.98	274.91	274.28	274.13	275.67	na	na	276.26	274.70	276.14	272.72
MW-8	274.51	275.33	276.46	274.48	276.05	274.82	na	na	276.40	273.79	276.70	272.68
MW-9	272.86	273.77	274.64	272.96	274.18	272.87	na	na	275.08	272.06	274.81	271.74
MW-10	272.40	272.95	273.20	272.98	273.53	273.50	na	na	273.70	272.69	273.59	273.38
MW-11	275.87	275.83	275.97	275.48	275.83	275.38	na	na	274.32	na	275.44	274.75
MW-12	270.17	270.42	270.61	270.67	na	na	na	na	na	na	na	na
MW-13	272.68	272.98	273.08	na	na	na	na	na	na	na	na	na
MW-14	272.46	273.02	273.33	272.97	273.57	272.99	na	na	273.86	272.83	273.64	272.31
MW-15	na	na	na	na	na	na	na	na	na	na	na	na
MW-16	na	na	na	na	na	na	na	na	na	na	na	na
MW-17	na	na	na	na	na	na	na	na	na	na	na	na

Notes:
na - not available
nm - not measured

APPENDIX F: GROUNDWATER ELEVATIONS SUMMARY

Well Location	Mar-10	Oct-10	Sep-12	Jan-17	Oct-17	Mar-18	Oct-18	Mar-19	Oct-19	Apr-20	Jun-21
MW-1	276.00	274.94	273.29	276.29	274.60	276.12	276.38	275.89	272.93	276.34	275.11
MW-2	274.63	274.02	272.85	nm	272.98	274.90	274.89	274.59	271.02	275.18	274.00
MW-3	275.44	274.34	272.95	275.76	274.00	275.23	275.53	275.56	273.71	276.11	274.49
MW-4	274.30	273.19	270.80	274.83	270.51	273.56	275.24	273.11	267.87	273.54	272.09
MW-5	na	na	na	nm	272.81	274.46	274.53	273.24	271.33	274.43	273.58
MW-6/MW-6R	na	na	273.52	276.37	274.95	276.30	276.89	276.36	273.93	276.81	275.68
MW-7	275.60	275.06	272.63	276.71	274.92	276.14	276.57	275.74	272.72	276.51	275.41
MW-8	277.02	275.44	273.75	nm	274.58	276.51	276.37	276.45	275.90	276.63	276.13
MW-9	274.97	273.62	na	nm	nm	nm	nm	nm	nm	nm	nm
MW-10	273.59	273.45	271.50	273.06	271.88	274.24	274.29	274.13	269.95	274.33	273.51
MW-11	275.30	275.14	271.54	273.40	272.30	274.14	274.15	273.99	271.15	274.32	273.54
MW-12	na	na	na	nm	nm	nm	nm	nm	nm	nm	nm
MW-13	na	na	na	nm	nm	nm	nm	nm	nm	nm	nm
MW-14	273.68	273.43	271.62	273.57	272.27	274.29	274.35	274.22	269.73	274.59	273.61
MW-15	na	na	na	276.41	275.49	275.82	276.73	276.70	274.35	277.28	275.97
MW-16	na	na	na	nm	273.67	274.08	274.55	274.47	272.80	274.90	273.48
MW-17	na	na	na	na	na	na	na	na	274.04	276.79	275.52

Notes:
na - not available
nm - not measured

Prepared By: MAB 8/30/21
Checked By: CDN 10/20/21

Appendix G

Groundwater Historical Data Summary

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane	
MONITORING WELLS																																											
MW-1	09/01/99	<10	<2	<2	<2	<10	**10.6**	<2	<2	<2	<2	<2	<2	<2	**3.1**	**22.5**	**12,000**	**40.6**	**1,380**	**14.1**	--	**17.3**	<10	--	**78.5**	**685**	<2	<2	<2	**60.2**	**49.1**	**5,820**	<2	<2	<2	<2	**21.7**	**178**	**31.2**	**11.9**	--
	09/24/99	ND	**2.2**	ND	ND	ND	**9.2**	ND	ND	ND	ND	ND	ND	ND	**4.2**	**25.7**	**18,000**	**60.1**	**1,950**	**18**	ND	**23.8**	ND	--	**15.8**	**1,050**	ND	ND	ND	**24.6**	**43.1**	**8,260**	ND	ND	**3.8**	ND	**38.3**	**215**	**54.9**	**22.6**	--
	05/16/00	ND	**15.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**68.4**	**17,600**	**361**	**1,890**	ND	**27.1**	ND	ND	--	ND	**979**	ND	ND	ND	**29.4**	ND	**7,820**	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/10/01	ND	**1.28**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.31**	**27.4**	**10,600**	**46.4**	**1,050**	**13.3**	ND	ND	ND	--	**16.4**	**436**	ND	ND	ND	**24.1**	**105**	**4,260**	ND	ND	ND	ND	**24.9**	**54.3**	**34.3**	**14.5**	--
	06/27/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.2**	ND	**10.1**	**3,310**	**78**	**412**	**3.6**	ND	ND	ND	--	**2.6**	**372**	ND	ND	ND	**19.7**	**45**	**3,360**	ND	ND	ND	ND	**12.6**	**41.8**	**14.2**	**32.8**	--
	08/09/01	ND	**1.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	ND	**8,580**	**54**	**854**	**10.8**	ND	ND	ND	--	**5.6**	**396**	ND	ND	ND	**8.9**	**76**	**2,720**	ND	ND	ND	ND	ND	**118.0**	**25.4**	**10.3**	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.5**	**12.4**	**6,900**	**22**	**635**	**5.4**	ND	ND	ND	--	**4.6**	**317**	ND	ND	ND	**8.0**	ND	**2,680**	ND	ND	ND	ND	**10.7**	**72.7**	**74.3**	**7.3**	--
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.5**	**5,090**	**24**	ND	**6.0**	ND	ND	ND	--	**4.5**	ND	ND	ND	ND	**4.6**	**29**	ND	ND	ND	ND	**10.1**	**71.5**	**13.4**	ND	--
	07/15/02	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	**13.1**	**6,550**	**63**	**813**	**8.6**	ND	ND	ND	--	**4.8**	**344**	ND	ND	ND	**7.3**	**65**	**3,349**	ND	ND	**1.6**	ND	**14.8**	**87.8**	**18.9**	**9.4**	--
	10/16/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**	**647**	**10**	**1,900**	**13.8**	ND	ND	ND	--	**11.8**	**89**	ND	ND	**11.8**	**14.1**	**7**	**9,870**	ND	ND	ND	ND	**2.8**	**6.4**	**2.7**	**1.8**	--
	11/01/02	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.6**	**2,010**	**12**	**1,380**	**7.6**	ND	ND	ND	ND	--	**17.5**	**106**	ND	ND	ND	**13.4**	**15**	**7,230**	ND	ND	ND	ND	ND	**4.5**	**2.5**	ND	--
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**19.1**	**3,630**	**80**	**613**	**3.4**	ND	ND	ND	ND	--	**4.1**	**201**	ND	ND	ND	**5.4**	**18**	**2,454**	ND	ND	**1.4**	ND	**5.3**	**35.2**	**8.0**	**2.1**	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.5**	ND	**20.1**	**8,820**	**48**	**875**	**8.3**	ND	ND	ND	--	**4.4**	**265**	ND	ND	ND	**5.0**	**99**	**3,130**	ND	ND	ND	ND	ND	**90.5**	**19.4**	**8.7**	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**	**16.3**	**6,810**	**47**	**938**	**8.3**	ND	ND	ND	--	**2.2**	**239**	ND	ND	ND	**3.6**	**110**	**4,040**	ND	ND	**1.4**	ND	**13.8**	**91.8**	**18.4**	**5.8**	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	**1.3**	**6,130**	**14.5**	**441**	ND	ND	ND	ND	--	ND	**19**	ND	ND	ND	ND	**5.77**	**2,193**	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	**1.21**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**153**	**1.93**	**21.3**	**10,200**	**153**	**1040**	**13.0**	ND	ND	**9.44**	--	**5.96**	**355**	ND	ND	ND	**4.23**	**92.8**	**4,970**	ND	**1.98**	**1.78**	**3.30**	**1.96**	**136**	**29.6**	**11.9**	--
	06/02/04	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.20	**25.1**	**12,300**	**127**	**1,910**	**15.0**	ND	ND	ND	ND	--	**1.10**	**766**	ND	ND	ND	**1.80**	**120**	**9,220**	ND	**3.20**	ND	**1.10**	**24.8**	**176**	**34.6**	**13.9**	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17.5**	**5,200**	**49.3**	**680**	ND	ND	ND	ND	ND	--	ND	**422**	ND	ND	ND	**1.50**	**76.8**	**3,220**	ND	ND	ND	ND	ND	ND	**14.2**	--	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16.0**	**2,580**	**50.5**	**764**	**8.10**	ND	ND	ND	ND	--	**18.1**	**238**	ND	ND	ND	**9.10**	**85.6**	**3,530**	ND	**2.30**	**1.20**	ND	**13.8**	**92.2**	**19.8**	**9.00**	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15.0**	**8,200**	**57.5**	**820**	ND	ND	ND	ND	ND	--	<5	**264**	ND	ND	ND	<5	**75**	**3,940**	ND	ND	ND	ND	ND	ND	ND	<25	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17.8**	**12,400**	**133**	**1,380**	ND	ND	ND	ND	ND	--	ND	**524**	ND	ND	ND	ND	**112**	**6,580**	ND	ND	ND	ND	ND	ND	ND	**11.90**	--
	12/20/05	ND	**0.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15.6**	**11,900**	**28**	**1,300**	ND	ND	ND	ND	ND	--	**0.94**	**394**	ND	ND	ND	**2.37**	**97.5**	**5,830**	ND	ND	ND	ND	ND	ND	ND	**5.39**	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5,280**	ND	**520**	ND	ND	ND	ND	ND	--	ND	**110**	ND	ND	ND	ND	**75**	**2,430**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	**17.8**	**7,530**	**31.8**	**922**	**9.29**	<1	<1	<1	<1	--	<1	**209**	<1	<1	<1	**1.49**	**104**	**3,910**	<1	<1	**1.90**	**2.54**	**13.9**	**91.6**	**19.4**	**6.95**	--
	03/29/07	**14.3**	<10	<10	<10	<20	<10	<10	<10	<20	<10	<10	<10	**7.4**	<10	**13.5**	**3,120**	**14.1**	**159**	<10	<10	<10	<10	<10	--	**8.6**	**25.7**	<10	<10	<10	**13.9**	**58.9**	**736**	<10	<10	<10	<10	<10	**12.8**	<10	<10	--
	09/07/07	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	**700**	<5	**13**	<5	<5	<50	<5	--	<5	<5	<5	<5	<5	<5	**19**	**5.2**	<5	<5	<5	<5	<5	<5	<5	<5	--
	03/10/08	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**4,800**	**22**	**460**	<20	<20	<200	<20	--	<20	**64**	<20	<20	<20	<20	**86**	**1,900**	<20	<20	<20	<20	<20	**36**	<20	<20	--
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2,200**	ND	**94**	ND	ND	ND	ND	--	ND	**28**	ND	ND	ND	ND	**32**	**460**	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/20/09	<200	<10	<10	<10	120	<10	<10	<10	<20	<10	<10	<10	<10	<10	<10	**2,800**	**15**	**270**	<10	<10	<100	<10	--	<10	**18**	<10	<10	<10	<10	**98**	**1,000**	<10	<10	<10	<10	<10	**22**	<10	<10	--
	06/30/09	<40	<2	<2	<2	<20	<2	<2	<2	<4	<2	<2	<2	<2	<2	**5.3**	**2,200**	**12**	**220**	<2	<2	<20	<2	--	<2	**11**	<2	<2	<2	<2	**84**	**900**	<2	<2	<2	<2	2.7	**18**	**3.9**	**3.1**	--
	09/09/09	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**6,500**	**28**	**550**	<20	<20	<200	<20	--	<20	**69**	<20	<20	<20	<20	**150**	**2,300**	<20	<20	<20	<20	<20	**40**	<20	<20	--
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5,300**	**21**	**450**	ND	ND	ND	ND	--	ND	**20**	ND	ND	ND	ND	**170**	**1,900**	ND	ND	ND	ND	ND	**30**	ND	ND	--
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.0**	**1,200**	**5.6**	**45**	ND	ND	ND	ND	--	ND	**2.5**	ND	ND	ND	ND	**28**	**160**	ND	ND	ND	ND	ND	**2.6**	ND	ND	--
	09/27/12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	**1,650**	<100	<100	<100	<100	<100	<100	--	<100	<100	<100	<100	<100	<100	<100	**483**	<100	<100	<100	<100	<100	<100	<100	<100	--
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.77**	**734**	**4.33**	**32.8**	<1	<1	<10	<5	--	<1	**7.76**	<1	<1	<1	<1	**22**	**99.3**	<1	<1	<1	<1	<1	**1.83**	<1	<5	--
	01/31/17	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**1,800**	<20	**81**	<20	<20	<200	<20	**8.7 J**	<20	**15 J**	<20	<20	<20	<20	**67**	**380**	--	--	--	--	--	--	--	--	<1
	10/18/17	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10	<10	<10	<10	**1,100**	**11**	**10**	<10	<10	<100	<10	<10	<10	**5.0 J**	<10	<10	<10	<10	**58**	**53**	--	--	--	--	--	--	--	--	<1
	03/27/18	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	**420**	**2.0 J**	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	**8.4**	**12**	--	--	--	--	--	--	--	--	<1
	10/02/18	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**890**	<20	**33**	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20	**56**	**140**	--	--	--	--	--	--	--	--	<1
	03/26/19	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10	<10	<10	<10	**1400 J**	**4.8 J**	**32 J**	<10	<10	<100	<10	<10	**4.9 J**	<10	<10	<10	<10	**6.3 J**	**33 J**	**200 J**	--	--	--	--	--	--	--	--	<1
	10/14/19	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**1,000**	<20	**39**	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20	**38**	**97**	--	--	--	--	--	--	--	--	<1
	04/21/20	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10	<10	<10	<10	**670**	<10	**24**	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	**24**	**110**	--	--	--	--	--	--	--	--	<1
	06/23/21	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	**1700**	**8.1 J**	**97 J**	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20	**64**	**400 J**	--	--	--	--	--	--	--	--	<1
MW-1D	09/01/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--	<10	<10	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.53**	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/27/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/30/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**9.1**	<1	<1	<1	<1	<10	<1	--	**1.3**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**14.0**	<1	<1	<1	<1	<10	<1	--	**2.4**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**31.0**	ND	ND	ND	ND	ND	ND	--	**5.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.8**	ND	ND	ND	ND	ND	ND	--	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<5	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	**51.9**	<5	<5	<5	<5	<5	<5	--	**7.21**	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	--
	01/31/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**4.7**	<1	<1	<1	<1	**0.77 J**	<1	<1	--	--	--	--	--	--	--	--	<1
	10/18/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**6.3**	<1	<1	<1	<1	**1.2**	<1	<1	--	--	--	--	--	--	--	--	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**11**	<1	<1	<1	<1	**2.2**	<1	<1	--	--	--	--	--	--	--	--	<1
	10/02/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**14**	<1	<1	<1	<1	**2.6**	<1	<1	--	--	--	--	--	--	--	--	<1
	03/26/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**13**	<1	<1	<1	<1	**2.7**	<1	<1	--	--	--	--	--	--	--	--	<1
	10/14/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**26**	<1	<1	<1	<1	**4.7**	<1	<1	--	--	--	--	--	--	--	--	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**16**	<1	<1	<1	<1	**4.2**	<1	<1	--	--	--	--	--	--	--	--	<1
	06/25/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**0.94 J**	<1	<1	<1	<1	<10	<1	<1	**62**	<1	<1	<1	<1	**9.1**	<1	<1	--	--	--	--	--	--	--	--	<1
MW-2	09/01/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	--	<2	<2	<2	<2	<2	<2	<2	--	<10	<10	--	**6.9**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
	09/24/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**4.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.5**	--
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.58**	ND	ND	--	**7.97**	ND	ND	ND	ND	**1.98**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**7.06**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.77**	ND	ND	**4.28**	**1.98**	**1.84**	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**7.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**5.07**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/16/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**8.76**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**3.79**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**4.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**3.59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**4.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	**3.60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	**4.40**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	**4.20**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.72**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Cholride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.32**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.30**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	--
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**4.8**	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/18/17	<20	<1	<1	<1	**4.2 J**	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	**0.46 J**	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	--	--	--	--	--	--	--	--	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/02/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/26/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/14/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	04/22/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	09/03/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--	<10	<10	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.5**	ND	ND	--	**2.57**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/29/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**37.6**	<1	**3.95**	<1	<1	<1	<1	--	**8.2**	<1	<1	<1	<1	**32.7**	<1	**15.2**	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
MW-2D	03/11/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/20/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	--
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**1.4**	<1	<1	<1	<1	<1	<1	**0.50 J**	--	--	--	--	--	--	--	--	<1
	10/19/17	**3.4 J**	<1	<1	<1	**12**	<1	<1	<1	**0.50 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/02/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/26/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/14/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	04/22/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	09/01/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**11.4**	<2	**250**	<2	--	<10	<10	--	**4,700**	<2	<2	<2	<2	**34.2**	<2	**1,480**	<2	<2	<2	<2	<2	<2	<2	<2	--
	09/24/99	ND	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND	**127**	**7.8**	**40.2**	**660**	**14**	ND	ND	ND	ND	ND	--	**2,040**	ND	ND	**19.5**	**19.6**	**60.4**	**63**	**42.8**	ND	ND	ND	ND	ND	ND	ND	ND	--
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**460**	ND	**247**	**2,540**	**40**	**21.4**	ND	ND	ND	ND	--	ND	**7.87**	ND	**383**	ND	ND	**325**	**68.8**	ND	ND	ND	ND	ND	ND	ND	**1.84**	--
	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**133**	**11.2**	**167**	**1,570**	ND	**9.95**	ND	ND	ND	ND	--	**297**	**3.34**	ND	ND	**78**	**86.6**	ND	**61.9**	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	**50.7**	ND	ND	ND	**1,900**	**57.3**	**1,220**	**13,800**	**123**	**386**	ND	ND	ND	**19.6**	--	**125**	**121**	ND	**1,740**	**727**	**2,180**	**1,420**	**1,530**	ND	ND	ND	ND	ND	**4.2**	**2.4**	**21.4**	--
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**729**	**26.2**	**306**	**6,800**	**81.5**	**119**	ND	ND	ND	ND	--	**37.8**	**28.6**	ND	**451**	**231**	**183**	**242**	**327.1**	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,040**	**26.2**	**2,560**	**20,600**	**240**	**900**	ND	ND	ND	ND	--	**147**	**228**	ND	**451**	**231**	**1,610**	**1,260**	**3,828**	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	**51.7**	ND	ND	ND	**3,060**	**68.5**	**2,740**	**17,700**	**190**	**669**	ND	ND	ND	ND	--	**709**	**253**	ND	**4,600**	**1,670**	**3,870**	**1,810**	**2,912**	ND	ND	ND	ND	ND	**10.1**	**1.1**	**36.2**	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	**5.38**	ND	ND	ND	ND	ND	**411**	**4,120**	**42.5**	**38**	ND	ND	ND	ND	--	**107**	**12**	ND	**588**	**12.9**	**84**	**329**	**213**	ND	ND	ND	ND	ND	ND	ND	**5.98**	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**214**	**17.3**	**176**	**2,760**	**88.4**	**12.6**	ND	ND	ND	ND	--	**40.9**	**4.46**	ND	**145**	**105**	**50.9**	**136**	**60**	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	**3.29**	ND	ND	ND	**486**	ND	**480**	**1,600**	**53.2**	**1.29**	ND	ND	ND	**3.91**	--	**273**	ND	ND	**316**	**144**	**185**	**195**	**8.38**	**316**	ND	ND	ND	ND	ND	ND	**3.20**	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	**1.70**	ND	ND	ND	**264**	**5.7**	**175**	**1,600**	**21.7**	ND	ND	--	ND	**3.40**	--	**144**	ND	ND	**78.2**	ND	**86.8**	**96.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**270**	**1,920**	**35.3**	ND	ND	--	ND	ND	--	**251**	ND	ND	ND	ND	**197**	**154**	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	**3.60**	ND	ND	ND	**208**	**7.3**	**189**	**2,060**	**31.3**	**2.6**	ND	--	ND	**5.1**	--	**277**	ND	ND	**102**	**89.6**	**181**	**98.7**	**12.8**	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**122**	**1,440**	**18.2**	**4**	ND	ND	ND	ND	--	**455**	ND	ND	ND	ND	**139**	**52.0**	**43.2**	ND	ND	ND	ND	ND	ND	ND	<5	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**132**	**1,280**	**14.6**	ND	ND	ND	ND	ND	--	**228**	ND	ND	ND	ND	**122**	**45.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**186**	**3,500**	**18.8**	**4.86**	ND	ND	ND	ND	--	**763**	**1.77**	ND	ND	ND	**521**	**62.7**	**43.2**	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/28/06	ND	ND	ND	ND	ND	ND	ND	ND	**5.65**	ND	ND	ND	**339**	**11.9**	**195**	**2,840**	**34.6**	ND	ND	ND	ND	ND	--	**108**	ND	ND	**50.0**	**73.0**	**185**	**154**	**15.8**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	**11.1 J**	<1	**1.95**	<1	**235**	**12.3**	**164**	**2,450**	**35.7**	**13**	<1	<1	<1	<1	--	**187**	**3.92**	<1	**27.7**	**21.7**	**77.0**	**259**	**71.9**	<1	<1	<1	<1	<1	<1	<1	<1	--
MW-3	03/29/07	**51.1**	<10	<10	<10	<20	<10	**111**	<10	**18.7**	<10	<10	<10	**1,200**	**32.2**	**954**	**13,100**	**140**	**339**	<10	<10	<10	**28.7**	--	**35**	**68.4**	<10	**734**	**407**	**484**	**817**	**1,400**	<10	<10	<10	<10	<10	<10	<10	**11.2**	--
	09/07/07	<2,000	<100	<100	<100	<1,000	<100	<100	<100	<200	<100	<100	<100	**2,400**	<100	**2,300**	**29,000**	**220**	**820**	<100	<100	<1,000	<100	--	<100	**220**	<100	**2,600**	**1,200**	**2,400**	**1,400**	**3,300**	<100	<100	<100	<100	<100	<100	<100	<100	--
	02/08/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,500**	**34**	**1,100**	**15,000**	**120**	**410**	ND	ND	ND	**27**	--	**290**	**110**	ND	**1,300**	**690**	**650**	**780**	**1,600**	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/10/08	<2,000	<100	<100	<100	<1,000	<100	<100	<100	<200	<100	<100	<100	**1,800**	<100	**1,700**	**21,000**	**170**	**580**	<100	<100	<1,000	<100	--	<100	**170**	<100	**1,700**	**650**	**1,000**	**1,100**	**2,300**	<100	<100	<100	<100	<100	<100	<100	<100	--
	09/23/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,900**	ND	**3,000**	**46,000**	**300**	**1,200**	ND	ND	ND	ND	--	**760**	**400**	ND	**2,900**	**3,200**	**2,900**	**1,600**	**4,500**	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/20/09	<4,000	<200	<200	<200	<2,000	<200	<200	<200	<400	<200	<200	<200	**4,100**	<200	**3,800**	**42,000**	**370**	**1,300**	<200	<200	<2,000	<200	--	**1,500**	**520**	<200	**4,400**	**4,200**	**5,600**	**1,700**	**4,800**	<200	<200	<200	<200	<200	<200	<200	<200	--
	09/09/09	<4,000	<200	<200	<200	<2,000	<200	<200	<200	<400	<200	<200	<200	**4,000**	<200	**2,500**	**45,000**	**320**	**920**	<200	<200	<2,000	<200	--	**320**	**380**	<200	**2,400**	**3,800**	**1,400**	**710**	**3,600**	<200	<200	<200	<200	<200	<200	<200	<200	--
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,800**	ND	**2,400**	**45,000**	**270**	**1,100**	ND	ND	ND	ND	--	**290**	**390**	ND	**2,400**	**3,100**	**1,000**	**1,700**	**4,600**	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,900**	ND	**2,100**	**41,000**	**320**	**920**	ND	ND	ND	ND	--	**380**	**350**	ND	**1,400**	**2,700**	**1,600**	**2,200**	**3,600**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	**4,140**	<2,500	<2,500	**46,100**	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	--	<2,500	<2,500	<2,500	<2,500	**2,860**	<2,500	<2,500	<7,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	--
	10/02/14	**148**	<1	<1	<1	<50	**2.48**	<1	<1	<1	<1	<1	<1	**908**	**27.8**	**616**	**9,460**	**179**	**196**	<1	<1	**21.2**	**11.8**	--	**2.43**	**77.0**	<1	**20.3**	**87.8**	**17.8**	**709**	**817**	<1	<1	<1	**5.72**	<1	**2.27**	<1	**16.0**	--
	01/31/17	<4,000	<200	<200	<200	<2,000	<200	<200	<200	<400	<200	<200	<200	**890**	<200	**420**	**11,000**	**85 J**	**130 J**	<200	<200	<2,000	<200	<200	<200	<200	<200	<200	<200	<200	**700**	**530**	--	--	--	--	--	--	--	--	**190**
	10/18/17	<2,000	<100	<100	<100	<1,000	<100	<100	<100	<200	<100	<100	<100	**680**	**43 J**	**330**	**7,300**	**53 J**	**90 J**	<100	<100	<1,000	<100	<100	<100	<100	<100	<100	<100	<100	**520 J**	**320**	--	--	--	--	--	--	--	--	**130**
	03/27/18	<4,000	<200	<200	<200	<2,000	<200	<200	<200	<400	<200	<200	<200	**1,200**	<200	**690**	**16,000**	**170 J**	**330**	<200	<200	<2,000	<200	<200	<200	**110 J**	<200	<200	<200	<200	**1,200**	**1,300**	--	--	--	--	--	--	--	--	**290**
	10/02/18	<10,000	<500	<500	<500	**1,600 J**	<500	<500	<500	<1,000	<500	<500	<500	**1,800**	<500	**950**	**24,000**	**270 J**	**530**	<500	<500	<5,000	<500	<500	<500	<500	<500	<500	<500	<500	**2,000**	**2,100**	--	--	--	--	--	--	--	--	**350**
	03/27/19	<4,000	<200	<200	<200	<2,000	<200	<200	<200	<400	<200	<200	<200	**1,100**	<200	**540**	**15,000**	**120 J**	**310**	<200	<200	<2,000	<200	<200	<200	**97 J**	<200	<200	<200	<200	**900**	**1,200**	--	--	--	--	--	--	--	--	**310**
	10/15/19	<4,000	<200	<200	<200	**970 J**	<200	<200	<200	<400	<200	<200	<200	**1,500**	**99 J**	**840**	**24,000**	**250**	**490**	<200	<200	<2,000	<200	<200	<200	**150 J**	<200	<200	<200	<200	**1,800**	**2,000**	--	--	--	--	--	--	--	--	**460**
	04/21/20	<10,000	<500	<500	<500	<5,000	<500	<500	<500	<1,000	<500	<500	<500	**1,800**	<500	**990**	**30,000**	**260 J**	**820**	<500	<500	<5,000	<500	<500	<500	**220 J**	<500	<500	<500	<500	**1,700**	**3,300**	--	--	--	--	--	--	--	--	**410**
	06/23/21	<4,000	<200	<200	<200	<2000	<200	<200	<200	<400	<200	<200	<200	**1,500**	**100 J**	**760**	**24,000**	**210**	**520**	<200	<200	<2,000	<200	<200	<200	**190 J**	<200	<200	<200	<200	**1,400**	**2,300**	--	--	--	--	--	--	--	--	**260**
	09/03/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--	<10	<10	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	--
	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.41**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.5**	**10.8**	ND	ND	ND	ND	ND	ND	--	**1.5**	ND	ND	**1.8**	**1.6**	**2.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.38**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.39**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.6**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.80**	ND	ND	ND	--	ND	ND	--	**1.00**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**0.39**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/28/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.0**	<1	<1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane
MW-3D	03/29/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.5**	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.7**	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/23/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.6**	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	04/20/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	**2.8**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**5.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	–
	10/02/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	–	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	–
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	**0.63 J**	<1	<1	<1	<1	<1	**0.55 J**	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	10/18/17	<20	<1	<1	**7.0 J**	<1	<1	<1	<1	<2	**0.43 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	03/27/18	<20	<1	<1	<1	<1	<1	<1	<1	<2	**0.49 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	10/02/18	<20	<1	<1	<1	<1	<1	<1	<1	<2	**0.53 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	03/27/19	<20	<1	<1	<1	<1	<1	<1	<1	<2	**0.46 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	10/15/19	<20	<1	<1	<1	<1	<1	<1	<1	<2	**0.47 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	04/21/20	<20	<1	<1	<1	<1	<1	<1	<1	<2	**0.69 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
	06/23/21	<20	<1	<1	<1	<1	<1	<1	<1	<2	**1.1**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	**0.78 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	–	<1
MW-4	09/01/99	<10	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**2.9**	<2	<2	<2	<2	–	<10	<10	–	**2.4**	<2	<2	<2	<2	<2	<2	**7.4**	<2	<2	<2	<2	<2	<2	<2	<2	–
	09/24/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.5**	ND	ND	ND	ND	ND	ND	ND	–	**2.2**	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND	ND	ND	–
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND	–	**1.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.31**	ND	ND	ND	ND	ND	ND	ND	–	**3.13**	ND	ND	ND	ND	**2.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**1.16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.18**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.30**	ND	ND	ND	--	ND	ND	–	**1.70**	ND	ND	ND	ND	**1.90**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.47**	ND	ND	ND	ND	ND	ND	–	**1.24**	ND	ND	ND	ND	**1.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.82**	ND	0.66	ND	ND	ND	ND	–	**5.27**	ND	ND	ND	ND	**2.95**	ND	2.45	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.18**	<1	<1	<1	<1	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/30/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**10.2**	<1	<1	<1	<1	<1	<1	–	**2.11**	<1	<1	<1	<1	**4.36**	<1	3.3	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**2.7**	<1	<1	<1	<1	<1	<10	<1	–	**2.4**	<1	<1	<1	<1	**2.2**	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	–	**11**	ND	ND	ND	ND	**19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	04/20/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**5.8**	<1	<1	<1	<1	<1	<10	<1	–	**4**	<1	<1	<1	<1	**5**	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.6**	ND	ND	ND	ND	ND	ND	ND	–	**3.1**	ND	ND	ND	ND	**3.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	–
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**4.78**	<1	<1	<1	<1	<1	<10	<5	–	**3.99**	<1	<1	<1	<1	**4.89**	<1	<2	<1	<1	<1	<1	<1	<1	<5	–
	02/02/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.1**	<1	<1	<1	<1	<1	<10	<1	<1	**0.67 J**	<1	<1	<1	<1	**1.3**	<1	<1	–	–	–	–	–	–	–	–	<1
	10/19/17	**2.0 J**	<1	<1	**2.1 J**	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**6.8**	<1	<1	<1	<1	<1	<10	<1	<1	**2.4**	<1	<1	<1	**0.84 J**	**5.3**	<1	<1	–	–	–	–	–	–	–	–	**2.1 J**
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**6.8**	<1	<1	<1	<1	<1	<10	<1	<1	**4.6**	<1	<1	<1	**0.99 J**	**5.9**	<1	<1	–	–	–	–	–	–	–	–	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**5.9**	<1	<1	<1	<1	<1	<10	<1	<1	**2.0**	<1	<1	<1	**0.67 J**	**4.7**	<1	<1	–	–	–	–	–	–	–	–	<1
	03/27/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**4.1**	<1	<1	<1	<1	<1	<10	<1	<1	**2.4**	<1	<1	<1	**0.67 J**	**4.6**	<1	<1	–	–	–	–	–	–	–	–	<1
	10/15/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**7.2**	<1	<1	<1	<1	<1	<10	<1	<1	**3.3**	<1	<1	<1	**0.81 J**	**5.3**	<1	<1	–	–	–	–	–	–	–	–	**1.9 J**
	04/22/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**6.6**	<1	<1	<1	<1	<1	<10	<1	<1	**3.2**	<1	<1	<1	**0.61 J**	**4.5**	<1	<1	–	–	–	–	–	–	–	–	<1
	06/24/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**8.7**	<1	<1	<1	<1	<1	<10	<1	<1	**4.2**	<1	<1	<1	**0.93 J**	**6.9**	<1	<1	–	–	–	–	–	–	–	–	<1
MW-4D	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.24**	ND	ND	ND	ND	ND	ND	–	**2.01**	ND	ND	ND	ND	**1.24**	ND	ND	ND	ND	ND	ND	ND	ND	**0.6**	–
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.78**	<1	<1	<1	<1	<1	<1	–	<1	<1	<1	<1	<1	**8.35**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/30/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**21.6**	<1	<1	<1	<1	<1	<1	–	**2.76**	<1	<1	<1	<1	**6.91**	<1	**3.75**	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	04/20/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	**1.3**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	**1.2**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**1.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	–
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	–	**7.29**	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	–
	02/02/17	**3.5 J**	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**5.3**	<1	<1	<1	<1	**0.42 J**	<1	<1	–	–	–	–	–	–	–	–	<1
	10/19/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**7.8**	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**16**	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**19**	<1	<1	<1	<1	**0.41 J**	<1	<1	–	–	–	–	–	–	–	–	<1
	03/27/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**19**	<1	<1	<1	<1	**0.53 J**	<1	<1	–	–	–	–	–	–	–	–	<1
	10/17/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**16**	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	**16**	<1	<1	<1	<1	<1	<1	<1	–	–	–	–	–	–	–	–	<1
	06/25/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	**0.47 J**	<1	<1	<1	<1	<1	<1	<10	<1	<1	**19**	<1	<1	<1	<1	**0.73 J**	<1	<1	–	–	–	–	–	–	–	–	<1
	05/16/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.87**	ND	**2.87**	ND	**6.03**	ND	ND	ND	ND	ND	ND	–	**2,230**	ND	ND	ND	ND	**1,970**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.77**	ND	**3.5**	**636**	**7.63**	ND	ND	ND	ND	ND	ND	–	**872**	ND	ND	ND	**2.53**	**1,190**	**9.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/21/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	ND	**4.4**	**1140**	**10.7**	ND	ND	ND	ND	ND	ND	–	**1,920**	ND	ND	ND	ND	**2,710**	**7**	ND	ND	ND	ND	ND	ND	ND	ND	**9.5**	–
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	ND	**4.4**	**1160**	**13.2**	ND	ND	ND	ND	ND	**1.2**	–	**2470**	ND	ND	ND	**1.2**	**3380**	**8**	ND	ND	ND	ND	ND	ND	ND	ND	**12.3**	–
	04/19/02	ND	**15.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	**5**	**953**	**11.1**	ND	ND	**12.3**	ND	ND	–	**1240**	ND	ND	ND	ND	**2280**	**4.9**	ND	ND	ND	ND	ND	ND	ND	ND	**7.4**	–
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.88**	**1,280**	**21.9**	**25.1**	ND	ND	ND	ND	–	**1,700**	**1.56**	ND	ND	ND	**2,560**	**4.41**	**144.6**	ND	ND	ND	ND	ND	ND	ND	**2.03**	–
	07/15/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.46**	**1,290**	**21.4**	**1.63**	ND	ND	ND	ND	–	**1,350**	ND	ND	ND	ND	**2,360**	**4.37**	**3.33**	ND	ND	ND	ND	ND	ND	ND	**2.11**	–
	12/16/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.62**	ND	**5.53**	**1,080**	**20.8**	ND	ND	ND	ND	ND	–	**1,850**	ND	ND	ND	ND	**1,780**	**7.48**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**978**	**23.7**	ND	ND	ND	ND	ND	–	**1,120**	ND	ND	ND	ND	**1,560**	1.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	–

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane
MW-5	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/02/04	**123**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.60**
	08/18/04	**354**	ND	ND	ND	ND	**36.8**	ND	ND	ND	ND	ND	ND
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/18/05	**261**	ND	ND	ND	**119**	ND	ND	ND	ND	ND	ND	ND
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/28/06	**607**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/06	**241**	<1	<1	<1	**5.20**	<1	<1	<1	<2	<1	**2.34**	<1
	03/30/07	**509**	<10	<10	<10	<20	<10	<10	<10	<20	<10	<10	<10
	09/07/07	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20
	03/11/08	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	09/23/08	**360**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/20/09	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	09/09/09	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	03/02/10	ND	ND	ND	ND	ND	ND	**13**	ND	ND	ND	ND	ND
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/12	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
	02/02/17	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	10/19/17	<200	<10	<10	<10	**30 J**	<10	<10	<10	<20	<10	<10	<10
	03/28/18	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	03/27/19	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	10/16/19	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	04/22/20	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	06/24/21	<100 J	<5 J	<5 J	<5 J	<50 J	<5 J	<5 J	<5 J	<10 J	<5 J	<5 J	<5 J
MW-6R	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	10/02/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1
	01/31/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	**0.62 J**	<1	<1
	10/18/17	<20	<1	<1	<1	**15**	<1	<1	<1	<2	<1	<1	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	03/26/19	**7.7 J**	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	10/15/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	06/23/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
MW-7	04/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/27/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/09/01	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/21/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/19/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/15/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/16/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/01/02	ND	**1.35**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/12/02	ND	**1.14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/18/04	ND	ND	ND	ND	ND	**1.5**	ND	ND	ND	ND	ND	ND
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/05	ND	**0.59**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/06	**2.44**	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1
	03/29/07	**21.0**	<1	<1	<1	**20.7**	**1.53**	<1	<1	<2	<1	<1	<1
	09/07/07	<2,000	<100	<100	<100	<1,000	<100	<100	<100	<200	<100	<100	<100
	03/10/08	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/09	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	09/09/09	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/12	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	10/02/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1
	01/31/17	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	10/18/17	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20
	03/27/18	<400	<20	<20	<20	<200	<20	<20	<20	<40	<20	<20	<20
	10/03/18	<1,000	<50	<50	<50	<500	<50	<50	<50	<100	<50	<50	<50
	03/26/19	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	10/15/19	<100	<5	<5	<5	<50	<5	<5	<5	<10	<5	<5	<5
	04/21/20	<200	<10	<10	<10	<100	<10	<10	<10	<20	<10	<10	<10
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
MW-8	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/28/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	**2.57**	<1
	03/29/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/21/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	10/02/14	<25	<1	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1
	10/19/17	**2.8 J**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1
	03/27/18	**4.2 J**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1

Well	Sample Date	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Cholride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
MW-5	08/14/03	ND	ND	**2.64**	**1,110**	**15.8**	ND	ND	ND	ND	ND	--	**1,570**	ND	ND	ND	**1.55**	**1,630**
	02/13/04	**2.25**	ND	ND	**288**	**1.70**	ND	ND	ND	ND	ND	--	**1,330**	ND	ND	ND	ND	**604**
	06/02/04	ND	ND	**4.40**	**1,120**	**14.0**	ND	ND	--	ND	ND	--	**1,160**	ND	ND	ND	ND	**1,640**
	08/18/04	**4.40**	ND	**5.10**	**1,510**	**21.4**	ND	ND	--	ND	ND	--	**2,710**	ND	ND	ND	ND	**2,210**
	10/07/04	ND	ND	**4.6**	**2,000**	**18.6**	ND	ND	--	ND	ND	--	**1,820**	ND	ND	ND	ND	**2,540**
	02/18/05	ND	ND	**6.00**	**1,040**	**26.3**	ND	ND	--	ND	ND	--	**630**	ND	ND	ND	ND	**855**
	06/02/05	ND	ND	**6.00**	**1,860**	**20.9**	**1.5**	ND	--	ND	ND	--	**800**	ND	ND	ND	ND	**1,870**
	09/28/05	ND	ND	**6.79**	**3,010**	**26.2**	**2.53**	ND	--	ND	ND	--	**253**	ND	ND	ND	ND	**1,530**
	12/20/05	ND	ND	**7.91**	**2,860**	**19.7**	**2.97**	ND	--	ND	ND	--	**184**	**0.25**	ND	ND	ND	**764**
	06/28/06	ND	ND	ND	**2,850**	**17.1**	ND	ND	ND	ND	ND	--	**336**	ND	ND	ND	ND	**878**
	09/27/06	**4.16**	<1	**8.24**	**2,620**	**20.0**	<1	<1	<1	<1	<1	--	**275**	<1	<1	<1	<1	**722**
	03/30/07	**4.40**	<10	<10	**3,060**	**19.9**	<10	<10	<10	<10	<10	--	**326**	<10	<10	<10	<10	**690**
	09/07/07	<20	<20	<20	**3,500**	**24**	<20	<20	<20	<200	<20	--	<20	<20	<20	<20	<20	<20
	03/11/08	<10	<10	<10	**2,200**	**16**	<10	<10	<10	<100	<10	--	**290**	<10	<10	<10	<10	**560**
	09/23/08	ND	ND	ND	**2,800**	**18.0**	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	04/20/09	<10	<10	<10	**2,400**	**15**	<10	<10	<10	<100	<10	--	<10	<10	<10	<10	<10	<10
	09/09/09	<10	<10	<10	**2,000**	**14**	<10	<10	<10	<100	<10	--	<10	<10	<10	<10	<10	<10
	03/02/10	**6.3**	ND	**5.9**	**2,100**	**10**	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	10/07/10	ND	ND	ND	**1,600**	**9**	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	09/27/12	<25	<25	<25	**750**	<25	<25	<25	<25	<25	<25	--	**70.0**	<25	<25	<25	<25	**244**
	02/02/17	**3.7 J**	<5	<5	**800**	**9.2**	<5	<5	<5	<50	<5	<5	**120**	<5	<5	<5	<5	**170**
	10/19/17	<10	<10	<10	**490**	**6.6 J**	<10	<10	<10	<100	<10	<10	**110**	<10	<10	<10	<10	**190**
	03/28/18	**6.6**	<5	<5	**280**	**2.6 J**	<5	<5	<5	<50	<5	<5	**85**	<5	<5	<5	**2.1 J**	**230**
	10/03/18	**5.3**	**0.75 J**	**1.7**	**300**	**3.4**	<1	<1	<1	<10	<1	<1	**130**	<1	<1	<1	**1.0**	**220**
	03/27/19	**4.6 J**	<5	<5	**320**	**2.9 J**	<5	<5	<5	<50	<5	<5	**130**	<5	<5	<5	<5	**250**
	10/16/19	**7.6**	**2.6 J**	<5	**450**	**3.9 J**	**17**	**3.4 J**	<5	<50	<5	<5	**19 J**	<5	**4.0 J**	<5	<5	**160**
	04/22/20	**2.5 J**	<5	<5	**320**	**2.7 J**	<5	<5	<5	<50	<5	<5	**110**	<5	<5	<5	<5	**170**
	06/24/21	**4.7 J**	<5 J	**2.4 J**	**370 J**	**3.7 J**	**2.7 J**	<5 J	<5 J	<50 J	<5 J	<5 J	**120 J**	<5 J	<5 J	<5 J	<5 J	**210 J**
MW-6R	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5
	10/02/14	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	--	<1	<1	<1	<1	<1	<1
	01/31/17	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	10/18/17	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	03/27/18	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	10/03/18	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	03/26/19	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	10/15/19	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	04/21/20	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	06/23/21	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
MW-7	04/10/01	ND	ND	**1.42**	**982**	**7.47**	**69.2**	ND	ND	ND	ND	--	**758**	**11.1**	ND	ND	ND	**677**
	06/27/01	ND	ND	**2.86**	**5,880**	**68.7**	**1,020**	**2.86**	ND	ND	ND	--	**7,860**	**69.3**	ND	ND	ND	**4,150**
	08/09/01	ND	2.01	**24**	**10,900**	**53.5**	**1,010**	**11.6**	ND	ND	ND	--	**5.1**	**446**	ND	ND	ND	**9.62**
	02/21/02	ND	ND	**9.1**	**3,460**	**25.1**	**618**	ND	ND	ND	**5.2**	--	**6,250**	**35.3**	ND	ND	ND	**3,690**
	03/18/02	ND	ND	**12**	**7,250**	**46.3**	**1,580**	**7.7**	ND	ND	**5.9**	--	**16,400**	**70**	ND	ND	**7.7**	**>6,920**
	04/19/02	ND	ND	**3.6**	**2,240**	**17**	**263**	**1.1**	ND	ND	ND	--	**4,410**	**13.4**	ND	ND	ND	**2,560**
	06/27/02	ND	ND	**8.06**	**4,140**	**39.1**	**332**	**2.65**	ND	ND	ND	--	**4,630**	**25.9**	ND	ND	**4.58**	**2,950**
	07/15/02	ND	ND	**8.89**	**4,150**	**52.6**	**809**	**4.08**	ND	ND	ND	--	**7,760**	**39.3**	ND	10.2	**6.4**	**4,270**
	10/16/02	ND	ND	**15.9**	**8,480**	**103**	**1900**	**13.8**	ND	ND	ND	--	**11,700**	**89.4**	ND	ND	**11.8**	**7,700**
	11/01/02	ND	ND	**21.7**	**4,880**	**74**	**1,380**	**7.59**	ND	ND	ND	--	**1,860**	**106**	ND	ND	ND	**6,280**
	12/12/02	ND	ND	**20.9**	**6,440**	**78.8**	**1,450**	**11.7**	ND	ND	ND	--	**9,980**	**116**	ND	ND	**10**	**4,690**
	06/17/03	ND	ND	**5.1**	**2,480**	**61.8**	**356**	ND	ND	ND	ND	--	**1,280**	**19**	ND	ND	ND	**1,030**
	02/13/04	ND	ND	**7.89**	**6,660**	**97.3**	**2,190**	**12.9**	ND	ND	**9.44**	--	**13,200**	**114**	ND	ND	ND	**5,250**
	08/18/04	ND	ND	**11.5**	**6,500**	**150**	**2,140**	**7.3**	--	ND	**17.7**	--	**12,300**	**57.2**	ND	ND	ND	**5,900**
	02/18/05	ND	ND	**7.50**	**780**	**35.0**	**1,110**	**6.50**	--	ND	**7.10**	--	**2,480**	**35.3**	ND	ND	3.90	**1,280**
	06/02/05	ND	ND	**6.1**	**2,690**	**33.7**	**620**	ND	ND	ND	ND	--	**6,440**	**26.8**	ND	ND	ND	**3,090**
	09/28/05	ND	ND	**7.9**	**4,010**	**30.2**	ND	ND	ND	ND	ND	--	**4,980**	**22.8**	ND	ND	ND	**5,390**
	12/20/05	ND	ND	**13.3**	**5,290**	**43.5**	**1,350**	ND	ND	ND	ND	--	**6,560**	**59.0**	ND	ND	ND	**4,840**
	06/26/06	ND	ND	ND	**2,930**	ND	**1,020**	ND	ND	ND	ND	--	**6,060**	ND	ND	ND	ND	**4,640**
	09/28/06	<1	<1	**8.60**	**2,480**	**15.5**	**625**	**5.63**	<1	<1	**1.54**	--	**2,900**	**23.0**	<1	<1	**3.19**	**3,220**
	03/29/07	<1	<1	**15.2**	**5,810**	**23.9**	**1,240**	**7.20**	<1	<1	**5.60**	--	**3,530**	**39.4**	<1	**1.23**	**4.88**	**5,850**
	09/07/07	<100	<100	<100	**21,000**	<100	**1,900**	<100	<100	<1,000	<100	--	<100	<100	<100	<100	<100	**1,300**
	03/10/08	<20	<20	<20	**3,900**	<20	**340**	<20	<20	<200	<20	--	**41**	<20	<20	<20	<20	**250**
	09/22/08	ND	ND	ND	**7,300**	ND	**810**	ND	ND	ND	ND	--	ND	**27.0**	ND	ND	ND	**38**
	04/21/09	<10	<10	<10	**550**	<10	**200**	<10	<10	<100	<10	--	<10	<10	<10	<10	<10	<10
	09/09/09	<10	<10	<10	**340**	<10	**750**	<10	<10	<100	<10	--	<10	**25**	<10	<10	<10	<10
	03/02/10	ND	ND	ND	**870**	ND	**1,300**	ND	ND	ND	ND	--	ND	**33**	ND	ND	ND	ND
	10/07/10	ND	ND	ND	**850**	ND	**210**	ND	ND	ND	ND	--	ND	**7.2**	ND	ND	ND	ND
	09/27/12	<100	<100	<100	**1,890**	<100	**431**	<100	<100	<100	<100	--	<100	<100	<100	<100	<100	<100
	10/02/14	<1	<1	<1	**200**	**1.57**	**104**	<1	<1	<10	<5	--	<1	**2.82**	<1	<1	<1	<1
	01/31/17	<5	<5	<5	**640**	<5	**84**	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
	10/18/17	<20	<20	<20	**1,100**	<20	**130**	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20
	03/27/18	<20	<20	<20	**1,700 J**	<20	**100**	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20
	10/03/18	<50	<50	<50	**3,100**	<50	**220**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	03/26/19	<5	<5	<5	**440**	<5	**79**	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
	10/15/19	<5	<5	<5	**810**	**6.3**	**37**	<5	<5	<50	<5	<5	**3.1 J**	<5	<5	<5	<5	**6.4**
	04/21/20	<10	<10	<10	**560**	**4.2 J**	**47**	<10	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10
	06/22/21	<1	<1	<1	**190**	**0.71 J**	**7.4**	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	**0.69 J**
MW-8	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	06/02/04	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND
	10/07/04	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	ND
	02/18/05	ND	ND	ND	**20.5**	ND	**9.1**	ND	--	ND	ND	--	**50.6**	ND	ND	ND	ND	**39.5**
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.93**	ND	ND	ND	ND	ND
	09/28/06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	<1
	03/29/07	<1	<1	<1	**11.6**	<1	<1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	<1
	09/06/07	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1
	03/10/08	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	04/21/09	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1
	09/09/09	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5
	10/02/14	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	--	<1	<1	<1	<1	<1	<1
	10/19/17	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	03/27/18	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1

Well	Sample Date	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane
MW-5	08/14/03	**2.55**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	**7.90**	**3.5**	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/18/04	**7.20**	ND	ND	ND	ND	ND	ND	ND	ND	**18.2**	--
	10/07/04	**7.3**	ND	ND	ND	ND	ND	ND	ND	ND	**20.5**	--
	02/18/05	**5.60**	ND	ND	ND	ND	ND	ND	ND	ND	**9.3**	--
	06/02/05	**7.00**	**6.4**	ND	ND	ND	ND	ND	ND	ND	**18.8**	--
	09/28/05	**6.99**	**11.3**	ND	ND	ND	ND	ND	ND	ND	**24.2**	--
	12/20/05	**5.08**	**12.7**	ND	ND	ND	ND	ND	ND	ND	**28.6**	--
	06/28/06	**7.25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/06	**9.34**	**1.45**	<1	<1	**1.11**	<1	<1	<1	<1	**31.7**	--
	03/30/07	**11.6**	<10	<10	<10	<10	<10	<10	<10	<10	19.0	--
	09/07/07	**79**	<20	<20	<20	<20	<20	<20	<20	<20	<20	--
	03/11/08	**43**	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	09/23/08	**160**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/20/09	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	09/09/09	**480**	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
	03/02/10	**9.2**	ND	ND	ND	ND	ND	ND	ND	ND	**29**	--
	10/07/10	**81**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<25	<75	<25	<25	<25	<25	<25	<25	<25	<25	--
	02/02/17	**6.6**	<5	--	--	--	--	--	--	--	--	**14**
	10/19/17	**6.7 J**	<10	--	--	--	--	--	--	--	--	**7**
	03/28/18	**3.4 J**	<5	--	--	--	--	--	--	--	--	**10**
	10/03/18	**5.7**	<1	--	--	--	--	--	--	--	--	**7.6**
	03/27/19	**3.5 J**	<5	--	--	--	--	--	--	--	--	**9.7**
	10/16/19	**9.1 J**	**2.9 J**	--	--	--	--	--	--	--	--	**58**
	04/22/20	**5.1**	<5	--	--	--	--	--	--	--	--	**9.1**
	06/24/21	**8.8 J**	<5 J	--	--	--	--	--	--	--	--	**13**
MW-6R	09/27/12	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/02/14	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	--
	01/31/17	<1	<1	--	--	--	--	--	--	--	--	<1
	10/18/17	<1	<1	--	--	--	--	--	--	--	--	<1
	03/27/18	<1	<1	--	--	--	--	--	--	--	--	<1
	10/03/18	<1	<1	--	--	--	--	--	--	--	--	<1
	03/26/19	<1	<1	--	--	--	--	--	--	--	--	<1
	10/15/19	<1	<1	--	--	--	--	--	--	--	--	<1
	04/21/20	<1	<1	--	--	--	--	--	--	--	--	<1
	06/23/21	<1	<1	--	--	--	--	--	--	--	--	<1
MW-7	04/10/01	**20.6**	**395.4**	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/27/01	**190**	**3,430**	ND	ND	**1.38**	ND	ND	**1.48**	ND	ND	--
	08/09/01	**69.1**	**3,016**	ND	ND	ND	ND	ND	**120**	**26.3**	ND	--
	02/21/02	**136**	**3,219**	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/18/02	**240**	**8,000**	ND	ND	ND	ND	**2.3**	**4.9**	**12.5**	**3.1**	--
	04/19/02	**50.6**	**1,719**	ND	ND	ND	ND	ND	ND	**2**	ND	--
	06/27/02	**149**	**2,230**	ND	ND	ND	ND	ND	**1.31**	ND	ND	--
	07/15/02	**55.2**	**4,270**	ND	ND	ND	ND	ND	**2.63**	**1.25**	**1.05**	--
	10/16/02	**294**	**9,870**	ND	ND	ND	ND	**2.84**	**6.35**	**2.73**	**1.8**	--
	11/01/02	ND	**7,230**	ND	ND	ND	ND	ND	**4.49**	**2.51**	ND	--
	12/12/02	**239**	**10,950**	ND	ND	ND	ND	**2.63**	**4.41**	**2.24**	ND	--
	06/17/03	**103**	**1,606**	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	**641**	**9,770**	ND	ND	ND	ND	**1.96**	**8.11**	**2.26**	**1.16**	--
	08/18/04	**137**	**9,000**	**5.00**	ND	ND	ND	**1.80**	**3.80**	**1.60**	ND	--
	02/18/05	**104**	**4,170**	ND	ND	ND	ND	ND	**3.5**	**1.40**	ND	--
	06/02/05	**81.9**	**2,810**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	**96.8**	**2,660**	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	**156**	**5,440**	ND	ND	ND	ND	ND	ND	ND	**0.18**	--
	06/26/06	**120**	**4,040**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/06	**81.2**	**2,350**	**1.98**	<1	<1	<1	**1.24**	**3.25**	**1.17**	<1	--
	03/29/07	**132**	**4,650**	<1	<1	<1	<1	**2.02**	**7.08**	**2.39**	<1	--
	09/07/07	**350**	**7,300**	<100	<100	<100	<100	<100	<100	<100	<100	--
	03/10/08	**170**	**1,500**	<20	<20	<20	<20	<20	<20	<20	<20	--
	09/22/08	**400**	**3,400**	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/21/09	**340**	**790**	<10	<10	<10	<10	<10	<10	<10	<10	--
	09/09/09	**450**	**3,300**	<10	<10	<10	<10	<10	<10	<10	<10	--
	03/02/10	**730**	**5,700**	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/10	**140**	**870**	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	**472**	**1,720**	<100	<100	<100	<100	<100	<100	<100	<100	--
	10/02/14	**319**	**373**	<1	<1	<1	<1	<1	<1	<1	<5	--
	01/31/17	**200**	**320**	--	--	--	--	--	--	--	--	<1
	10/18/17	**710**	**420**	--	--	--	--	--	--	--	--	<1
	03/27/18	**460**	**310**	--	--	--	--	--	--	--	--	<1
	10/03/18	**510**	**960**	--	--	--	--	--	--	--	--	<1
	03/26/19	**200**	**210**	--	--	--	--	--	--	--	--	<1
	10/15/19	**120**	**140**	--	--	--	--	--	--	--	--	<1
	04/21/20	**110**	**140**	--	--	--	--	--	--	--	--	<1
	06/22/21	**21**	**24**	--	--	--	--	--	--	--	--	<1
MW-8	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	**32.5**	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.28**	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/29/07	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/06/07	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/10/08	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/22/08	ND	**1.9**	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/21/09	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/09/09	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/02/14	<1	<2	<1	<1	<1	<1	<1	<1	<1	<5	--
	10/19/17	<1	<1	--	--	--	--	--	--	--	--	**3.4**
	03/27/18	<1	<1.1	--	--	--	--	--	--	--	--	**1.7 J**

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1.1	--	--	--	--	--	--	--	--	--	**2.3 J**
	03/26/19	**11 J**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1.1	--	--	--	--	--	--	--	--	--	**3.2**
	10/15/19	**19 J**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	**2.5**	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1.1	--	--	--	--	--	--	--	--	--	**1.5 J**
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1.1	--	--	--	--	--	--	--	--	--	**3.2**
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1.1	--	--	--	--	--	--	--	--	--	<1
MW-9	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/16/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**3.31**	ND	ND	ND	ND	**2.75**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.28**	ND	ND	ND	ND	ND	ND	--	**1.49**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.56**	--
	06/28/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	**1.72**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/29/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**7.69**	<1	**1.94**	<1	<1	<1	<1	--	**4.31**	<1	<1	<1	<1	**12.4**	<1	**7.58**	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/07/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/23/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/21/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/10/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/03/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
MW-10	07/10/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.33**	ND	ND	ND	ND	ND	ND	--	**8.63**	ND	ND	ND	ND	**3.58**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	**1.2**	--	**7.9**	ND	ND	ND	ND	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/27/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.5**	ND	ND	ND	ND	ND	ND	--	**8.7**	ND	ND	ND	ND	**3.47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.27**	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	**1.15**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.74**	ND	ND	ND	ND	ND	ND	--	**16.6**	ND	ND	ND	ND	**3.34**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.13**	ND	ND	ND	ND	ND	ND	--	**7.55**	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.35**	ND	ND	ND	ND	ND	ND	--	**4.38**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	**1.19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.50**	ND	ND	ND	ND	--	ND	--	**10.7**	ND	ND	ND	ND	**2.40**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	ND	--	ND	--	**6.0**	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**	ND	ND	ND	ND	--	ND	--	**2.6**	ND	ND	ND	ND	**1.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.7**	ND	ND	ND	ND	ND	ND	--	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.9**	ND	ND	ND	ND	ND	ND	--	**1.5**	ND	ND	ND	ND	**1.4**	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	**2.69**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**1.29**	<1	<1	<1	<1	<1	<1	--	**4.11**	<1	<1	<1	<1	**1.12**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/29/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**19.8**	<1	**3.19**	<1	<1	<1	<1	--	**7.52**	<1	<1	<1	<1	**23.5**	<1	**12.0**	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/07/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/11/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	04/21/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/10/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	--
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/18/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/28/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/27/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/15/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	**0.97 J**	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	**2.1 J**
	04/22/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	06/23/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
MW-11	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.32**	ND	ND	ND	ND	ND	ND	--	**1.05**	ND	ND	ND	ND	**0.44**	ND	**0.36**	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	--
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	--
	10/01/14	<25	<1	<1	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	--	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	--
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/19/17	**2.5 J**	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/28/18	**3.1 J**	<1	<1	<1	**12**	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	03/27/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	04/22/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
	06/24/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	<1
MW-12	03/18/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.49**	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	**2.47**	ND	ND	ND	ND	**1.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	09/28/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**37.4**	ND	ND	ND	ND	ND	ND	--	ND	**2.47**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.9**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.10**	ND	**2.2**	ND	ND	--	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.5**	ND	ND	ND	ND	--	ND	--	ND	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--

APPENDIX G: GROUNDWATER HISTORICAL DATA SUMMARY

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Bromoform	2-Butanone (MEK)	Carbon disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	MTBE	4-Methyl-2-pentanone	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes	1,1,1,2-Tetrachloroethane	n-Butylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,4-Dioxane
MW-13	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.7**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.59**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.72**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
MW-14	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/13/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	**1.23**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	**11.4**	ND	ND	ND	**2.60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	**1.90**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**2.10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**2.24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.54**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**2.10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**1.66**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/10/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	–	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	–
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	--
	10/18/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/28/18	<20	<1	<1	<1	<10	**16**	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/27/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/16/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	**0.53 J**	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	04/22/20	**8.4 J**	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	**3.3**	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	06/24/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	**8.2**	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
MW-15	09/27/12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–	<5	<5	<5	<5	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	–
	10/01/14	<25	<1	<1	<1	<50	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<5	–	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	–
	02/01/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/18/17	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/26/19	**2.7 J**	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/15/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
MW-16	10/19/17	**2.2 J**	<1	<1	<1	<10	<1	<1	<1	<2	**1.9**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/27/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.9**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/03/18	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.8**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	03/26/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.6**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	10/15/19	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.5**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.4**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	**1.6**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
MW-17	10/18/19	**5.4 J**	<1	**1.1**	**0.43 J**	<10	<1	<1	<1	<2	**1.4**	<1	**1.1**	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	04/21/20	<20	<1	<1	<1	<10	<1	<1	<1	<2	**0.71 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
	06/22/21	<20	<1	<1	<1	<10	<1	<1	<1	<2	**0.81 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	<1
WATER SUPPLY WELLS																																												
WS-1	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.26**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**2.17**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	**1.23**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/13/04	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.23**	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/18/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.23**	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	12/20/05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.92**	ND	**0.38**	ND	ND	ND	ND	ND	–	**2.98**	ND	ND	ND	ND	**1.62**	ND	**0.97**	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/26/06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	09/28/06	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	**1.55**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/30/07	<2	<1	<1	<1	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/06/07	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/10/08	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/22/08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	04/21/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	09/09/09	<20	<1	<1	<1	<10	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	–	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	–
	03/02/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
WS-3	12/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.03**	ND	ND	ND	ND	ND	ND	ND	–	**2.17**	ND	ND	ND	ND	**3.55**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	**1.19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/17/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	08/14/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**37.4**	ND	ND	ND	ND	ND	ND	ND	–	ND	**2.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	02/13/04	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.9**	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	06/02/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
	10/07/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–

Notes:
Concentrations reported in micrograms per liter
< - concentration less than the stated reporting limit (RL), practical quantitation limit (PQL) or Limit of Quantitation (LOQ); detection limit for 1,4-dioxane is the detection limit (DL)
ND - not detected above the RL , PQL or LOQ (limits not provided)
J - estimated concentration
-- constituent not analyzed

Prepared by: MAB 8/30/21
Checked by: CDN 10/20/21

Appendix H

Ricker Method® Plume Stability Analysis Input Data and Metrics Summary

PCE Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	79	<2.0	16	5.6	4.6
MW-2	6.9	8	NS (7.4)	7.1	7.2
MW-3	4,700	<2.0	NS (198)	297	125
MW-4	2.4	<2.0	NS (2.6)	NS (2.8)	3.1
MW-5	NA	2,230	NS (1,327)	872	2,470
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	7,860	5.1	16,400
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	8.6	8.7
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	18	4.4	<2.0	6	<2.0
MW-2	8.8	4	3.6	4	4.4
MW-3	147	709	41	273	251
MW-4	1.2	<2.0	<2.0	1.7	1.8
MW-5	1,850	1,120	1,570	1,330	2,710
MW-6R	NA	NA	NA	NA	NA
MW-7	11,700	1,280	NS (7,273)	13,200	12,300
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	3.3	NS (2.7)	<2.0	<2.0	<2.0
MW-10	NS (13)	17	4.4	11	6
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	18	0.94	<1.0	<1.0	8.6
MW-2	4.2	2.7	1.3	NS (1.3)	NS (1.3)
MW-3	455	763	108	187	35
MW-4	<5.0 (3.5)	5.3	<1.0	<1.0	2.1
MW-5	800	253	336	275	326
MW-6R	NA	NA	NA	NA	NA
MW-7	6,440	6,560	6,060	2,900	3,530
MW-8	51	<5.0	1.9	<1.0	<1.0
MW-9	<5.0 (1.7)	1.5	<1.0	<1.0	4.3
MW-10	2.6	1.5	2.7	4.1	7.5
MW-11	<5.0 (1.5)	1.1	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0	<20 (3.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.3)	NS (1.3)	NS (1.3)	NS (1.3)	NS (1.3)
MW-3	<100	290	760	1,500	320
MW-4	2.4	<1.0	11	<1.0	4
MW-5	<20	290	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100	41	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (3.1)
MW-2	1.3	<1.0	<5.0 (1.0)	<1.0	4.8
MW-3	290	380	<2,500 (191)	2.4	<200 (2.4)
MW-4	<1.0	3.1	<5.0 (3.5)	4	0.67
MW-5	<1.0	<1.0	70	NS (93)	120
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (2.0)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (3.7)	<5.0 (4.0)	<20 (4.5)	4.9	<20 (4.9)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	<100 (2.4)	<200 (2.4)	<500 (2.4)	<200 (2.4)	<200 (2.4)
MW-4	2.4	4.6	2	2.4	3.3
MW-5	110	85	130	130	19
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (2.3)	<20 (2.4)	<50 (2.7)	<5.0 (2.9)	3.1
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

PCE Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (4.9)	<20 (4.9)
MW-2	<1.0	<1.0
MW-3	<500 (2.4)	<200 (2.4)
MW-4	3.2	4.2
MW-5	110	120
MW-6R	<1.0	<1.0
MW-7	<10 (3.1)	<10 (3.1)
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	60	29	24	8.9	8
MW-2	<2.0	2	NS (2.0)	<2.0	<2.0
MW-3	60	<2.0	NS (58)	87	2,180
MW-4	7.4	<2.0	NS (2.1)	NS (2.2)	2.2
MW-5	NA	1,970	NS (1,451)	1,190	3,380
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	4,150	9.6	3,690
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	3.6	3.5
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	14	5	<2.0	4.2	1.5
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	1,610	3,870	51	185	197
MW-4	<2.0	<2.0	<2.0	1.6	<2.0
MW-5	2,360	1,560	1,630	1,640	2,540
MW-6R	NA	NA	NA	NA	NA
MW-7	7,700	1,030	NS (3,152)	5,250	5,900
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	2.8	NS (2.4)	<2.0	<2.0	<2.0
MW-10	1.2	3.3	<2.0	2.4	1.4
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	2.6	NS (2.3)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	9.1	2.4	<1.0	1.5	14
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	181	521	185	77	484
MW-4	<5.0 (2.5)	3	<1.0	<1.0	4.4
MW-5	1,870	1,530	878	722	690
MW-6R	NA	NA	NA	NA	NA
MW-7	3,090	5,390	4,640	3,220	5,850
MW-8	40	<5.0	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	12
MW-10	1	1.4	<1.0	1.1	24
MW-11	<5.0 (1.2)	0.44	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	2.1	2.2	1.7	NS (1.6)	NS (1.5)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0	<20 (3.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	2,400	1,000	2,900	5,600	1,400
MW-4	2.2	<1.0	19	<1.0	5
MW-5	<20	560	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	1,300	250	38	<10	<10 (5.5)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.4)	NS (1.3)	NS (1.2)	NS (1.1)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (3.9)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	1,000	1,600	<2,500 (808)	18	<200 (18)
MW-4	<1.0	3.3	<5.0 (4.1)	4.9	1.3
MW-5	<1.0	<1.0	244	NS (211)	170
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (3.6)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (4.6)	<5.0	<20 (5.8)	6.3	<20 (6.3)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	<100 (18)	<200 (18)	<500 (18)	<200 (18)	<200 (18)
MW-4	5.3	5.9	4.7	4.6	5.3
MW-5	190	230	220	250	160
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (4.3)	<20 (4.7)	<50 (5.3)	<5.0	6.4
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

TCE Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (6.3)	<20 (6.3)
MW-2	<1.0	<1.0
MW-3	<500 (18)	<200 (18)
MW-4	4.5	6.9
MW-5	170	210
MW-6R	<1.0	<1.0
MW-7	<10 (4.7)	0.69
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	18,000	17,600	10,600	8,580	5,090
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	660	2,540	NS (1,895)	1,570	6,800
MW-4	4.5	<2.0	NS (3.2)	NS (3.7)	4.3
MW-5	NA	<2.0	NS (424)	636	1,280
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	5,880	10,900	4,140
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	2.3	5.5
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	6,550	8,820	6,130	12,300	5,200
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	20,600	17,700	2,760	1,600	1,920
MW-4	<2.0	<2.0	1.2	2.3	<2.0
MW-5	1,290	978	1,110	1,120	2,000
MW-6R	NA	NA	NA	NA	NA
MW-7	8,480	2,480	NS (4,581)	6,660	6,500
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	4.3	1.7	3.4	1.5	2
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	37	12	NS (7.4)
MW-14	NA	NA	<2.0	<2.0	NS (1.5)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	8,200	12,400	5,280	7,530	3,120
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	2,060	3,500	2,840	2,450	13,100
MW-4	<5.0 (2.2)	2.5	<1.0	1.2	10
MW-5	1,860	3,010	2,850	2,620	3,060
MW-6R	NA	NA	NA	NA	NA
MW-7	2,690	5,290	2,930	2,480	5,810
MW-8	21	<5.0	<1.0	<1.0	12
MW-9	<5.0 (1.1)	0.28	<1.0	<1.0	7.7
MW-10	1	1.9	<1.0	1.3	20
MW-11	<5.0 (1.2)	0.32	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	3	2.7	1.7	NS	NS
MW-14	<5.0 (1.0)	0.54	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	700	4,800	2,200	2,800	6,500
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	29,000	21,000	46,000	42,000	45,000
MW-4	2.7	<1.0	11	<1.0	5.8
MW-5	3,500	2,200	2,800	2,400	2,000
MW-6R	NA	NA	NA	NA	NA
MW-7	21,000	3,900	7,300	550	340
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS	NS	NS	NS	NS
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	5,300	1,200	1,650	734	1,800
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	45,000	41,000	46,100	9,460	11,000
MW-4	<1.0	2.6	<5.0 (3.7)	4.8	1.1
MW-5	2,100	1,600	750	NS (773)	800
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	870	850	1,890	200	640
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS	NS	NS	NS	NS
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	1,100	420	890	1,400	1,000
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	7,300	16,000	24,000	15,000	24,000
MW-4	6.8	6.8	5.9	4.1	7.2
MW-5	490	280	300	320	450
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	1,100	1,700	3,100	440	810
MW-8	<1.0	<1.0	<1.0	<1.0	2.5
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	0.97
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS	NS	NS	NS	NS
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

cis-1,2-DCE Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	670	1,700
MW-2	<1.0	<1.0
MW-3	30,000	24,000
MW-4	6.6	8.7
MW-5	320	370
MW-6R	<1.0	<1.0
MW-7	560	190
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS	NS
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	60	361	78	54	24
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	14	40	NS (15)	<2.0	123
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	6	NS (7.1)	7.6	22
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	69	54	46
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	80	48	15	153	49
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	240	190	88	53	35
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	21	24	16	14	21
MW-6R	NA	NA	NA	NA	NA
MW-7	103	62	NS (80)	97	150
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	58	133	<1.0	32	14
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	31	19	35	36	140
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	26	26	17	20	20
MW-6R	NA	NA	NA	NA	NA
MW-7	35	44	<1.0	16	24
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0	22	<1.0	15	28
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	220	170	300	370	320
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	24	16	18	15	14
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (16)	<20 (8.7)	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	21	5.6	<100 (5.0)	4.3	<20 (9.6)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	270	320	<2,500 (249)	179	85
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	10	9.2	<25 (9.2)	NS (9.2)	9.2
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.3)	1.6	<5.0 (3.8)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	11	2	<20 (3.6)	4.8	<20 (5.7)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	53	170	270	120	250
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	6.6	2.6	3.4	2.9	3.9
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (4.4)	<20 (4.8)	<50 (5.4)	<5.0	6.3
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

trans-1,2-DCE Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (6.4)	8.1
MW-2	<1.0	<1.0
MW-3	260	210
MW-4	<1.0	<1.0
MW-5	2.7	3.7
MW-6R	<1.0	<1.0
MW-7	4.2	0.71
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002	Sep. 2002
MW-1	26	68	27	<2.0	12	19
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-3	40	247	NS (194)	167	1,220	2,560
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0	<2.0
MW-5	NA	2.9	NS (3.3)	3.5	5	5.5
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	NA	NA	2.9	24	12	22
MW-8	NA	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0	<2.0
MW-10	NA	NA	NA	<2.0	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0	NS (2.0)
MW-12	NA	NA	NA	NA	<2.0	<2.0
MW-13	NA	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004	Mar. 2005	Sep. 2005
MW-1	20	1.3	25	18	16	18
MW-2	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0
MW-3	2,740	176	480	270	189	186
MW-4	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0
MW-5	<2.0	2.6	4.4	5.1	6	7.9
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	5.1	NS (6.5)	7.9	12	7.5	13
MW-8	NA	NA	<2.0	<2.0	<5.0	<5.0
MW-9	NS (2.0)	<2.0	<2.0	<2.0	<5.0	<5.0
MW-10	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0
MW-11	NS (2.0)	<2.0	<2.0	<2.0	<5.0	<5.0
MW-12	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0
MW-13	NA	<2.0	<2.0	NS (3.5)	<5.0	<5.0
MW-14	NA	<2.0	<2.0	NS (3.5)	<5.0	<5.0
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Mar. 2006	Sep. 2006	Mar. 2007	Sep. 2007	Mar. 2008	Sep. 2008
MW-1	<1.0	18	14	<5.0	<20 (3.0)	<1.0
MW-2	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	195	164	954	2,300	1,700	3,000
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<1.0	8.2	<10 (6.4)	<20 (4.6)	<10 (2.8)	<1.0
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	<1.0	8.6	15	<100 (10)	<20 (5.8)	<1.0
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-12	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Mar. 2009	Sep. 2009	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014
MW-1	5.3	<20 (3.1)	<1.0	2	<100 (1.9)	1.8
MW-2	NS (1.0)	NS (1.0)	<1.0	<1.0	<5.0	<1.0
MW-3	3,800	2,500	2,400	2,100	<2,500 (1,357)	616
MW-4	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
MW-5	<10 (2.6)	<10 (4.3)	5.9	<1.0	<25 (2.2)	NS (3.5)
MW-6R	NA	NA	NA	NA	<5.0	<1.0
MW-7	<10 (1.0)	<10 (1.0)	<1.0	<1.0	<100 (1.0)	<1.0
MW-8	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0
MW-11	NS (1.0)	<1.0	NS (1.7)	NS (2.3)	<5.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	<1.0	NS (1.7)	NS (2.3)	<5.0	<1.0
MW-15	NA	NA	NA	NA	<5.0	<1.0
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Feb. 2017	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<20 (4.0)	<10 (4.6)	<5.0	<20 (5.0)	<10 (5.0)	<20 (5.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	420	330	690	950	540	840
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<5.0	<10 (6.0)	6.6	1.7	<5.0	<5.0
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<5.0	<20 (5.0)	<20 (5.0)	<50 (5.0)	<5.0	<5.0
MW-8	NS (1.0)	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	NA	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCE Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (5.0)	<20 (5.0)
MW-2	<1.0	<1.0
MW-3	990	760
MW-4	<1.0	<1.0
MW-5	<5.0	2.4
MW-6R	<1.0	<1.0
MW-7	<10 (3.8)	<1.0
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002	Sep. 2002
MW-1	49	<2.0	105	76	29	65
MW-2	<2.0 (1.0)	<2.0 (1.0)	NS (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)
MW-3	63	325	NS (110)	<2.0	1,420	1,260
MW-4	<2.0 (1.0)	<2.0 (1.0)	NS (1.0)	NS (1.0)	<2.0 (1.0)	<2.0 (1.0)
MW-5	NA	<2.0	NS (6.7)	9.1	8	7.5
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	NA	NA	190	69	240	294
MW-8	NA	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0 (1.0)	<2.0 (1.0)
MW-10	NA	NA	NA	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)
MW-11	NA	NA	NA	NA	<2.0 (1.0)	NS (1.0)
MW-12	NA	NA	NA	NA	<2.0 (1.0)	<2.0 (1.0)
MW-13	NA	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004	Mar. 2005	Sep. 2005
MW-1	110	5.8	120	77	86	112
MW-2	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-3	1,810	136	195	154	99	63
MW-4	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-5	1.2	2.6	7.9	7.3	7	7
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	103	NS (373)	641	137	104	156
MW-8	NA	NA	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-9	NS (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-10	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-11	NS (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-12	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<2.0 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-13	NA	<2.0 (1.0)	<2.0 (1.0)	NS (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-14	NA	<2.0 (1.0)	<2.0 (1.0)	NS (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Mar. 2006	Sep. 2006	Mar. 2007	Sep. 2007	Mar. 2008	Sep. 2008
MW-1	75	104	59	19	86	32
MW-2	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	154	259	817	1,400	1,100	1,600
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	7.3	9.3	12	79	43	160
MW-6R	NA	NA	NA	NA	NA	NA
MW-7	120	81	132	350	170	400
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-12	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Mar. 2009	Sep. 2009	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014
MW-1	98	150	170	28	<100 (25)	22
MW-2	NS (1.0)	NS (1.0)	<1.0	<1.0	<5.0 (1.0)	<1.0
MW-3	1,700	710	1,700	2,200	<2,500 (1,454)	709
MW-4	<1.0	<1.0	<1.0	<1.0	<5.0 (1.0)	<1.0
MW-5	<10	480	9.2	81	<25	NS (17)
MW-6R	NA	NA	NA	NA	<5.0 (1.0)	<1.0
MW-7	340	450	730	140	472	319
MW-8	<1.0	<1.0	<1.0	<1.0	<5.0 (1.0)	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<5.0 (1.0)	<1.0
MW-11	NS (1.0)	<1.0	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	<1.0	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0
MW-15	NA	NA	NA	NA	<5.0 (1.0)	<1.0
MW-16	NA	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Feb. 2017	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	67	58	8.4	56	33	38
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	700	520	1,200	2,000	900	1,800
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	6.6	6.7	3.4	5.7	3.5	9.1
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	200	710	460	510	200	120
MW-8	NS (1.0)	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	NA	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Vinyl Chloride Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	24	64
MW-2	<1.0	<1.0
MW-3	1,700	1,400
MW-4	<1.0	<1.0
MW-5	5.1	8.8
MW-6R	<1.0	<1.0
MW-7	110	21
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	20	<2.0	NS (53)	78	727
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.4)	2.5	1.2
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	<2.0	<2.0	7.7
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	12	<2.0	<2.0	<2.0	<2.0
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	231	1,670	105	144	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	<2.0	<2.0	1.6	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	12	<2.0	NS (2.0)	<2.0	<2.0
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	90	<5.0	73	22	407
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	3.9	<5.0 (2.4)	<1.0	3.2	4.9
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0 (1.0)	<20 (1.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	1,200	690	3,200	4,200	3,800
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.0)	<10 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (3.6)	<20 (2.3)	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (1.0)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	3,100	2,700	2,860	88	<200 (88)
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	<1.0	<1.0	<25 (1.3)	NS (1.6)	<5.0 (1.9)
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (1.0)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (1.0)	<5.0 (1.0)	<20 (1.0)	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	<100 (88)	<200 (88)	<500 (88)	<200 (88)	<200 (88)
MW-4	0.84	0.99	0.67	0.67	0.81
MW-5	<10 (2.0)	2.1	1	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (1.0)	<20 (1.0)	<50 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,2-TCA Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0
MW-3	<500 (88)	<200 (88)
MW-4	0.61	<1.0
MW-5	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0
MW-7	<10 (1.0)	<1.0 (1.0)
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	20	383	NS (130)	<2.0	1,740
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.0)	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	<2.0	<2.0	<2.0
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	451	4,600	145	316	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	10	<2.0	NS (2.0)	<2.0	<2.0
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	102	<5.0	50	28	734
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	1.2
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0 (1.0)	<20 (1.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	2,600	1,700	2,900	4,400	2,400
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.0)	<10 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (1.2)	<20 (1.1)	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (1.0)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	2,400	1,400	<2,500 (710)	20	<200 (20)
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	<1.0	<1.0	<25 (1.0)	NS (1.0)	<5.0 (1.0)
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (1.0)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (1.0)	<5.0 (1.0)	<20 (1.0)	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	<100 (20)	<200 (20)	<500 (20)	<200 (20)	<20
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (1.0)	<5.0 (1.0)	<1.0	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (1.0)	<20 (1.0)	<50 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1,1-TCA Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0
MW-3	<500 (20)	<200 (20)
MW-4	<1.0	<1.0
MW-5	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0
MW-7	<10 (1.0)	<1.0 (1.0)
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	4.2	<2.0	2.3	1.9	4.5
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	7.8	<2.0	NS (8.1)	11	57
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.0)	<2.0	1.2
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	<2.0	2	<2.0
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	1.9	1	<2.0	2.2	<2.0
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	26	69	17	5.7	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	7.3	<5.0	12	12	32
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0 (1.0)	<20 (1.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	<100 (33)	34	<1.0	<200 (1.0)	<200 (1.0)
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.0)	<10 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (1.0)	<20 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (1.0)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	<1.0	<1.0	<2,500 (14)	28	<200 (40)
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	<1.0	<1.0	<25 (0.94)	NS (0.88)	<5.0 (0.80)
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<2.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (1.0)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<2.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (1.0)	<5.0 (1.0)	<20 (1.0)	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	43	<200 (55)	<500 (71)	<200 (83)	99
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (0.78)	<5.0 (0.77)	0.75	<5.0 (1.5)	2.6
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (1.0)	<20 (1.0)	<50 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,2-DCA Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0
MW-3	<500 (99)	100
MW-4	<1.0	<1.0
MW-5	<5.0 (2.6)	<5.0 (2.6)
MW-6R	<1.0	<1.0
MW-7	<10 (1.0)	<1.0
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	<2.0	<2.0	2.2	<2.0	<2.0
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	127	460	NS (243)	133	1,900
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	6.9	NS (5.5)	4.8	1.9
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	<2.0	<2.0	<2.0
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	<2.0	1.5	1.3	153	<2.0
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	3,040	3,060	214	486	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	1.6	<2.0	<2.0	2.3	4.4
MW-6R	NA	NA	NA	NA	NA
MW-7	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	7.4
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	208	<5.0	339	235	1,200
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	<5.0 (3.3)	<5.0 (2.1)	<1.0	4.2	4.4
MW-6R	NA	NA	NA	NA	NA
MW-7	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0	<20 (3.0)	<1.0	<2.0	<20 (1.5)
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	2,400	1,800	3,900	4,100	4,000
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (3.3)	<10 (2.1)	<1.0	<10 (2.8)	<10 (4.5)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (1.0)	<20 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	<1.0	<1.0	<100 (1.0)	<1.0	<20 (1.0)
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	3,800	3,900	4,140	908	890
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	6.3	<1.0	<25 (1.8)	NS (2.7)	3.7
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	<1.0	<1.0	<100 (1.0)	<1.0	<5.0 (1.0)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	<10 (1.0)	<5.0 (1.0)	<20 (1.0)	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	680	1,200	1,800	1,100	1,500
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (5.5)	6.6	5.3	4.6	7.6
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (1.0)	<20 (1.0)	<50 (1.0)	<5.0 (1.0)	<5.0 (1.0)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

1,1-DCA Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (1.0)	<20 (1.0)
MW-2	<1.0	<1.0
MW-3	1,800	1,500
MW-4	<1.0	<1.0
MW-5	2.5	4.7
MW-6R	<1.0	<1.0
MW-7	<10 (1.0)	<1.0
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	1,050	979	436	396	317
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	<2.0	7.9	NS (4.9)	3.3	121
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.0)	<2.0	1.6
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	69	446	70
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	344	265	19	766	422
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	228	253	4.5	<2.0	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	116	19	NS (67)	114	57
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	2.5	<2.0	<2.0
MW-13	NA	NA	2.5	<2.0	NS (2.0)
MW-14	NA	NA	<2.0	11	NS (8.2)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	264	524	110	209	26
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	<5.0 (1.9)	1.8	<1.0	3.9	68
MW-4	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-5	<5.0 (1.1)	0.25	<1.0	<1.0	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	35	59	<1.0	23	39
MW-8	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	<1.0
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	2	<5.0 (1.5)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0	<5.0 (3.0)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	<5.0	64	28	18	69
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	220	170	400	520	380
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.0)	<10 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	<100 (35)	<20	27	<10	25
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	20	2.5	<100 (5.1)	7.8	15
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	390	350	<2,500 (213)	77	<200 (100)
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	<1.0	<1.0	<25 (1.0)	NS (1.0)	<5.0 (1.0)
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	33	7.2	<100 (5.0)	2.8	<5.0 (2.8)
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	5	<5.0	<20 (5.0)	<10 (5.0)	<20 (5.0)
MW-2	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	<100	110	<500 (102)	97	150
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (1.0)	<5.0 (1.0)	<1.0	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	<20 (2.8)	<20 (2.8)	<50 (2.8)	<5.0 (2.8)	<5.0 (2.8)
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	0.53
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Toluene Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	<10 (5.0)	<20 (5.0)
MW-2	<1.0	<1.0
MW-3	220	190
MW-4	<1.0	<1.0
MW-5	<5.0 (1.0)	<5.0 (1.0)
MW-6R	<1.0	<1.0
MW-7	<10 (2.8)	<10 (2.8)
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	3.3	8.2
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	1,950	1,890	1,050	854	635
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	250	21	NS (14)	10	386
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.0)	<2.0	25
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	1,020	1,010	1,580
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	1,900	938	441	1,910	680
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	900	669	13	1.3	<2.0
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	1.6	<2.0	<2.0	<2.0	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	1,900	356	NS (1,278)	2,190	2,140
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	2	1.5	<2.0	<2.0	<2.0
MW-13	NA	NA	<2.0	2.2	NS (1.9)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	820	1,380	520	922	159
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	4	4.9	<1.0	13	339
MW-4	<5.0 (1.3)	0.66	<1.0	<1.0	<1.0
MW-5	1.5	3	<1.0	<1.0	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	1,110	1,350	1,020	625	1,240
MW-8	9.1	<5.0	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	1.9
MW-10	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	3.2
MW-11	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.6)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	13	460	94	270	550
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	820	580	1,200	1,300	920
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.0)	<10 (1.0)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	1,900	340	810	200	750
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	450	45	<100 (39)	33	81
MW-2	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-3	1,100	920	<2,500 (558)	196	130
MW-4	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-5	<1.0	<1.0	<25 (1.0)	NS (1.0)	<5.0 (1.0)
MW-6R	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-7	1,300	210	431	104	84
MW-8	<1.0	<1.0	<5.0 (1.0)	<1.0	NS (1.0)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<5.0 (1.0)	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	<5.0 (1.0)	<1.0	<1.0
MW-15	NA	NA	<5.0 (1.0)	<1.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	10	<5.0	33	32	39
MW-2	0.46	<1.0	<1.0	<1.0	<1.0
MW-3	90	330	530	310	490
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (1.0)	<5.0 (1.0)	<1.0	<5.0	17
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	130	100	200	79	37
MW-8	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ethylbenzene Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	24	97
MW-2	<1.0	<1.0
MW-3	820	520
MW-4	<1.0	<1.0
MW-5	<5.0	2.7
MW-6R	<1.0	<1.0
MW-7	47	7.4
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Sep. 1999	Mar. 2000	Mar. 2001	Sep. 2001	Mar. 2002
MW-1	8,260	7,820	4,260	2,720	2,680
MW-2	<2.0	<2.0	NS (2.0)	<2.0	<2.0
MW-3	1,480	69	NS (64)	62	1,530
MW-4	<2.0	<2.0	NS (2.0)	NS (2.0)	<2.0
MW-5	NA	<2.0	NS (2.0)	<2.0	145
MW-6R	NA	NA	NA	NA	NA
MW-7	NA	NA	3,430	3,016	8,000
MW-8	NA	NA	NA	NA	NA
MW-9	NA	NA	NA	NA	<2.0
MW-10	NA	NA	NA	<2.0	<2.0
MW-11	NA	NA	NA	NA	<2.0
MW-12	NA	NA	NA	NA	<2.0
MW-13	NA	NA	NA	NA	NA
MW-14	NA	NA	NA	NA	NA
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Sep. 2002	Mar. 2003	Sep. 2003	Mar. 2004	Sep. 2004
MW-1	9,870	4,040	2,193	9,220	3,220
MW-2	<2.0	<2.0	<2.0	<2.0	<2.0
MW-3	3,828	2,912	60	8.4	2
MW-4	<2.0	<2.0	<2.0	<2.0	<2.0
MW-5	3.3	<2.0	<2.0	3.5	<2.0
MW-6R	NA	NA	NA	NA	NA
MW-7	10,950	1,606	NS (5,710)	9,770	9,000
MW-8	NA	NA	NA	<2.0	<2.0
MW-9	<2.0	NS (2.0)	<2.0	<2.0	<2.0
MW-10	<2.0	<2.0	<2.0	<2.0	<2.0
MW-11	NS (2.0)	NS (2.0)	<2.0	<2.0	<2.0
MW-12	<2.0	<2.0	1.9	<2.0	<2.0
MW-13	NA	NA	<2.0	<2.0	NS (1.7)
MW-14	NA	NA	<2.0	<2.0	NS (1.7)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Mar. 2005	Sep. 2005	Mar. 2006	Sep. 2006	Mar. 2007
MW-1	3,940	6,580	2,430	3,910	736
MW-2	<5.0 (1.7)	<5.0 (1.3)	<1.0	NS (1.0)	NS (1.0)
MW-3	43	43	16	72	1,400
MW-4	<5.0 (2.2)	2.5	<1.0	<1.0	3.3
MW-5	6.4	13	<1.0	1.5	<10 (1.3)
MW-6R	NA	NA	NA	NA	NA
MW-7	4,170	5,440	4,040	2,350	4,650
MW-8	33	<5.0	<1.0	<1.0	<1.0
MW-9	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	7.6
MW-10	<5.0 (1.2)	0.39	<1.0	<1.0	12
MW-11	<5.0 (1.2)	0.36	<1.0	NS (1.0)	NS (1.0)
MW-12	<5.0 (1.7)	<5.0 (1.3)	<1.0	<1.0	NS (1.0)
MW-13	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-14	<5.0 (1.5)	<5.0 (1.2)	<1.0	NS (1.0)	NS (1.0)
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Sep. 2007	Mar. 2008	Sep. 2008	Mar. 2009	Sep. 2009
MW-1	5.2	1,900	460	1,000	2,300
MW-2	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-3	3,300	2,300	4,500	4,800	3,600
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<20 (1.2)	<10 (1.1)	<1.0	<10 (1.0)	<10 (1.0)
MW-6R	NA	NA	NA	NA	NA
MW-7	7,300	1,500	3,400	790	3,300
MW-8	<1.0	<1.0	1.9	<1.0	<1.0
MW-9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	<1.0
MW-15	NA	NA	NA	NA	NA
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Mar. 2010	Sep. 2010	Sep. 2012	Sep. 2014	Feb. 2017
MW-1	1,900	160	403	99	380
MW-2	<1.0	<1.0	<15 (1.5)	<2.0	<1.0
MW-3	4,600	3,600	<7,500 (2,208)	817	530
MW-4	<1.0	<1.0	<15 (1.5)	<2.0	<1.0
MW-5	<1.0	<1.0	<75 (1.0)	NS (1.0)	<5.0 (1.0)
MW-6R	NA	NA	<15 (2.0)	<2.0	<1.0
MW-7	5,700	870	1,720	373	320
MW-8	<1.0	<1.0	<15 (1.5)	<2.0	NS (1.2)
MW-9	<1.0	<1.0	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<15 (1.5)	<2.0	<1.0
MW-11	NS (1.1)	NS (1.2)	<15 (1.6)	<2.0	<1.0
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	NS (1.1)	NS (1.2)	<15 (1.6)	<2.0	<1.0
MW-15	NA	NA	<15 (2.0)	<2.0	<1.0
MW-16	NA	NA	NA	NA	NA
MW-17	NA	NA	NA	NA	NA

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Oct. 2017	Mar. 2018	Oct. 2018	Mar. 2019	Oct. 2019
MW-1	53	12	140	200	97
MW-2	1.4	<1.0	<1.0	<1.0	<1.0
MW-3	320	1,300	2,100	1,200	2,000
MW-4	<1.0	<1.0	<1.0	<1.0	<1.0
MW-5	<10 (1.0)	<5.0 (1.0)	<1.0	<5.0 (1.8)	2.9
MW-6R	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	420	310	960	210	140
MW-8	<1.0	<1.1	<1.1	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	<1.0	<1.0	<1.0	<1.0	NS (1.0)
MW-12	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0	<1.0	<1.0	<1.0
MW-15	<1.0	<1.0	<1.0	<1.0	<1.0
MW-16	<1.0	<1.0	<1.0	<1.0	<1.0
MW-17	NA	NA	NA	NA	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Xylenes Upper Shallow Input Data

Well ID	Apr. 2020	Jun. 2021
MW-1	110	400
MW-2	<1.0	<1.0
MW-3	3,300	2,300
MW-4	<1.0	<1.0
MW-5	<5.0 (2.9)	<5.0 (2.9)
MW-6R	<1.0	<1.0
MW-7	140	24
MW-8	<1.0	<1.0
MW-9	NS (1.0)	NS (1.0)
MW-10	<1.0	<1.0
MW-11	<1.0	<1.0
MW-12	NS (1.0)	NS (1.0)
MW-13	NS (1.0)	NS (1.0)
MW-14	<1.0	<1.0
MW-15	<1.0	<1.0
MW-16	<1.0	<1.0
MW-17	<1.0	<1.0

Notes:

All concentrations in µg/l

NA: Well not installed or abandoned.

<5.00: Analyte not detected. Detection limit used.

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS (21.0): Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

Interpolated between two sampling events.

Well not sampled. Extrapolated from a sampling event.

Well not installed.

Ricker Method® Plume Stability Characteristics PCE Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	17.1	264	36.8
Mar-2000	11.6	78	7.4
Mar-2001	18.9	215	33.2
Sep-2001	19.7	68	10.9
Mar-2002	19.5	134	21.4
Sep-2002	19.2	142	22.3
Mar-2003	19.4	117	18.4
Sep-2003	17.7	75	10.8
Mar-2004	17.9	135	19.7
Sep-2004	17.4	142	20.1
Mar-2005	17.9	151	22.1
Sep-2005	15.9	114	14.7
Mar-2006	14.4	56	6.6
Sep-2006	14.1	56	6.5
Mar-2007	15.4	56	7.0
Sep-2007	13.2	25	2.7
Mar-2008	14.5	54	6.4
Sep-2008	8.7	80	5.7
Mar-2009	8.2	126	8.5
Sep-2009	7.9	44	2.9
Mar-2010	6.8	42	2.3
Sep-2010	7.6	50	3.1
Sep-2012	11.3	29	2.6
Sep-2014	6.2	15	0.7
Feb-2017	6.9	17	0.9
Oct-2017	6.8	16	0.9
Mar-2018	7.3	14	0.8
Oct-2018	7.2	17	1.0
Mar-2019	7.5	17	1.0
Oct-2019	4.6	8	0.3
Apr-2020	7.5	16	1.0
Jun-2021	7.9	16	1.1

Ricker Method® Plume Stability Characteristics TCE Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	15.8	27	3.4
Mar-2000	14.1	73	8.4
Mar-2001	17.6	153	22.0
Sep-2001	17.9	60	8.7
Mar-2002	17.7	317	45.8
Sep-2002	17.5	298	42.5
Mar-2003	17.5	315	44.8
Sep-2003	17.2	69	9.7
Mar-2004	16.5	109	14.7
Sep-2004	16.3	118	15.8
Mar-2005	17.3	121	17.0
Sep-2005	16.5	141	19.0
Mar-2006	14.6	77	9.2
Sep-2006	14.6	57	6.8
Mar-2007	16.4	169	22.7
Sep-2007	13.3	199	21.6
Mar-2008	14.9	124	15.0
Sep-2008	10.6	205	17.7
Mar-2009	9.5	325	25.2
Sep-2009	9.3	120	9.1
Mar-2010	7.6	96	6.0
Sep-2010	8.3	134	9.2
Sep-2012	12.8	70	7.3
Sep-2014	10.7	22	1.9
Feb-2017	10.7	19	1.7
Oct-2017	11.2	21	1.9
Mar-2018	11.5	23	2.2
Oct-2018	11.6	23	2.1
Mar-2019	11.7	24	2.3
Oct-2019	11.7	20	1.9
Apr-2020	11.5	20	1.9
Jun-2021	11.5	24	2.2

Ricker Method® Plume Stability Characteristics cis-1,2-DCE Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	16.4	1,144	153
Mar-2000	14.5	1,416	167
Mar-2001	17.3	1,448	204
Sep-2001	17.7	1,518	219
Mar-2002	17.9	1,616	235
Sep-2002	17.6	2,881	413
Mar-2003	17.4	2,566	364
Sep-2003	17.4	1,206	171
Mar-2004	17.3	1,441	203
Sep-2004	17.3	1,212	171
Mar-2005	17.2	1,293	181
Sep-2005	16.8	2,166	297
Mar-2006	16.4	1,390	186
Sep-2006	16.5	1,441	194
Mar-2007	17.7	2,447	354
Sep-2007	16.6	3,104	421
Mar-2008	16.4	3,087	412
Sep-2008	16.8	4,709	646
Mar-2009	16.4	3,488	467
Sep-2009	16.8	4,330	594
Mar-2010	16.4	4,161	556
Sep-2010	16.5	3,022	407
Sep-2012	16.3	1,526	203
Sep-2014	16.2	574	76
Feb-2017	15.9	662	86
Oct-2017	16.0	371	48
Mar-2018	15.8	408	53
Oct-2018	15.9	580	75
Mar-2019	15.8	475	61
Oct-2019	16.2	620	82
Apr-2020	15.8	626	81
Jun-2021	15.9	661	85.6

Ricker Method® Plume Stability Characteristics trans-1,2-DCE Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	12.8	17	1.8
Mar-2000	14.4	54	6.3
Mar-2001	13.6	21	2.4
Sep-2001	9.4	17	1.3
Mar-2002	15.5	30	3.8
Sep-2002	15.7	55	7.0
Mar-2003	15.7	43	5.5
Sep-2003	15.1	24	2.9
Mar-2004	14.5	36	4.2
Sep-2004	14.6	26	3.1
Mar-2005	14.4	22	2.6
Sep-2005	13.8	26	2.9
Mar-2006	8.9	11	0.8
Sep-2006	13.0	19	2.0
Mar-2007	13.0	30	3.2
Sep-2007	12.7	34	3.5
Mar-2008	12.9	33	3.5
Sep-2008	10.3	36	3.1
Mar-2009	12.3	46	4.6
Sep-2009	12.5	45	4.6
Mar-2010	12.0	39	3.8
Sep-2010	11.1	39	3.5
Sep-2012	10.1	24	2.0
Sep-2014	9.7	20	1.6
Feb-2017	10.2	15	1.2
Oct-2017	8.3	11	0.7
Mar-2018	5.4	18	0.8
Oct-2018	7.0	21	1.2
Mar-2019	6.5	14	0.8
Oct-2019	8.0	20	1.3
Apr-2020	7.5	21	1.3
Jun-2021	7.8	19	1.2

Ricker Method® Plume Stability Characteristics 1,1-DCE Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	11.9	17	1.7
Mar-2000	12.6	51	5.2
Mar-2001	11.2	34	3.1
Sep-2001	9.0	31	2.2
Mar-2002	11.9	104	10.1
Sep-2002	12.7	175	18.2
Mar-2003	11.2	188	17.1
Sep-2003	7.1	33	1.9
Mar-2004	11.3	62	5.7
Sep-2004	11.2	43	3.9
Mar-2005	12.9	32	3.3
Sep-2005	14.0	32	3.7
Mar-2006	5.7	36	1.7
Sep-2006	10.9	33	2.9
Mar-2007	11.1	97	8.8
Sep-2007	10.2	174	14.4
Mar-2008	9.0	145	10.6
Sep-2008	7.4	231	14.0
Mar-2009	9.2	255	19.2
Sep-2009	9.1	186	13.8
Mar-2010	8.6	180	12.6
Sep-2010	7.6	175	10.9
Sep-2012	8.9	85	6.2
Sep-2014	6.7	49	2.7
Feb-2017	7.6	38	2.3
Oct-2017	6.5	28	1.5
Mar-2018	7.4	39	2.4
Oct-2018	6.2	50	2.5
Mar-2019	6.8	35	2.0
Oct-2019	7.1	45	2.6
Apr-2020	7.2	49	2.9
Jun-2021	6.1	45	2.2

Ricker Method® Plume Stability Characteristics Vinyl Chloride Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	15.1	20	2.5
Mar-2000	12.1	30	3.0
Mar-2001	15.9	44	5.7
Sep-2001	13.7	15	1.7
Mar-2002	16.0	110	14.5
Sep-2002	16.1	115	15.1
Mar-2003	14.3	142	16.6
Sep-2003	14.3	24	2.8
Mar-2004	15.4	62	7.8
Sep-2004	15.3	40	5.0
Mar-2005	15.3	32	4.1
Sep-2005	15.3	31	3.9
Mar-2006	15.3	39	4.9
Sep-2006	15.6	52	6.6
Mar-2007	15.7	92	11.8
Sep-2007	16.8	130	17.9
Mar-2008	16.6	128	17.4
Sep-2008	17.1	163	22.9
Mar-2009	15.6	166	21.1
Sep-2009	17.6	170	24.4
Mar-2010	15.6	195	24.8
Sep-2010	16.9	171	23.5
Sep-2012	16.2	65	8.6
Sep-2014	15.9	41	5.4
Feb-2017	15.2	44	5.5
Oct-2017	15.0	33	4.0
Mar-2018	13.7	35	4.0
Oct-2018	14.9	58	7.1
Mar-2019	14.1	34	3.9
Oct-2019	15.3	51	6.4
Apr-2020	14.6	46	5.4
Jun-2021	15.4	46	5.8

Ricker Method® Plume Stability Characteristics Total Chloroethenes Upper Shallow			
Event	**Area (acres)**	**Average Concentration (nmol/L)**	**Mass Indicator (moles)**
Sep-1999	17.4	13,471	869
Mar-2000	19.1	12,911	913
Mar-2001	18.9	17,124	1,197
Sep-2001	20.2	14,951	1,120
Mar-2002	19.5	20,777	1,497
Sep-2002	19.5	33,074	2,381
Mar-2003	19.4	30,004	2,149
Sep-2003	18.1	13,642	914
Mar-2004	18.4	17,065	1,164
Sep-2004	18.2	14,624	986
Mar-2005	17.8	15,610	1,030
Sep-2005	17.1	24,674	1,563
Mar-2006	16.4	16,049	974
Sep-2006	16.5	16,820	1,025
Mar-2007	17.7	29,037	1,906
Sep-2007	16.8	36,588	2,279
Mar-2008	16.6	35,875	2,202
Sep-2008	17.2	52,746	3,366
Mar-2009	16.4	42,373	2,571
Sep-2009	17.6	47,496	3,099
Mar-2010	16.4	47,843	2,902
Sep-2010	16.9	35,108	2,192
Sep-2012	16.4	17,862	1,086
Sep-2014	16.4	6,995	425
Feb-2017	16.4	7,696	468
Oct-2017	16.3	4,573	276
Mar-2018	16.0	5,056	300
Oct-2018	16.1	7,237	432
Mar-2019	16.2	5,672	339
Oct-2019	16.5	7,482	456
Apr-2020	16.1	7,511	446
Jun-2021	16.2	7,852	470.1

Ricker Method® Plume Stability Characteristics 1,1,2-TCA Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	5.6	8.3	0.4
Mar-2000	0.0	<5.0	0.0
Mar-2001	7.1	14.1	0.8
Sep-2001	7.6	17.6	1.1
Mar-2002	9.2	71.8	5.4
Sep-2002	11.7	32.6	3.1
Mar-2003	9.3	131.2	9.9
Sep-2003	7.4	21.2	1.3
Mar-2004	7.9	25.4	1.6
Sep-2004	0.0	<5.0	0.0
Mar-2005	7.3	19.3	1.1
Sep-2005	0.0	<5.0	0.0
Mar-2006	5.6	17.6	0.8
Sep-2006	4.2	8.9	0.3
Mar-2007	7.5	51.6	3.2
Sep-2007	8.0	108.9	7.1
Mar-2008	7.6	74.3	4.6
Sep-2008	8.1	222.9	14.8
Mar-2009	8.7	268.2	18.9
Sep-2009	8.4	250.9	17.2
Mar-2010	8.1	217.8	14.4
Sep-2010	8.0	196.7	12.9
Sep-2012	7.6	116.0	7.2
Sep-2014	5.0	15.2	0.6
Feb-2017	5.1	15.1	0.6
Oct-2017	3.7	14.0	0.4
Mar-2018	3.8	14.0	0.4
Oct-2018	3.3	14.3	0.4
Mar-2019	3.3	14.3	0.4
Oct-2019	3.3	14.3	0.4
Apr-2020	3.3	14.3	0.4
Jun-2021	3.4	14	0.4

Ricker Method® Plume Stability Characteristics 1,1,1-TCA Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	5.6	8.3	0.4
Mar-2000	8.6	47.7	3.3
Mar-2001	7.9	24.0	1.5
Sep-2001	0.0	<5.0	0.0
Mar-2002	9.3	135.1	10.2
Sep-2002	9.6	51.1	4.0
Mar-2003	9.6	275.8	21.7
Sep-2003	7.9	25.6	1.6
Mar-2004	8.4	41.8	2.9
Sep-2004	0.0	<5.0	0.0
Mar-2005	7.1	20.9	1.2
Sep-2005	0.0	<5.0	0.0
Mar-2006	5.2	14.1	0.6
Sep-2006	4.4	10.1	0.4
Mar-2007	7.5	77.7	4.7
Sep-2007	8.1	191.4	12.6
Mar-2008	7.9	140.5	9.0
Sep-2008	8.1	207.3	13.7
Mar-2009	8.7	277.8	19.6
Sep-2009	8.2	178.8	12.0
Mar-2010	8.0	180.4	11.8
Sep-2010	7.7	122.2	7.7
Sep-2012	6.7	47.6	2.6
Sep-2014	2.3	8.1	0.1
Feb-2017	2.2	8.1	0.1
Oct-2017	1.5	8.0	0.1
Mar-2018	1.5	8.0	0.1
Oct-2018	1.5	8.0	0.1
Mar-2019	1.5	8.0	0.1
Oct-2019	1.5	8.0	0.1
Apr-2020	1.5	8.0	0.1
Jun-2021	1.5	8	0.1

Ricker Method® Plume Stability Characteristics 1,2-DCA Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	2.7	5.77	0.1
Mar-2000	0.0	<5.0	0.0
Mar-2001	1.6	5.89	0.1
Sep-2001	3.0	6.59	0.2
Mar-2002	7.6	14.55	0.9
Sep-2002	5.8	9.67	0.5
Mar-2003	6.6	16.62	0.9
Sep-2003	4.8	7.84	0.3
Mar-2004	0.2	5.22	0.01
Sep-2004	0.0	<5.0	0.0
Mar-2005	0.8	<5.0	0.0
Sep-2005	0.0	<5.0	0.0
Mar-2006	2.2	6.74	0.1
Sep-2006	2.3	6.83	0.1
Mar-2007	4.6	10.96	0.4
Sep-2007	4.7	11.13	0.4
Mar-2008	4.7	11.29	0.4
Sep-2008	0.0	<5.0	0.0
Mar-2009	0.0	<5.0	0.0
Sep-2009	0.0	<5.0	0.0
Mar-2010	0.0	<5.0	0.0
Sep-2010	0.0	<5.0	0.0
Sep-2012	1.5	7.17	0.1
Sep-2014	2.8	9.13	0.2
Feb-2017	4.2	10.55	0.4
Oct-2017	2.4	10.68	0.2
Mar-2018	2.7	11.74	0.3
Oct-2018	3.0	13.08	0.3
Mar-2019	3.5	13.72	0.4
Oct-2019	4.1	14.59	0.5
Apr-2020	4.1	14.60	0.5
Jun-2021	4.1	15	0.5

Ricker Method® Plume Stability Characteristics 1,1-DCA Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	8.4	23	1.6
Mar-2000	10.6	49	4.2
Mar-2001	10.0	33	2.7
Sep-2001	9.2	23	1.7
Mar-2002	9.3	144	10.9
Sep-2002	9.3	205	15.6
Mar-2003	9.3	206	15.6
Sep-2003	7.8	33	2.1
Mar-2004	12.1	68	6.7
Sep-2004	0.0	<5.0	0.0
Mar-2005	8.4	31	2.1
Sep-2005	0.0	<5.0	0.0
Mar-2006	6.9	46	2.6
Sep-2006	7.9	34	2.2
Mar-2007	10.7	98	8.5
Sep-2007	10.2	164	13.6
Mar-2008	9.2	138	10.4
Sep-2008	8.2	258	17.3
Mar-2009	9.4	252	19.3
Sep-2009	9.7	240	19.0
Mar-2010	9.9	225	18.2
Sep-2010	8.2	258	17.3
Sep-2012	8.0	148	9.7
Sep-2014	7.6	54	3.3
Feb-2017	7.9	53	3.4
Oct-2017	7.1	34	2.0
Mar-2018	7.8	45	2.9
Oct-2018	7.7	59	3.7
Mar-2019	7.1	45	2.6
Oct-2019	8.1	52	3.4
Apr-2020	6.6	65	3.5
Jun-2021	7.3	55	3.3

Ricker Method® Plume Stability Characteristics Total Chloroethanes Upper Shallow			
Event	**Area (acres)**	**Average Concentration (nmol/L)**	**Mass Indicator (moles)**
Sep-1999	8.37	339	11
Mar-2000	10.53	794	31
Mar-2001	9.91	565	21
Sep-2001	9.12	368	12
Mar-2002	9.85	2,968	108
Sep-2002	11.82	2,248	98
Mar-2003	9.59	5,193	184
Sep-2003	7.92	722	21
Mar-2004	12.03	1,043	46
Sep-2004	0.00	<5	0
Mar-2005	8.37	586	18
Sep-2005	0.00	<5	0
Mar-2006	6.90	683	17
Sep-2006	7.85	446	13
Mar-2007	10.62	1,738	68
Sep-2007	10.14	3,526	132
Mar-2008	9.16	2,846	96
Sep-2008	8.15	5,870	177
Mar-2009	9.35	6,397	221
Sep-2009	9.69	5,250	188
Mar-2010	9.84	4,765	173
Sep-2010	8.15	4,987	150
Sep-2012	7.96	2,664	78
Sep-2014	7.49	682	19
Feb-2017	7.83	686	20
Oct-2017	7.06	449	12
Mar-2018	7.76	569	16
Oct-2018	7.63	718	20
Mar-2019	7.04	597	16
Oct-2019	8.03	662	20
Apr-2020	6.55	829	20
Jun-2021	7.2	709	19.0

Ricker Method® Plume Stability Characteristics Toluene Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	10.6	98.5	8.5
Mar-2000	11.3	91.0	8.4
Mar-2001	9.9	41.1	3.3
Sep-2001	9.3	70.3	5.3
Mar-2002	13.1	49.7	5.3
Sep-2002	13.5	68.7	7.6
Mar-2003	13.4	56.6	6.2
Sep-2003	6.9	10.9	0.6
Mar-2004	7.8	46.9	3.0
Sep-2004	7.3	31.9	1.9
Mar-2005	6.1	24.7	1.2
Sep-2005	5.5	37.5	1.7
Mar-2006	2.7	14.2	0.3
Sep-2006	6.5	20.7	1.1
Mar-2007	9.9	22.0	1.8
Sep-2007	9.3	35.1	2.7
Mar-2008	10.6	38.0	3.3
Sep-2008	10.5	56.8	4.9
Mar-2009	10.2	61.5	5.1
Sep-2009	10.9	61.0	5.4
Mar-2010	10.4	54.8	4.6
Sep-2010	8.5	44.7	3.1
Sep-2012	7.5	21.9	1.3
Sep-2014	6.9	13.1	0.7
Feb-2017	7.9	15.2	1.0
Oct-2017	5.1	13.8	0.6
Mar-2018	5.2	14.4	0.6
Oct-2018	5.1	13.9	0.6
Mar-2019	5.0	13.6	0.6
Oct-2019	5.6	16.5	0.8
Apr-2020	6.0	19.7	1.0
Jun-2021	5.9	18	0.9

Ricker Method® Plume Stability Characteristics Ethylbenzene Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	15.4	224	28.1
Mar-2000	13.2	143	15.4
Mar-2001	12.4	125	12.7
Sep-2001	11.7	117	11.2
Mar-2002	16.0	163	21.2
Sep-2002	13.9	280	31.7
Mar-2003	13.9	160	18.1
Sep-2003	12.0	64	6.3
Mar-2004	7.7	160	10.0
Sep-2004	7.6	105	6.5
Mar-2005	8.8	84	6.0
Sep-2005	9.6	110	8.6
Mar-2006	5.9	80	3.8
Sep-2006	9.8	76	6.1
Mar-2007	11.2	112	10.2
Sep-2007	10.5	122	10.4
Mar-2008	11.6	141	13.3
Sep-2008	11.3	171	15.7
Mar-2009	11.6	181	17.1
Sep-2009	11.7	204	19.5
Mar-2010	11.7	230	22.0
Sep-2010	11.0	116	10.4
Sep-2012	10.4	44	3.8
Sep-2014	9.7	24	1.9
Feb-2017	9.9	24	1.9
Oct-2017	7.0	15	0.8
Mar-2018	7.4	23	1.4
Oct-2018	9.0	35	2.6
Mar-2019	10.3	27	2.3
Oct-2019	11.8	36	3.4
Apr-2020	10.4	40	3.4
Jun-2021	9.9	38	3.1

Ricker Method® Plume Stability Characteristics Xylene Upper Shallow			
Event	**Area (acres)**	**Average Concentration (µg/L)**	**Mass Indicator (lbs)**
Sep-1999	15.8	833	107.2
Mar-2000	14.0	449	51.1
Mar-2001	13.9	373	42.1
Sep-2001	13.8	296	33.3
Mar-2002	16.9	623	85.7
Sep-2002	14.7	1,102	132.1
Mar-2003	14.2	540	62.8
Sep-2003	13.7	215	24.0
Mar-2004	11.5	470	44.1
Sep-2004	8.4	329	22.4
Mar-2005	14.5	240	28.4
Sep-2005	14.8	342	41.2
Mar-2006	10.4	204	17.3
Sep-2006	11.8	245	23.7
Mar-2007	12.5	390	39.9
Sep-2007	10.5	310	26.6
Mar-2008	12.2	466	46.2
Sep-2008	12.0	529	52.0
Mar-2009	12.1	547	53.8
Sep-2009	12.2	676	67.1
Mar-2010	12.2	791	78.5
Sep-2010	11.6	353	33.5
Sep-2012	12.0	146	14.3
Sep-2014	11.6	64	6.1
Feb-2017	11.2	62	5.7
Oct-2017	9.1	33	2.4
Mar-2018	9.0	51	3.7
Oct-2018	10.2	90	7.5
Mar-2019	10.5	68	5.8
Oct-2019	10.7	78	6.8
Apr-2020	10.9	104	9.2
Jun-2021	11.0	101	9.1

Appendix I

Groundwater Plume Analytics® Presentation.pptx

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EarthCon Plume Analytics® Services

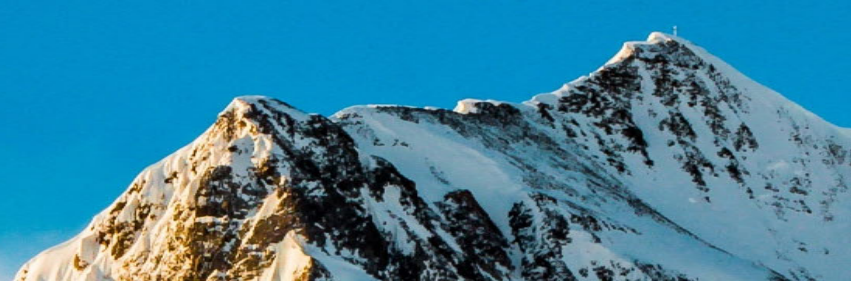
Former Ducane Facility

Blackville, SC

Prepared for Lennox International

October 14, 2021

Groundwater Plume Analytics® Services



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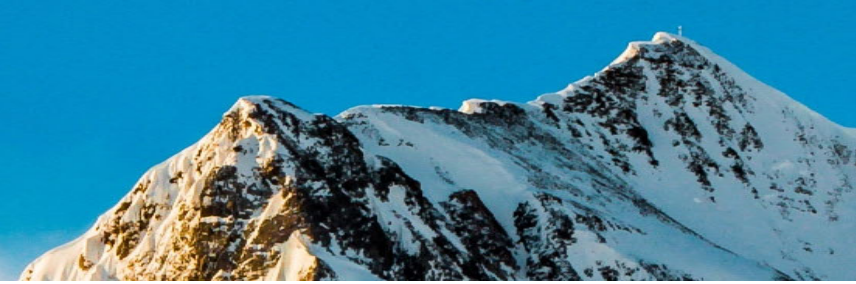
Groundwater Plume Analytics® Services



- PCE
- TCE
- Cis-1,2-DCE
- trans-1,2-DCE
- 1,1-DCE
- Vinyl Chloride
- Total Chloroethenes

- 1,1,2-TCA
- 1,1,1-TCA
- 1,2-DCA
- 1,1-DCA
- Total Chloroethanes

- Deep Fractional Charts

- Toluene
- Ethylbenzene
- Xylene

- Geochemical
- Groundwater Elevation

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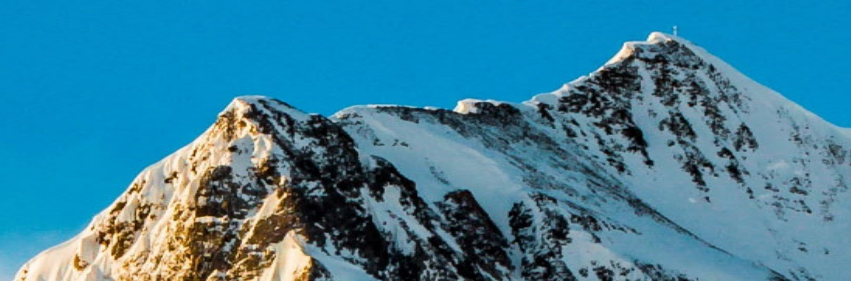
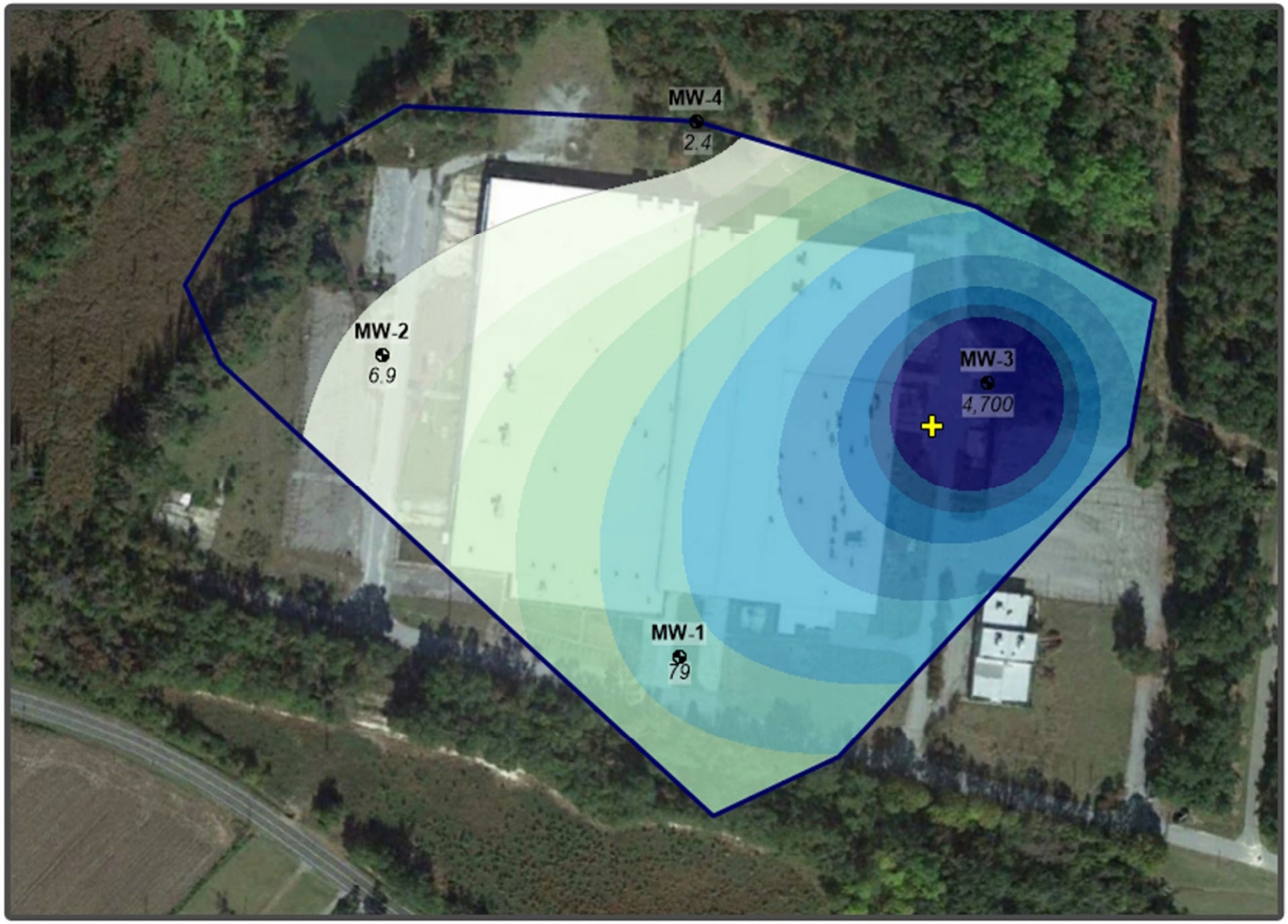


- DO
- ORP
- Ferrous Iron
- Methane
- Ethane
- Ethene
- Total Organic Carbon

EARTHCON®



PCE
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
50
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

N

MW-1 Monitoring Well

MW-5 Hanging Well

112 Concentration (µg/L)

NS (140) Well Not Sampled (Assigned Value Shown)

Plume Center of Mass

Plume Characteristics

Plume Area: **17.1 acres**
Plume Average Concentration: **264 µg/L**
Plume Mass Indicator: **36.8 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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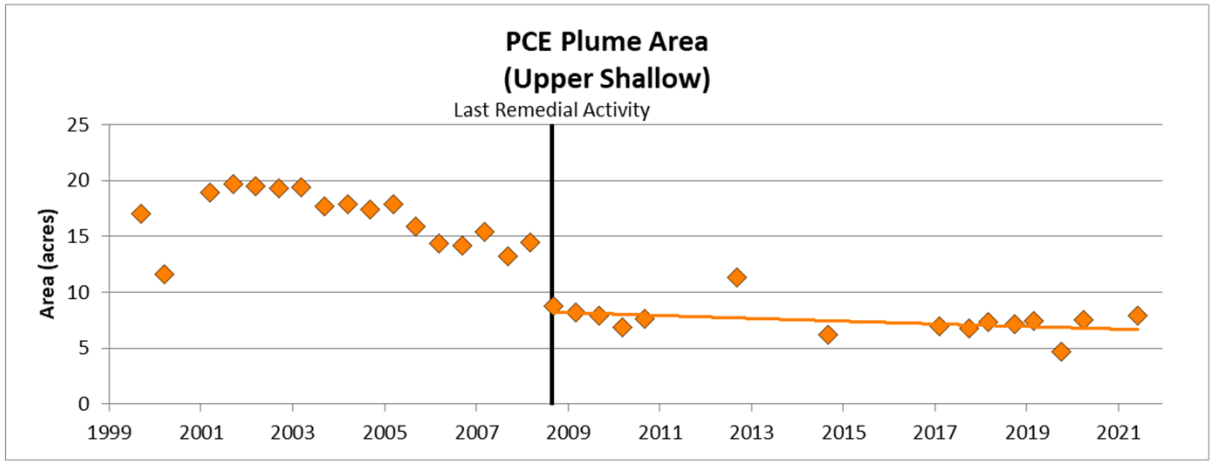
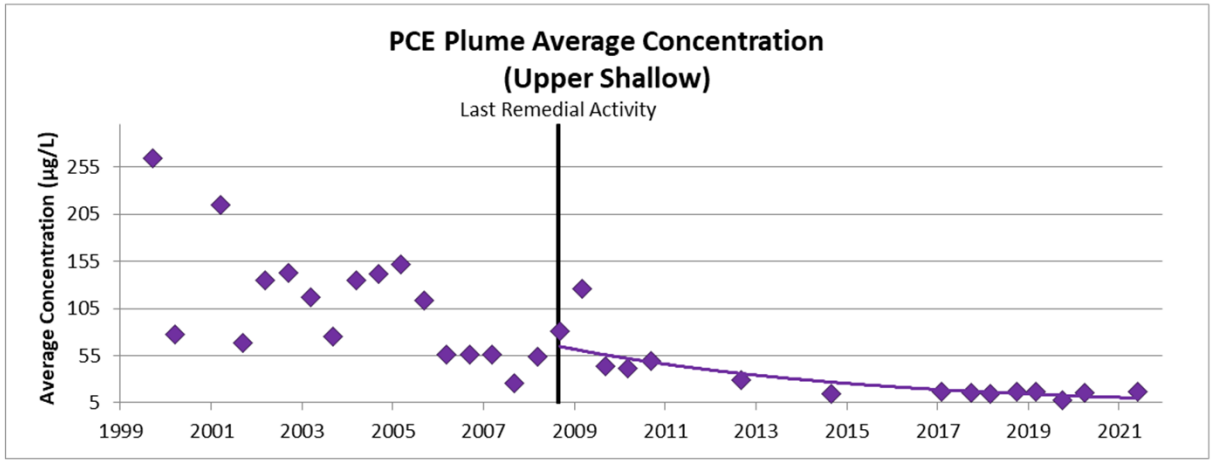
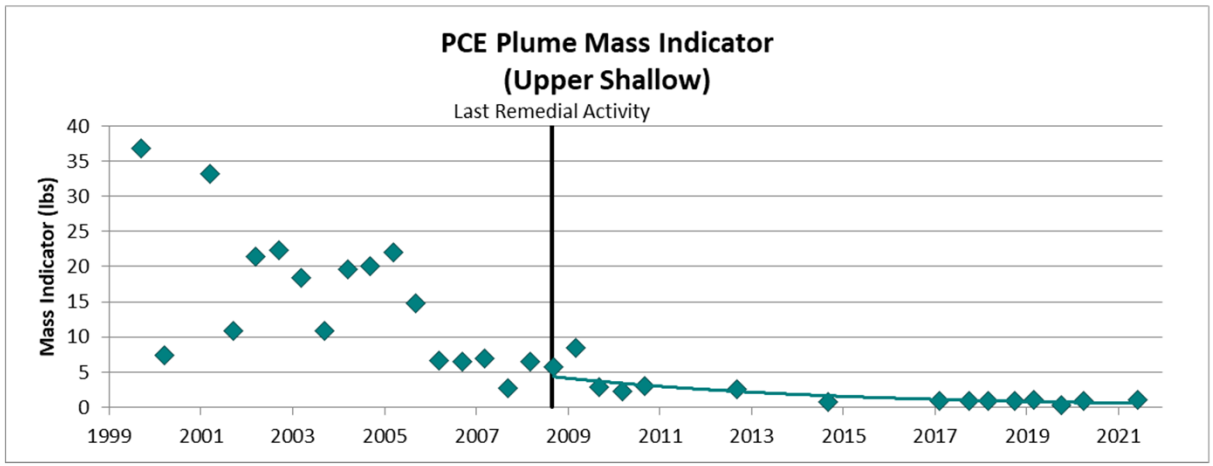


Sep-2008 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 87% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

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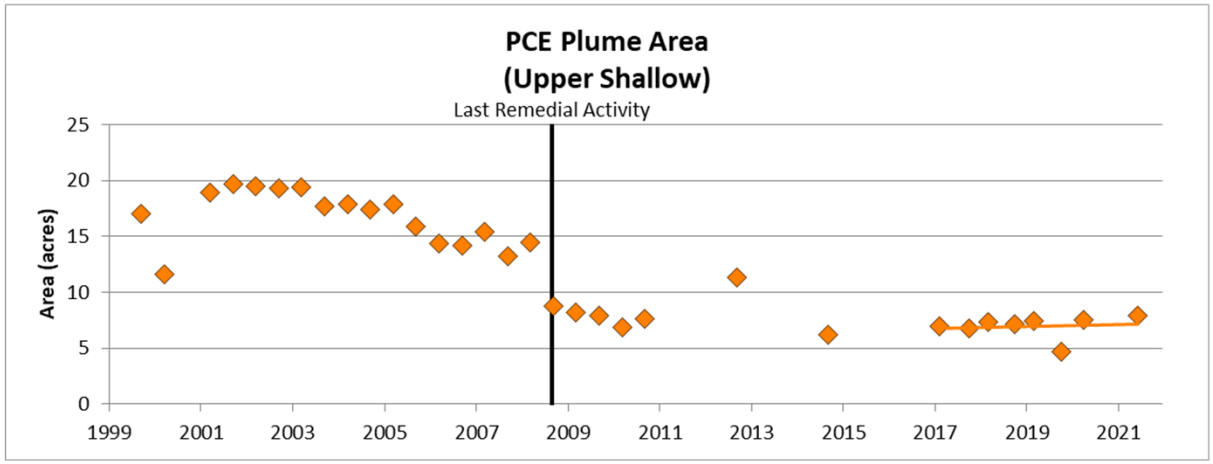
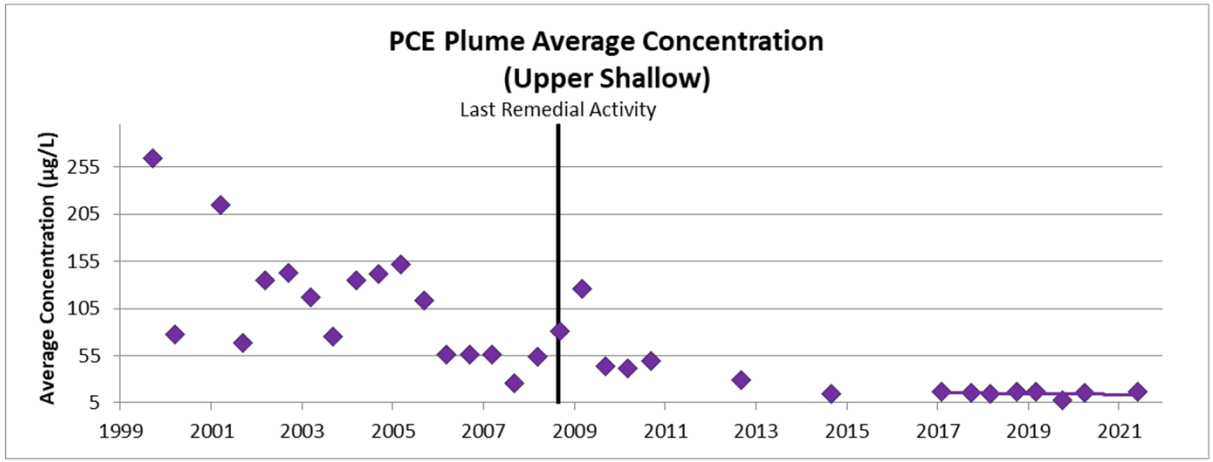
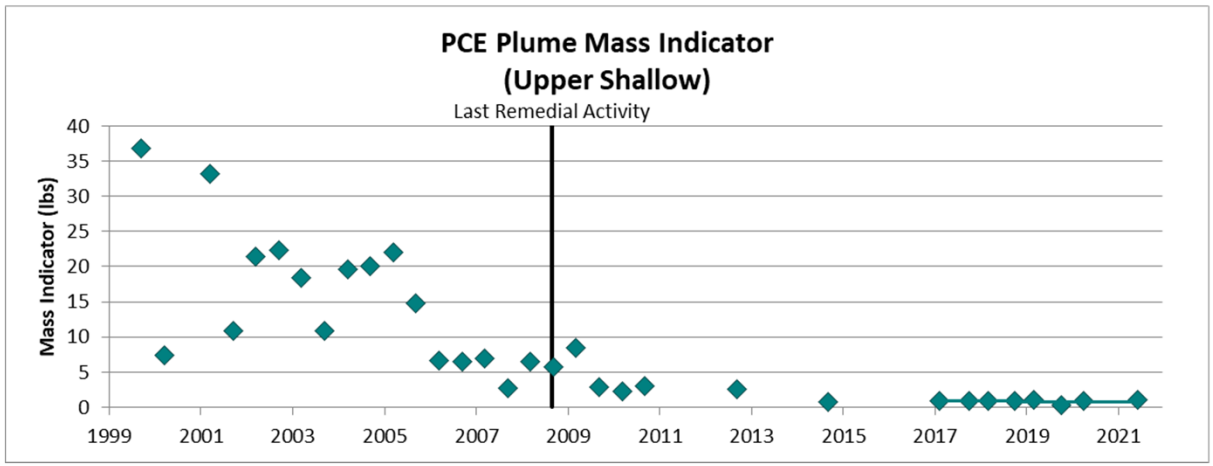


Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 95% Confidence
Regression: 26% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 55% Confidence
Regression: 32% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 14% Confidence

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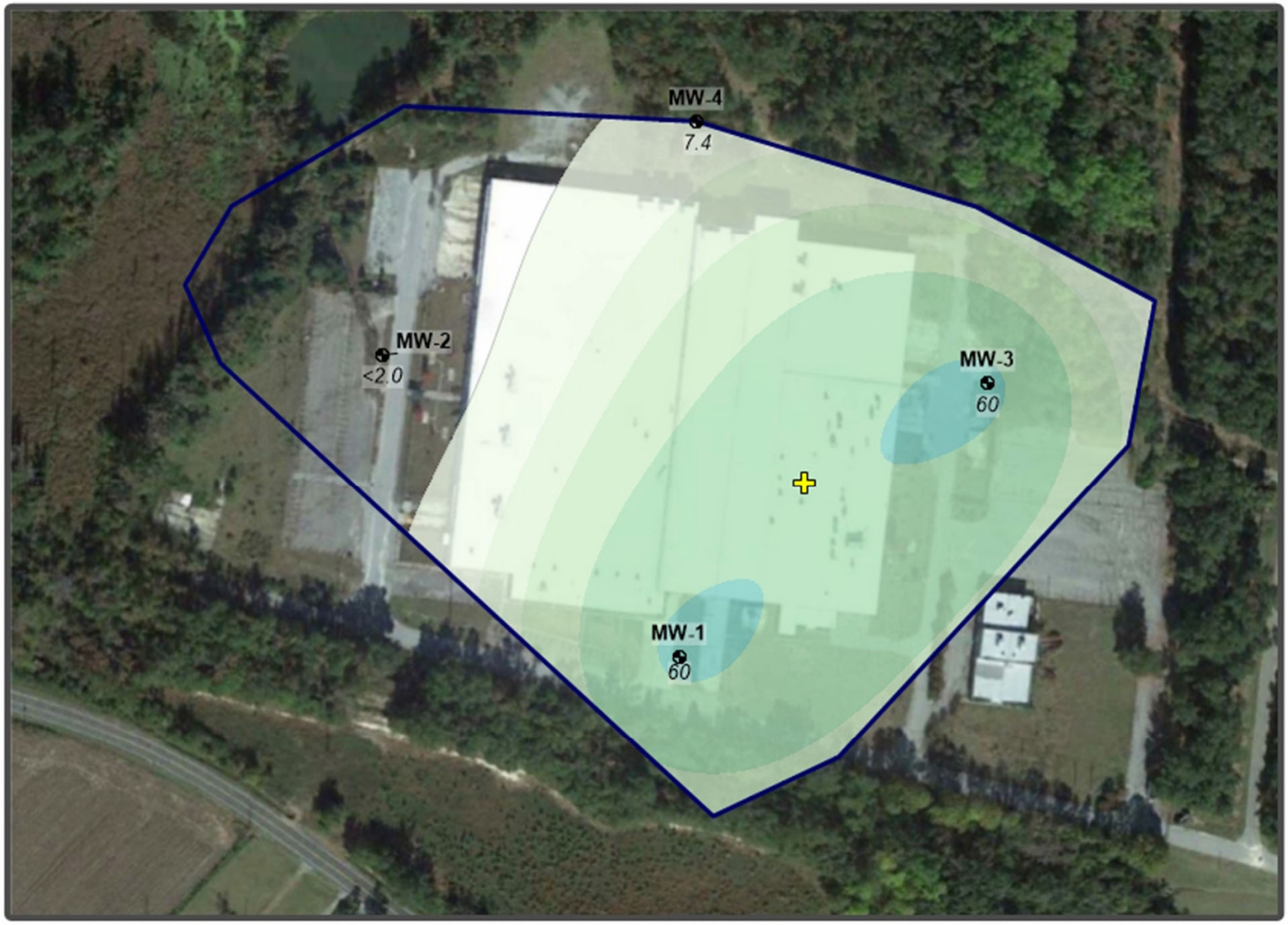

TCE
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
50
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-5 — Hanging Well
- 112 — Concentration (µg/L)
- NS (140) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **15.8 acres**
Plume Average Concentration: **26.6 µg/L**
Plume Mass Indicator: **3.4 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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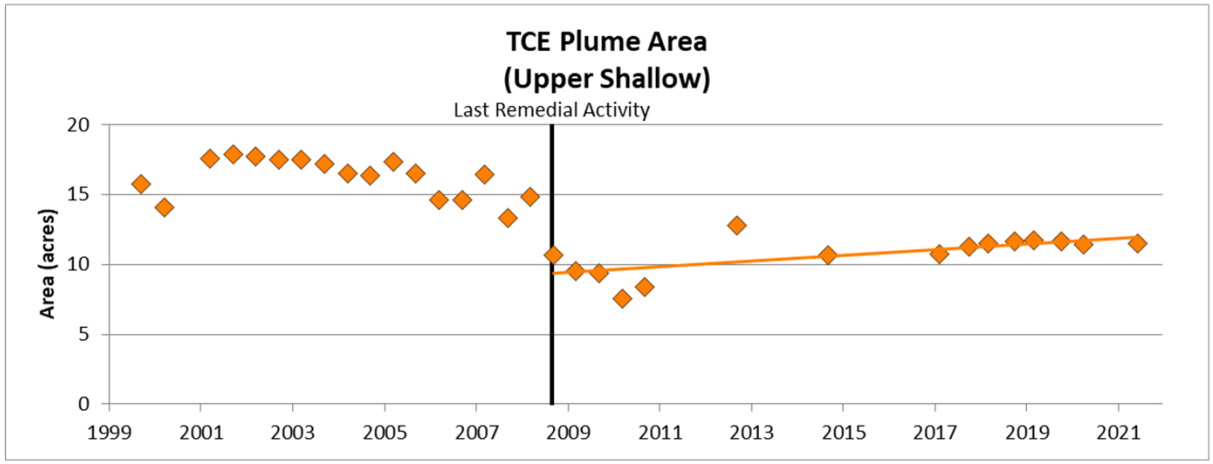
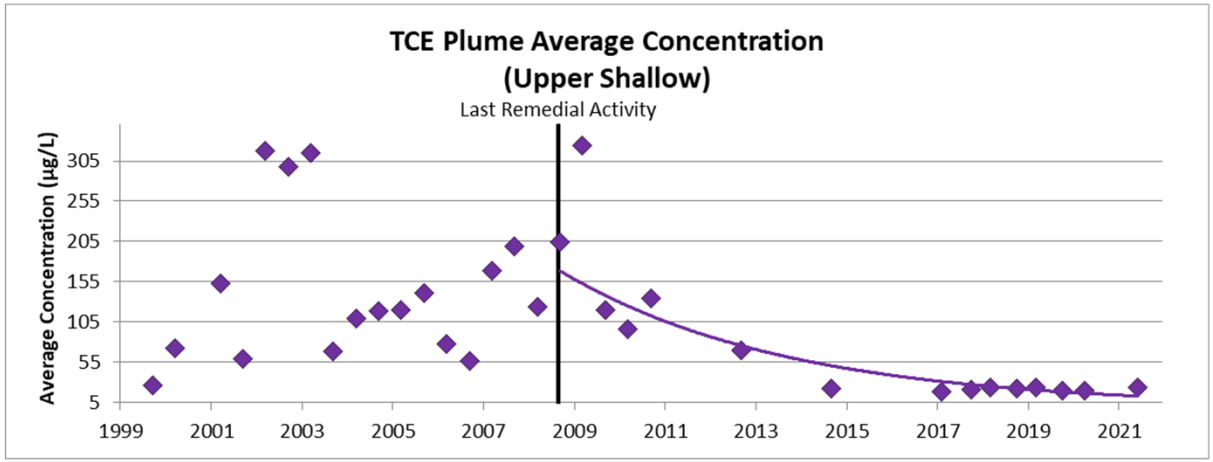
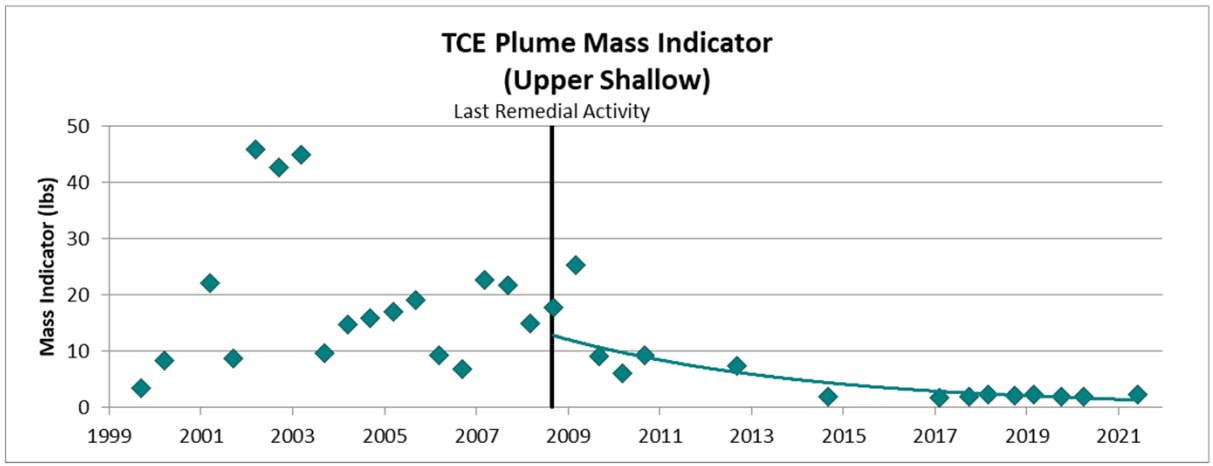


Sep-2008 to Jun-2021
Increasing Trend
Mann-Kendall: 99% Confidence
Regression: 99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

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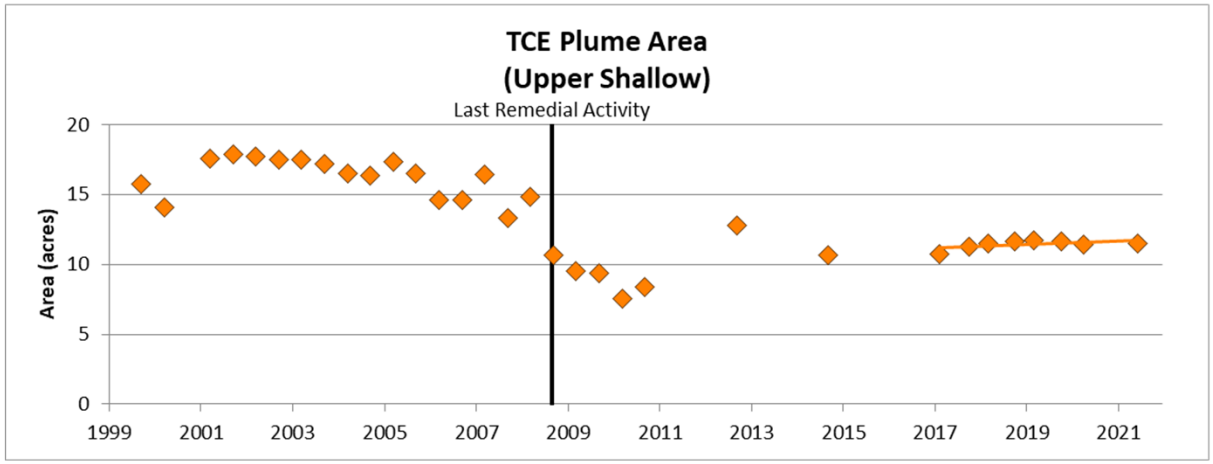
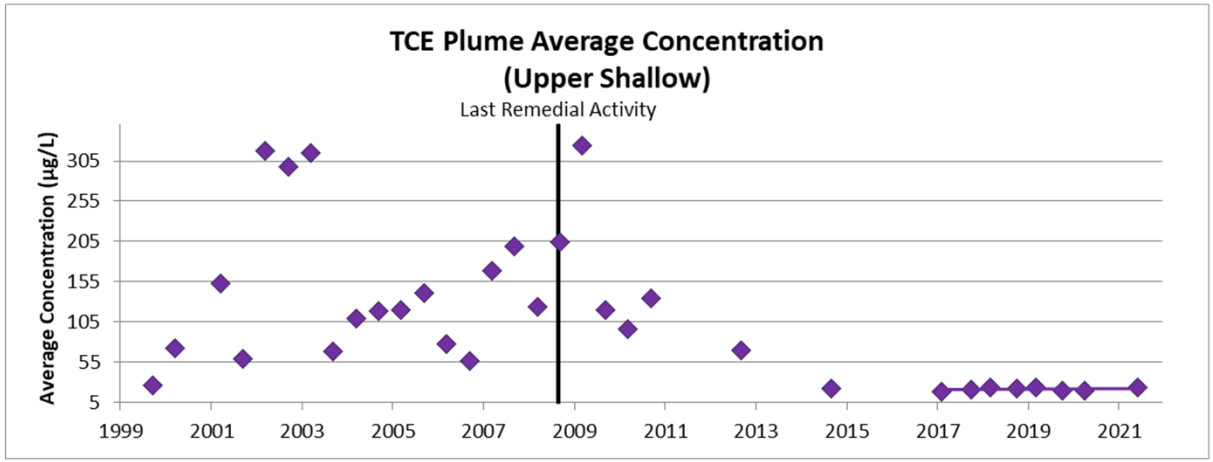
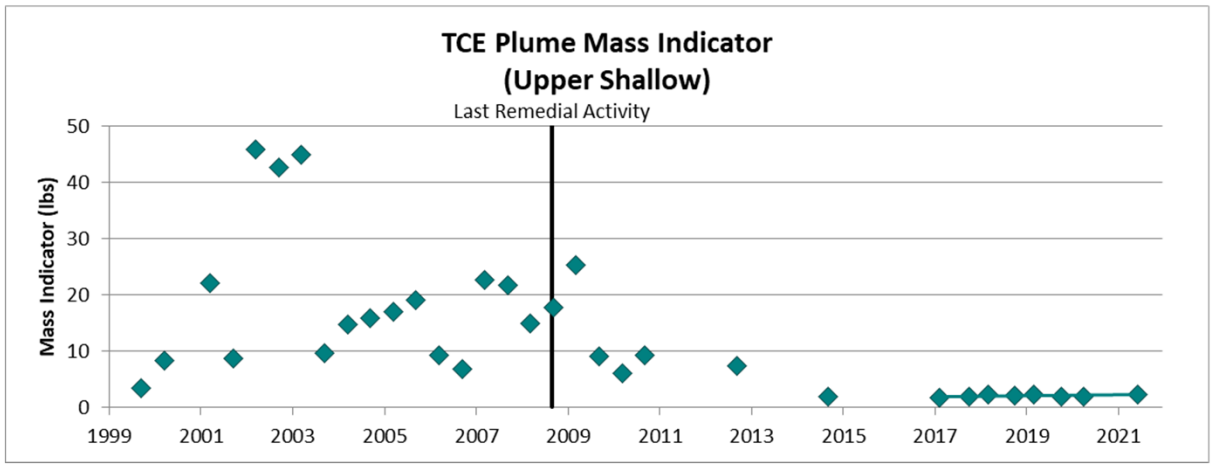
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 86% Confidence

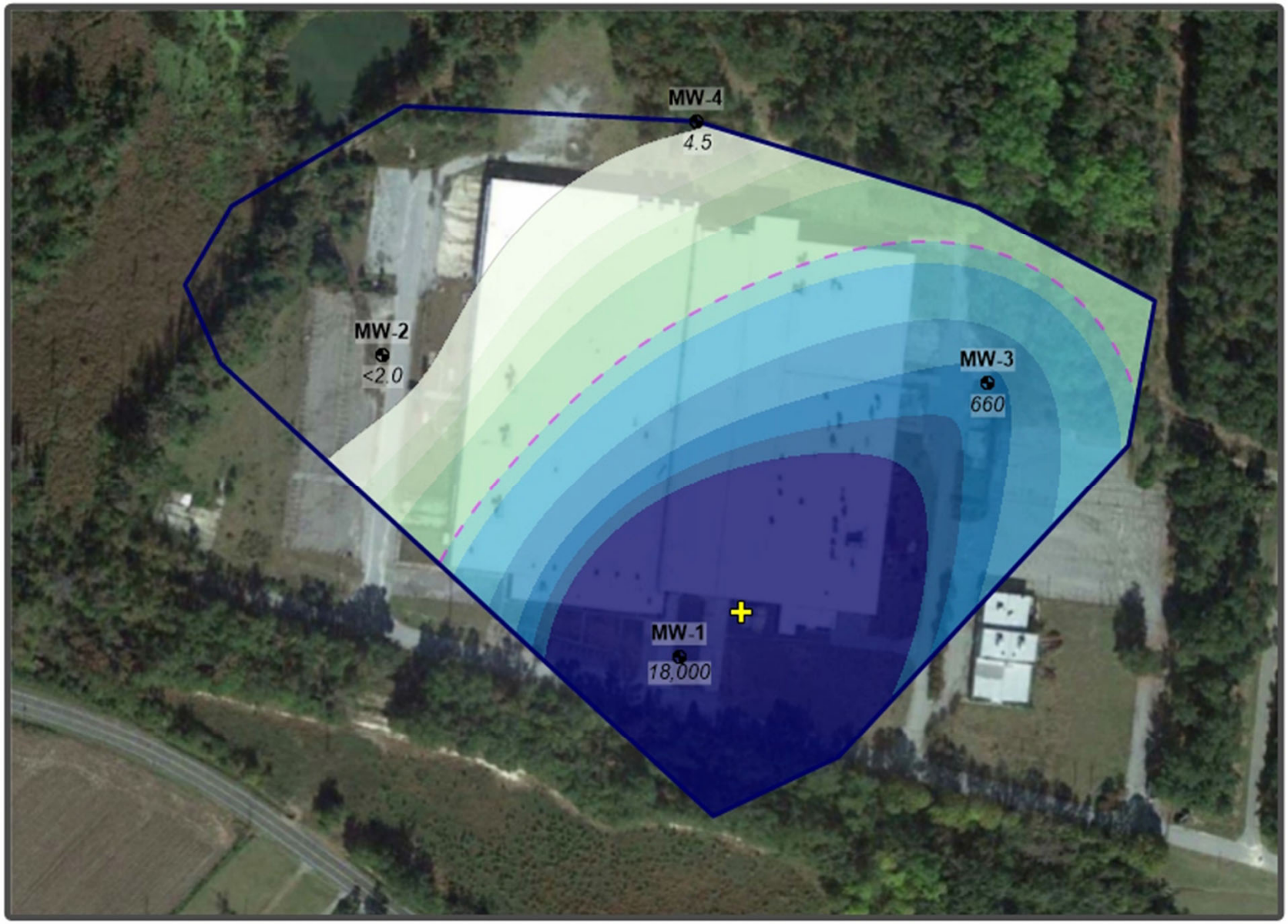


Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 61% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 70% Confidence

EARTHCON
Member of WSP



cis-1,2-DCE
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
70 MCL
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

N

Plume Characteristics

Plume Area: **16.4 acres**
Plume Average Concentration: **1,144 µg/L**
Plume Mass Indicator: **153 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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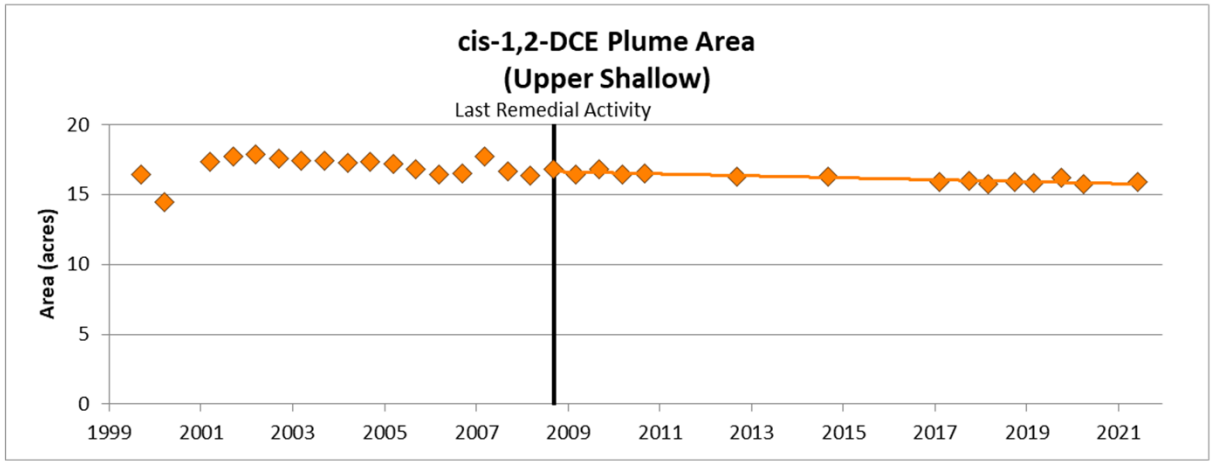
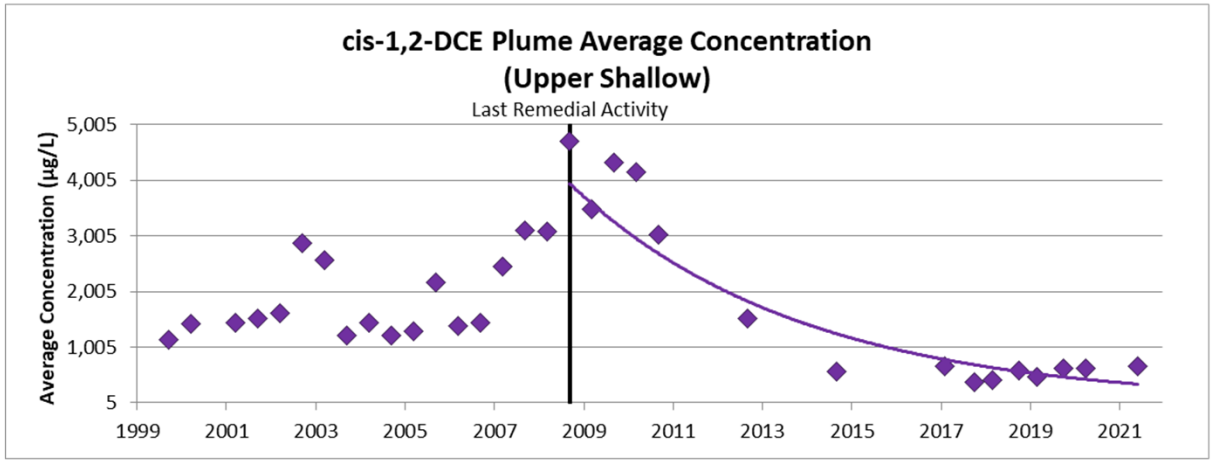
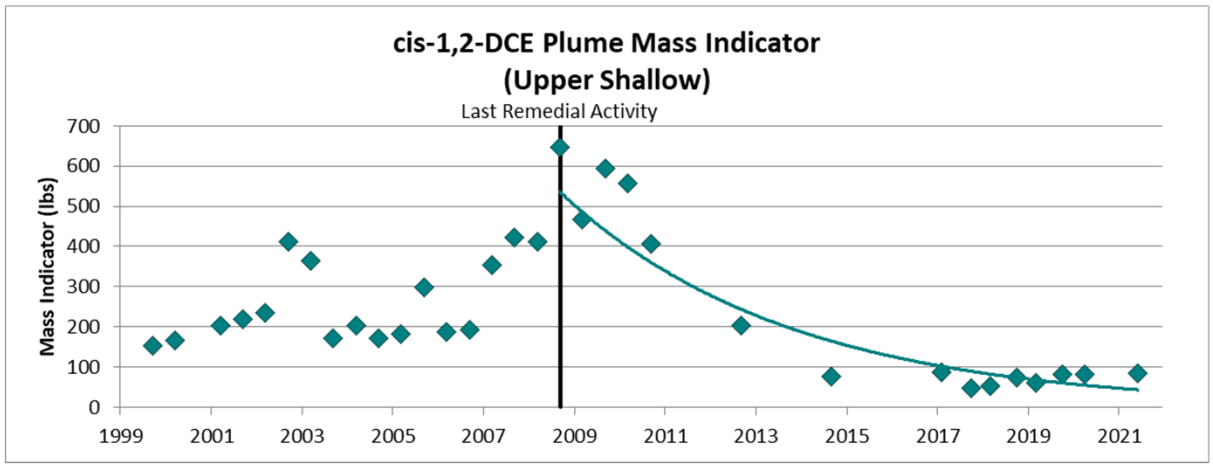


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

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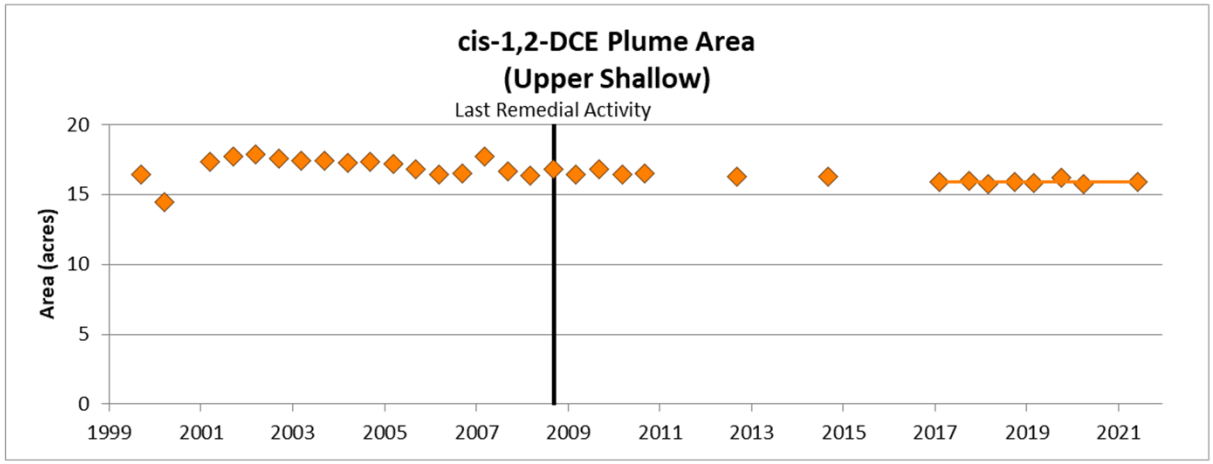
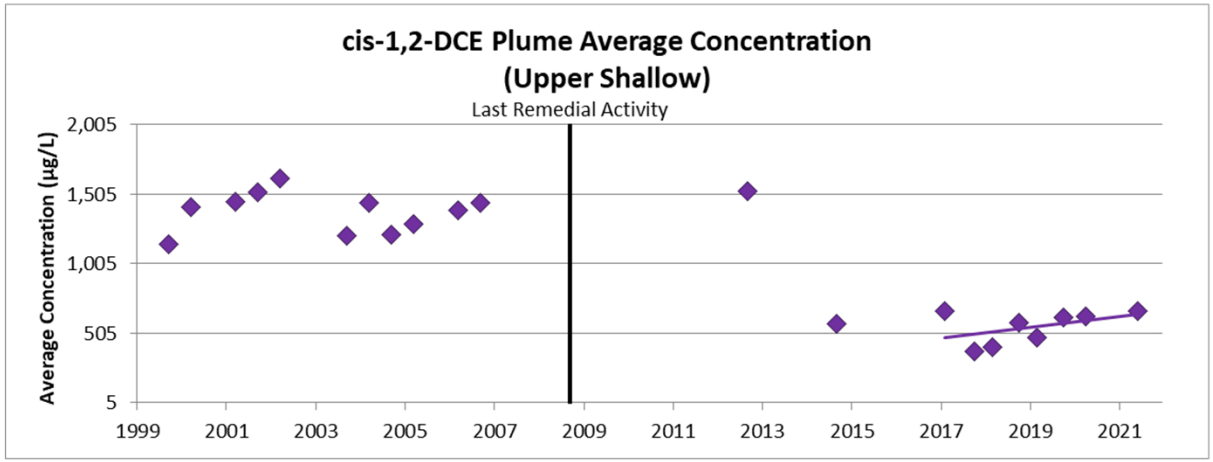
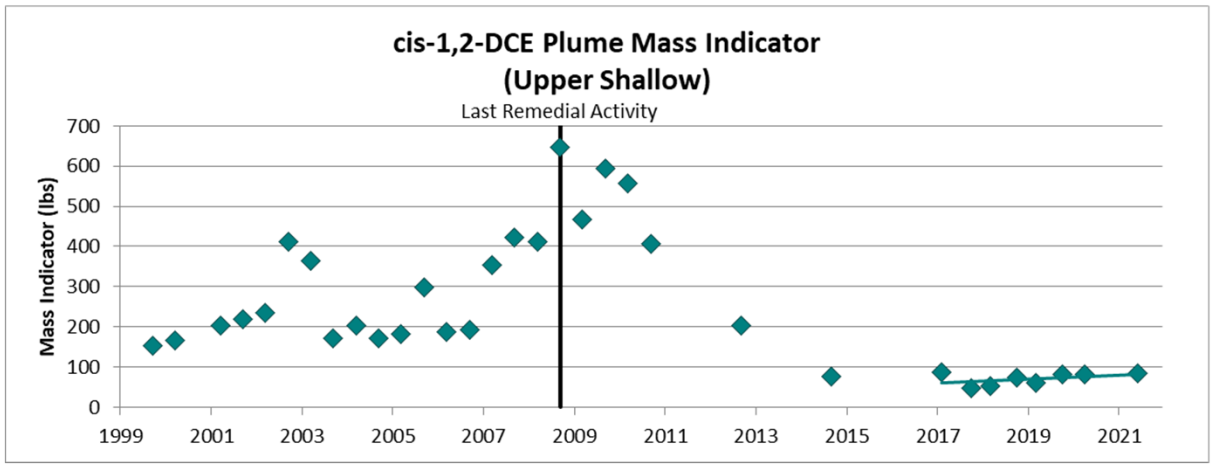
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 73% Confidence
Regression: 0% Confidence

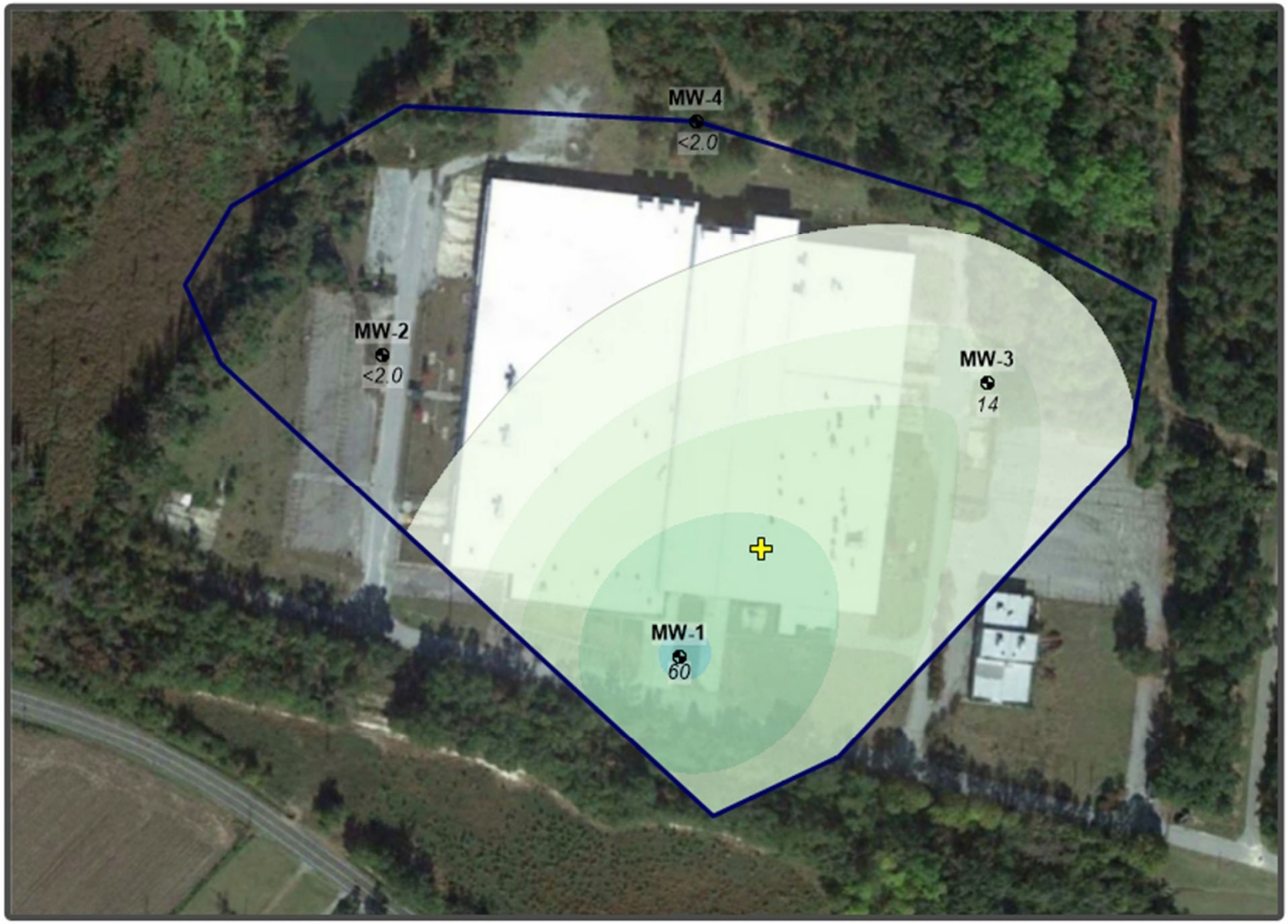


Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 91% Confidence
Regression: 74% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 74% Confidence

EARTHCON®
Member of WSP



trans-1,2-DCE
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100 MCL
50
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

N

Plume Characteristics

Plume Area: **12.8 acres**
Plume Average Concentration: **16.8 µg/L**
Plume Mass Indicator: **1.8 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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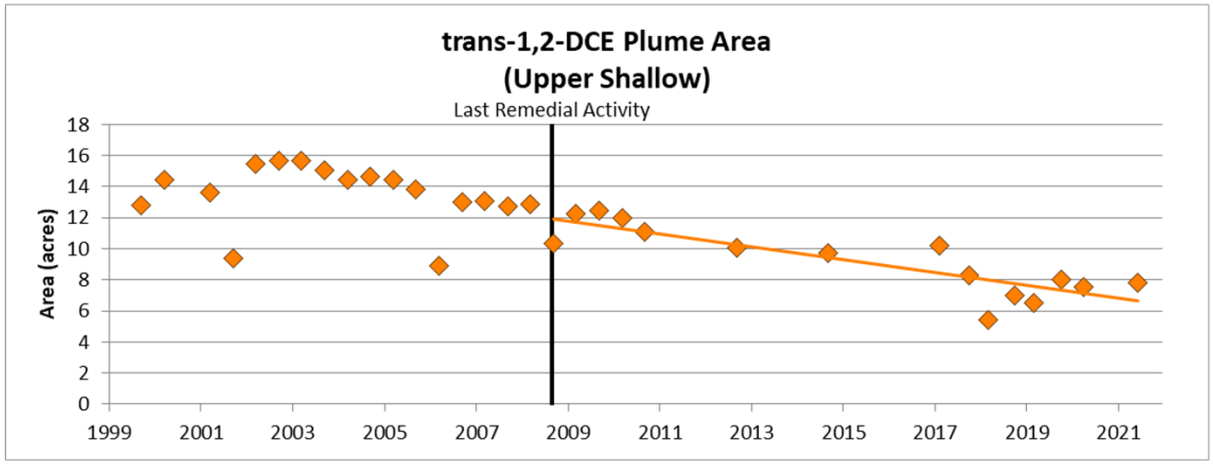
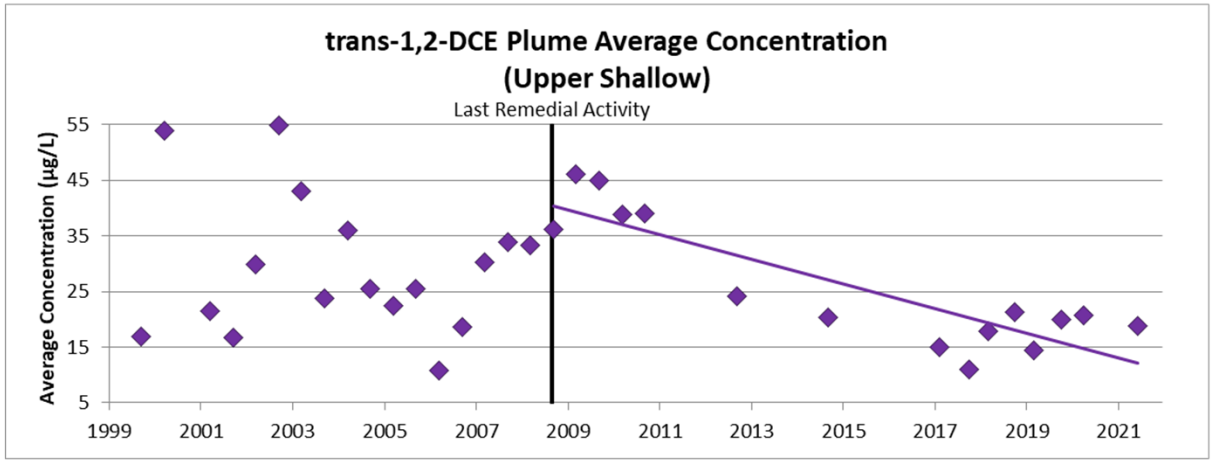
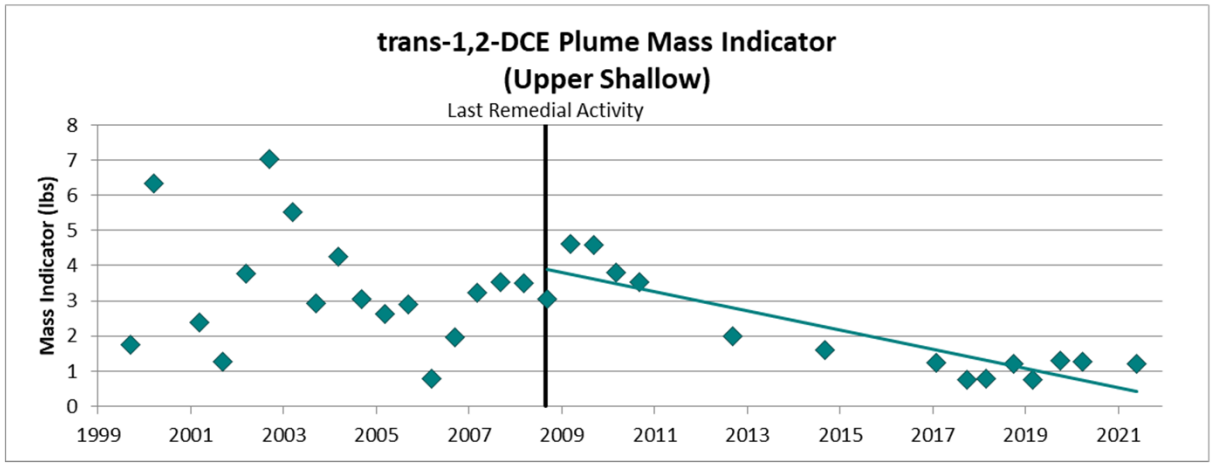


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

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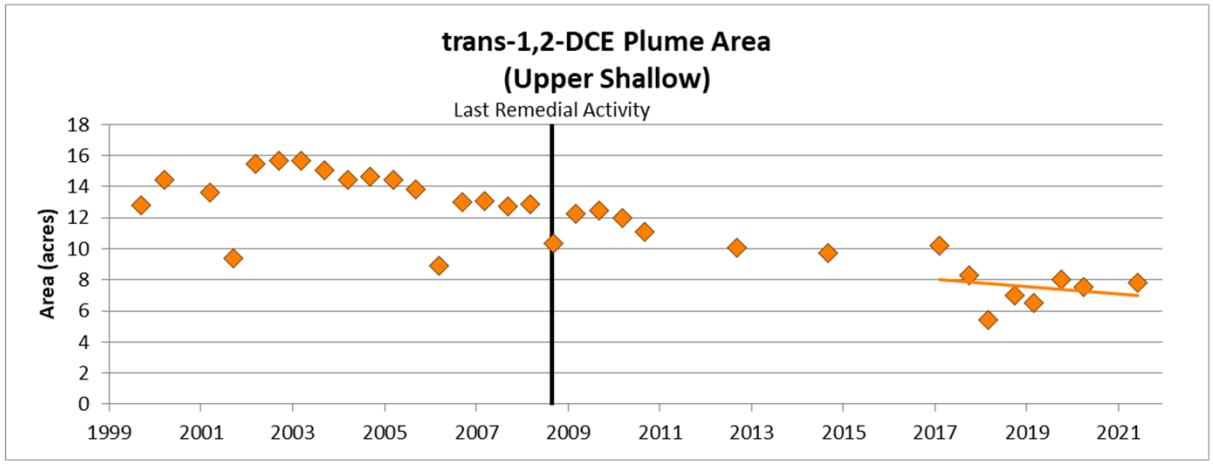
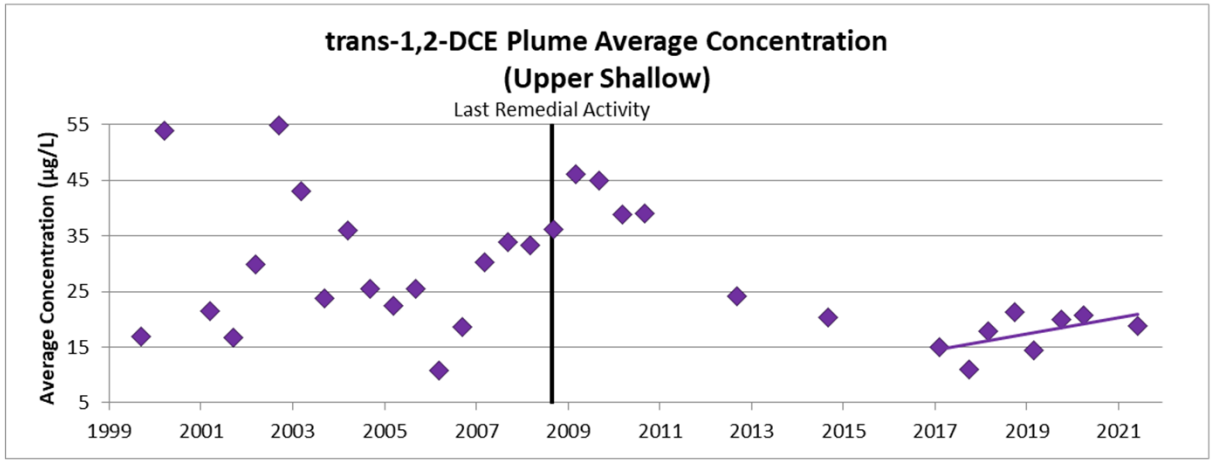
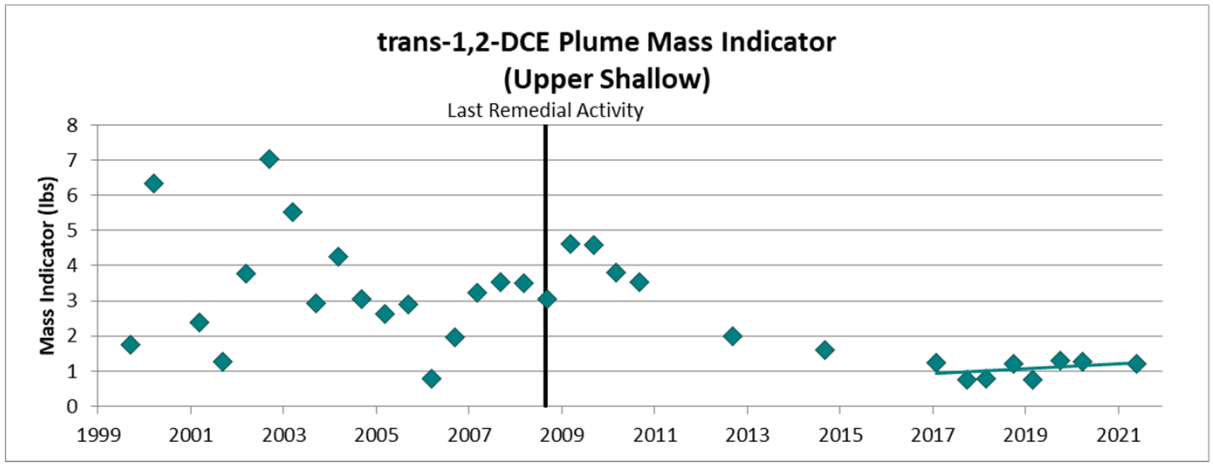
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 64% Confidence
Regression: 43% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 86% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 73% Confidence
Regression: 66% Confidence

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Member of WSP

1,1-DCE
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
70
25
15
10
7

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-5 — Hanging Well
- 112 — Concentration (µg/L)
- NS (140) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **11.9 acres**
Plume Average Concentration: **17.2 µg/L**
Plume Mass Indicator: **1.7 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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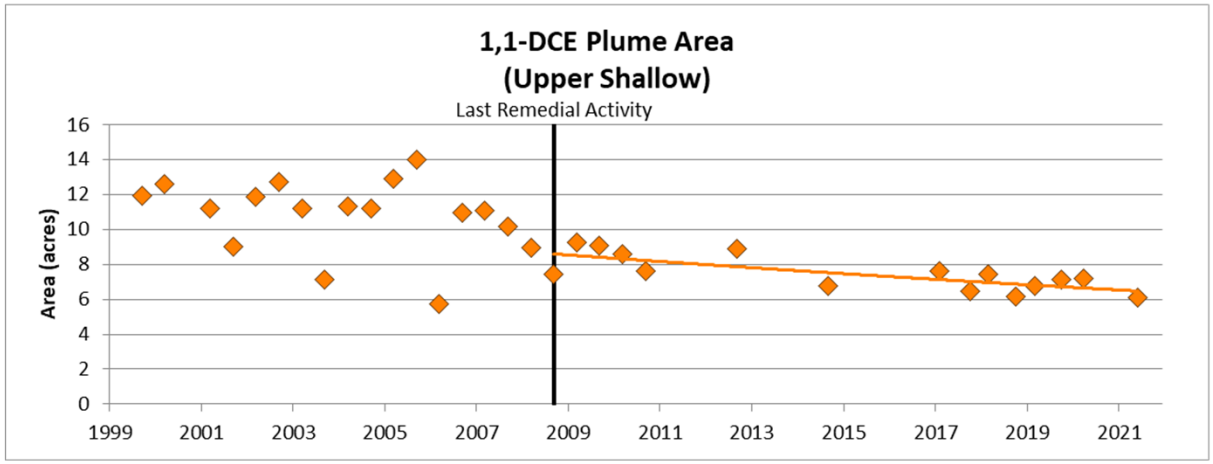
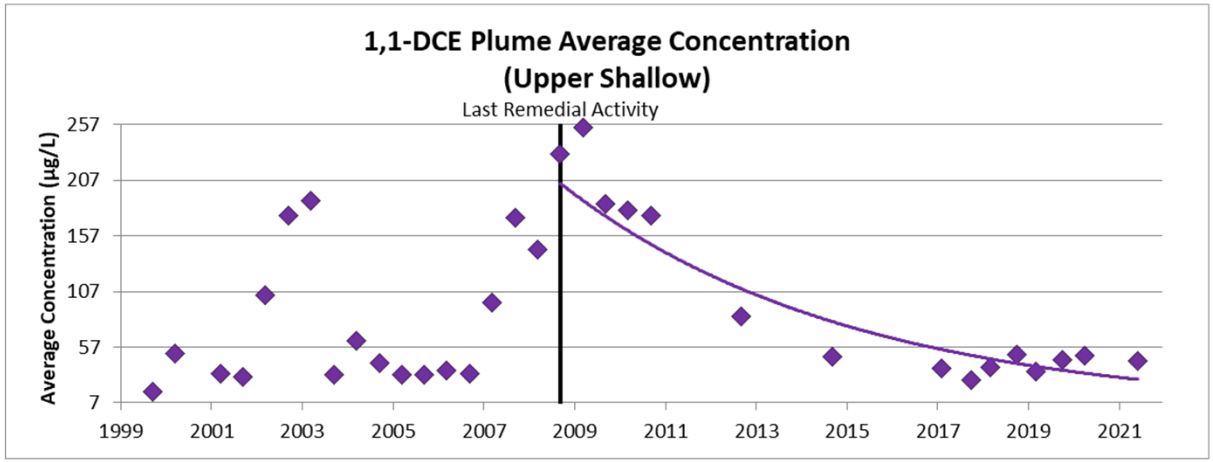
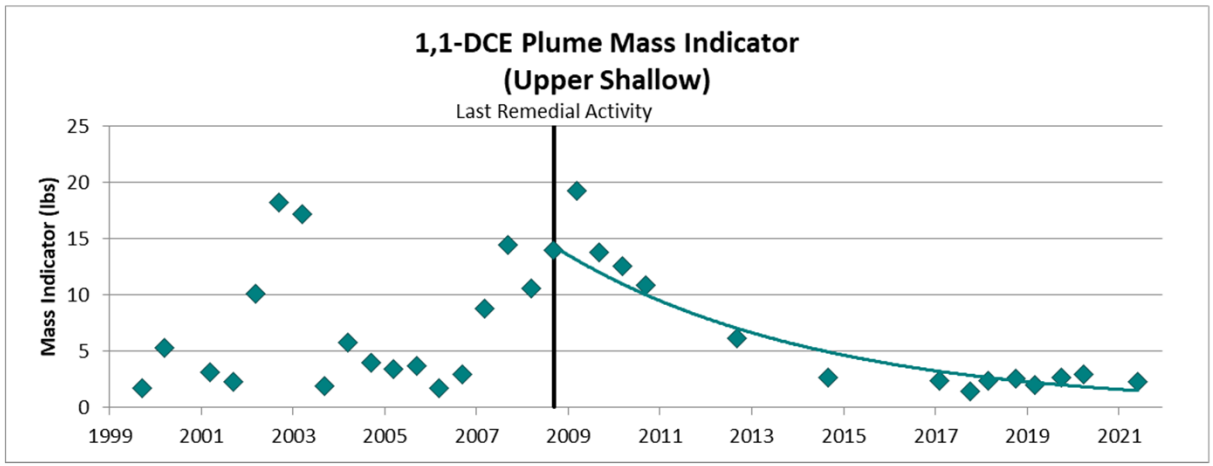


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

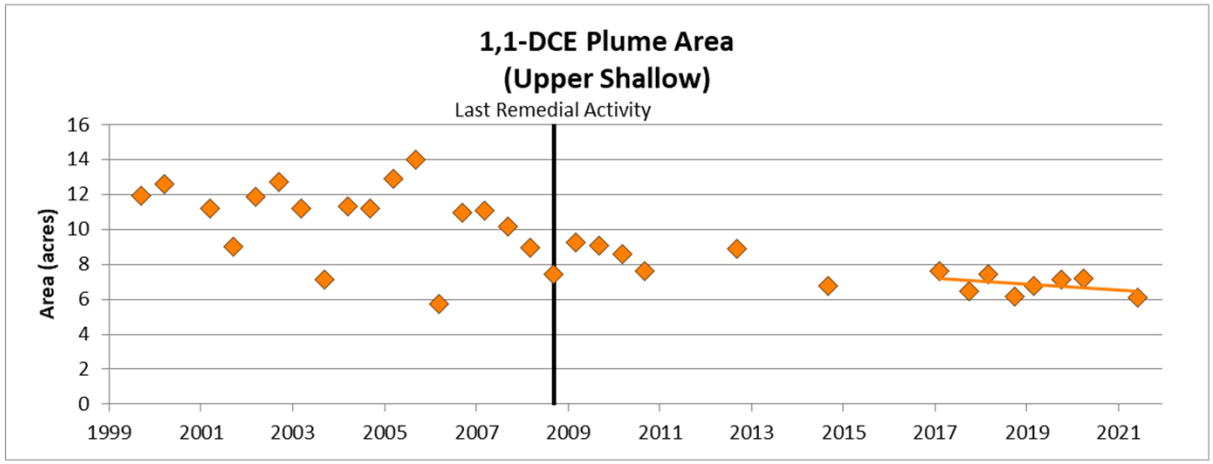


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

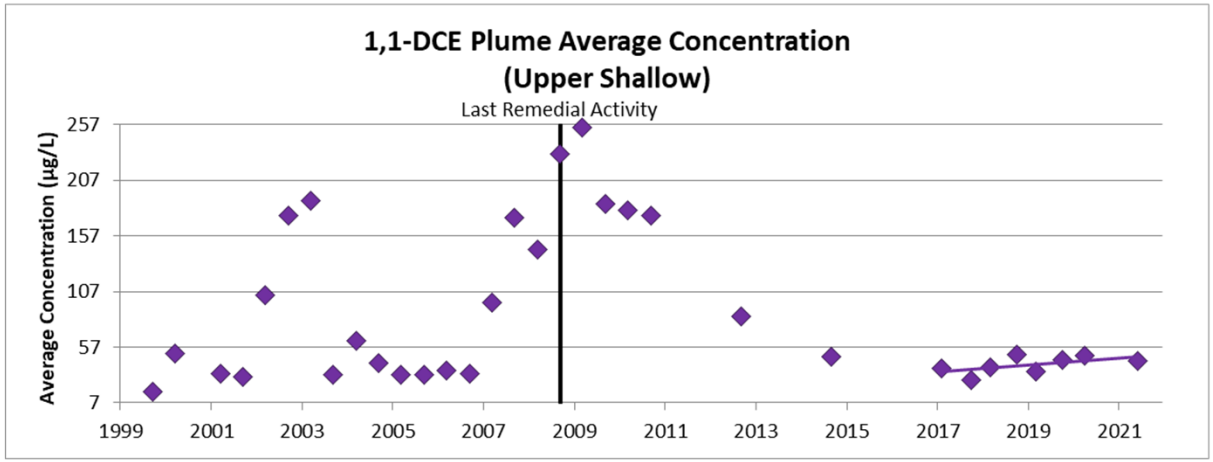


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

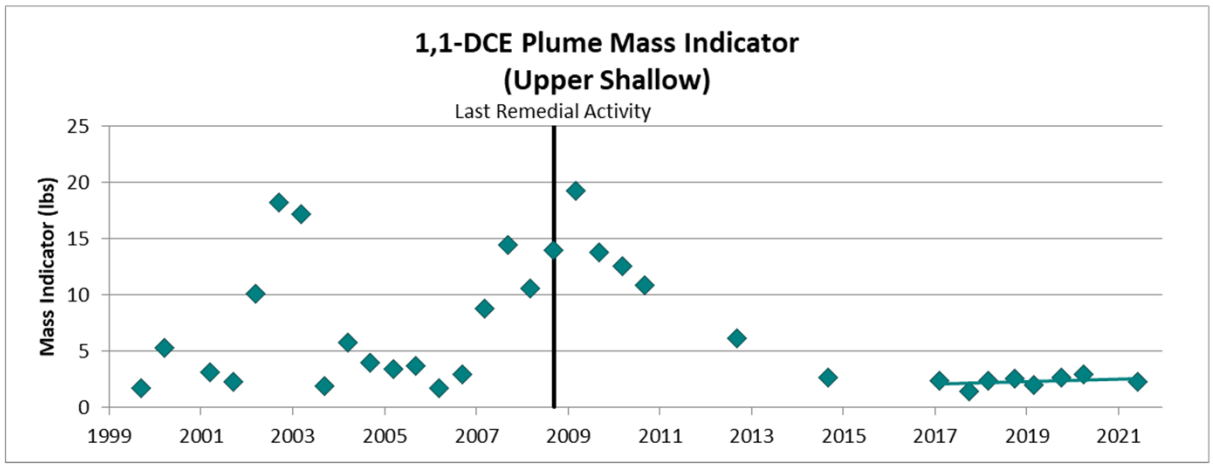
EARTHCON®
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 74% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 87% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 63% Confidence

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Member of WSP

Vinyl Chloride
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
50
25
15
10
2

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-5 — Hanging Well
- 112 — Concentration (µg/L)
- NS (140) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **15.1 acres**
Plume Average Concentration: **20.4 µg/L**
Plume Mass Indicator: **2.5 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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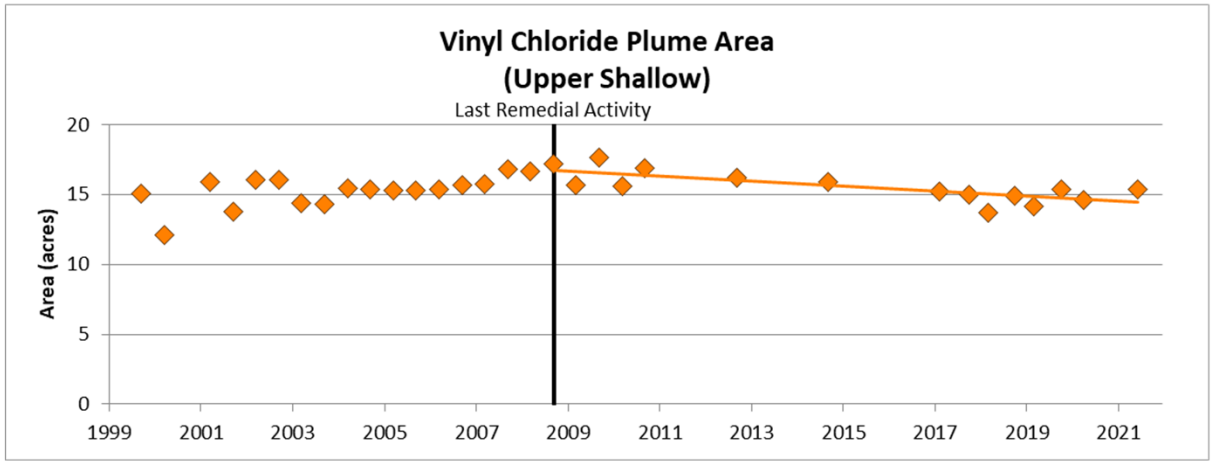
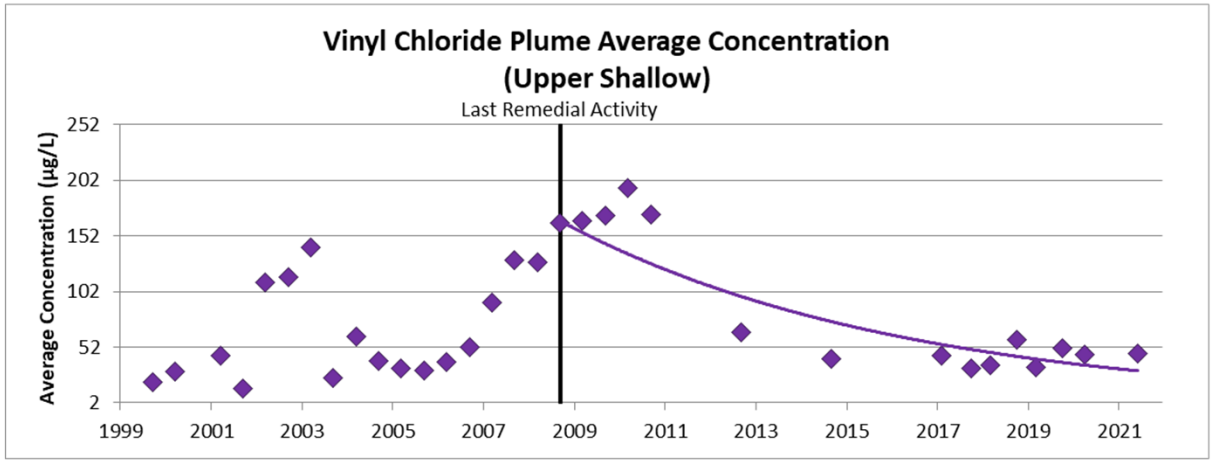
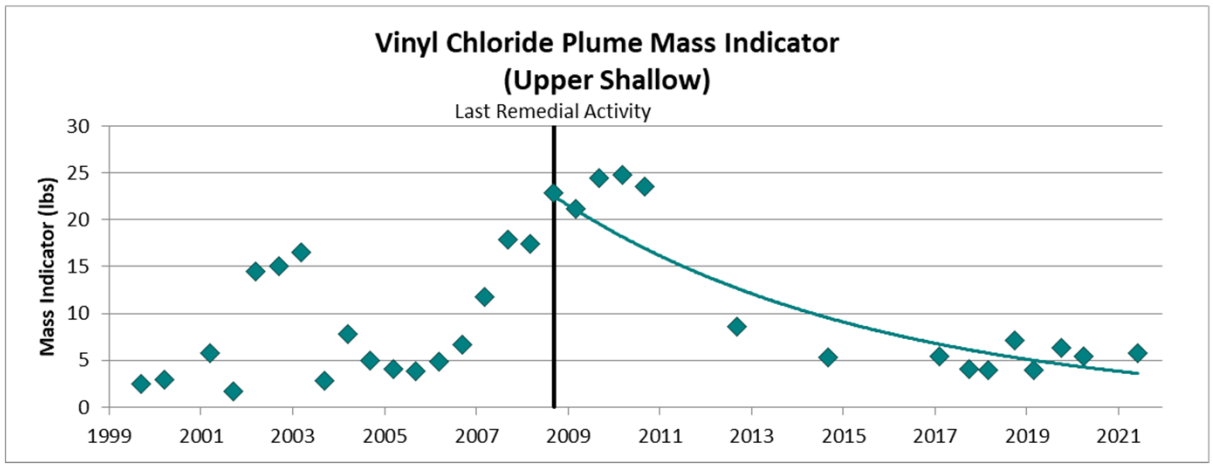


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 98% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

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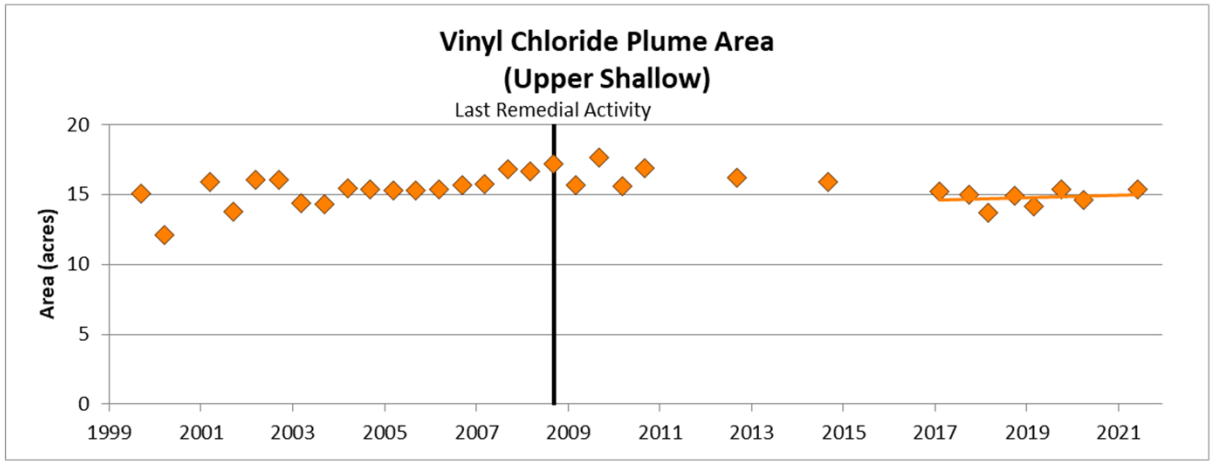
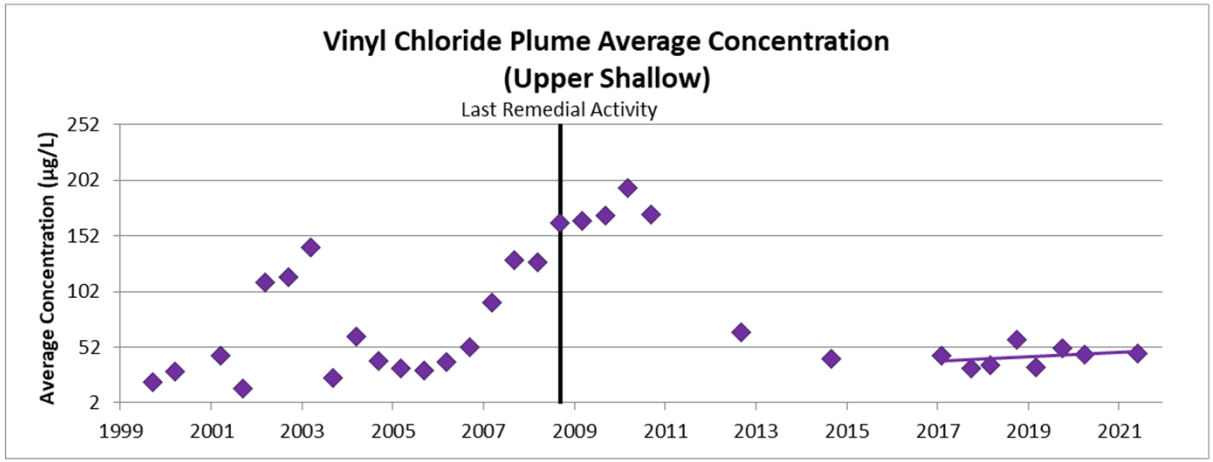
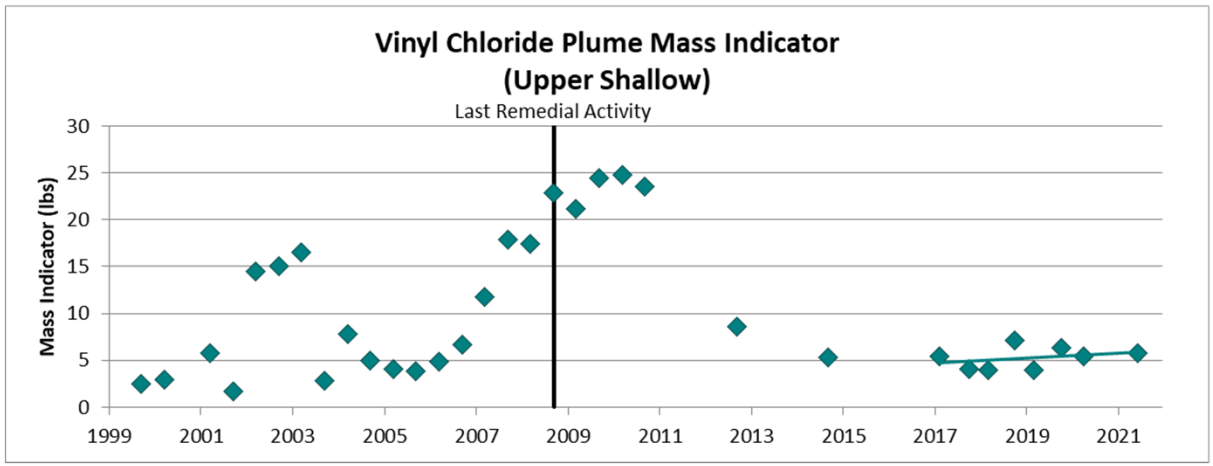


Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 64% Confidence
Regression: 39% Confidence

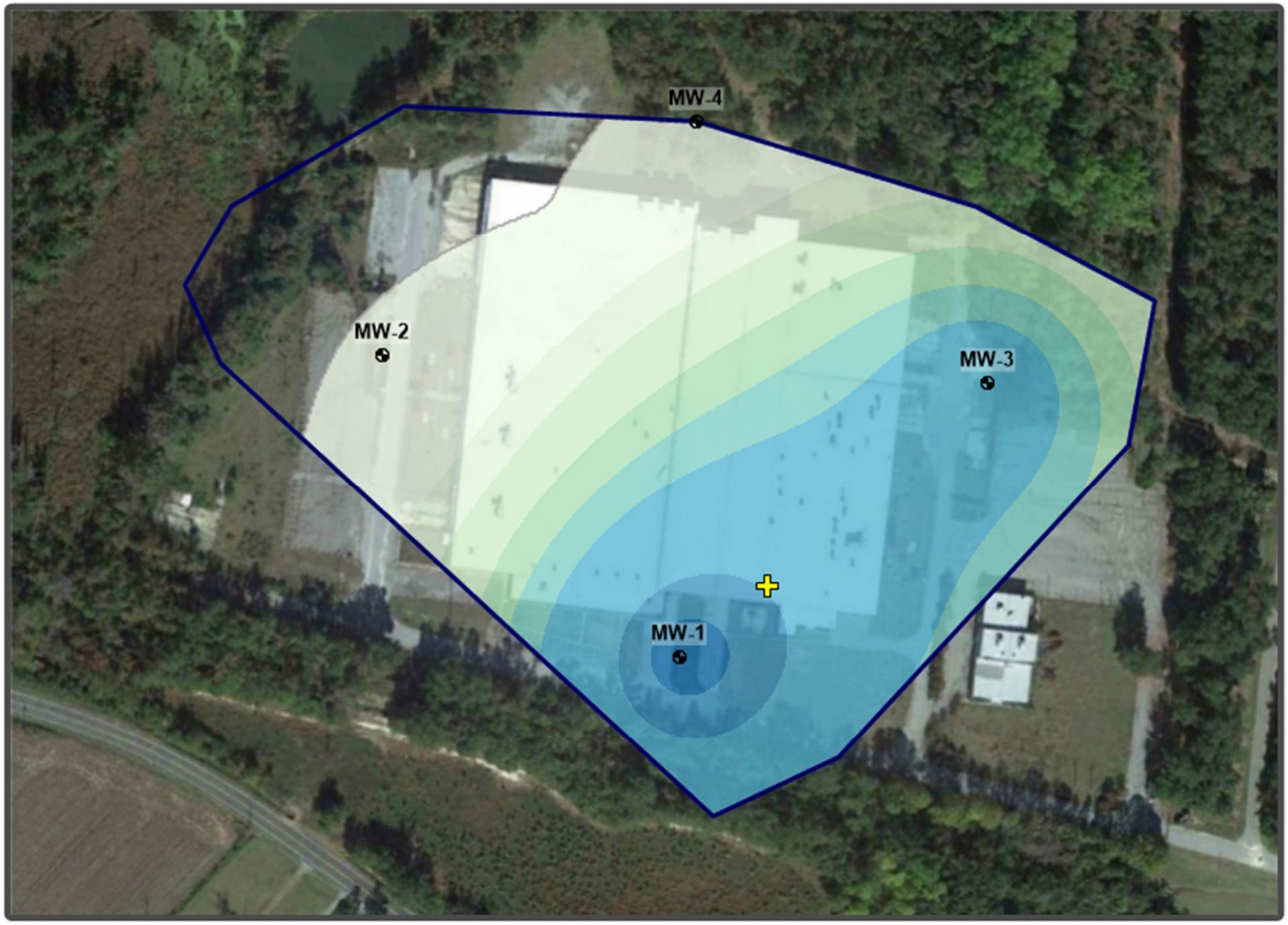


Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 55% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 55% Confidence
Regression: 56% Confidence

EARTHCON®
Member of WSP



Total Chloroethenes
Upper Shallow
Sep-1999

Concentration (nmol/L)

- 350,000
- 200,000
- 100,000
- 50,000
- 10,000
- 5,000
- 2,500
- 1,000
- 500
- 0

0 ft 215 ft 430 ft

LEGEND

- MW-1 Monitoring Well
- MW-3 Hanging Well
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **17.4 acres**
Plume Average Concentration: **13,471 nmol/L**
Plume Mass Indicator: **869 moles**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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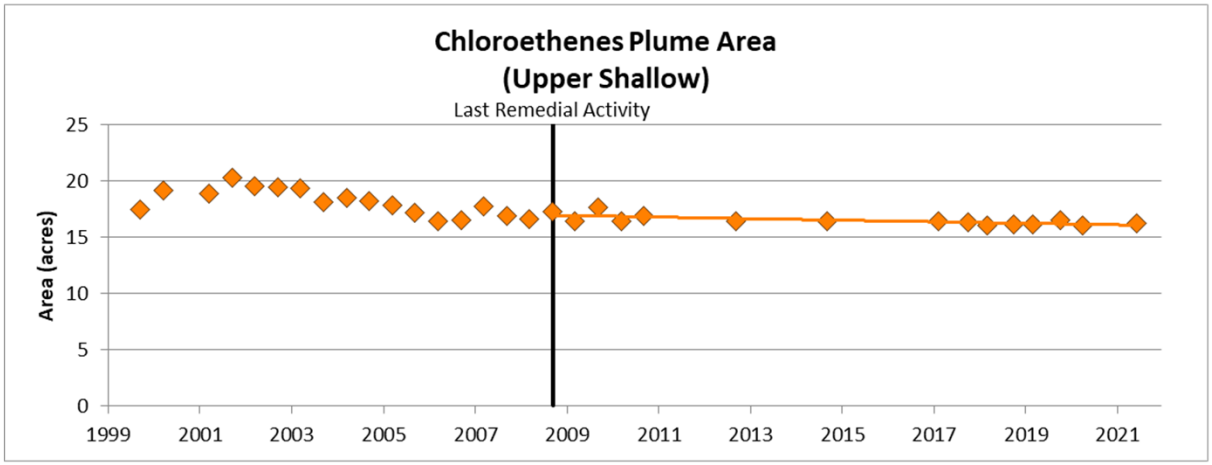
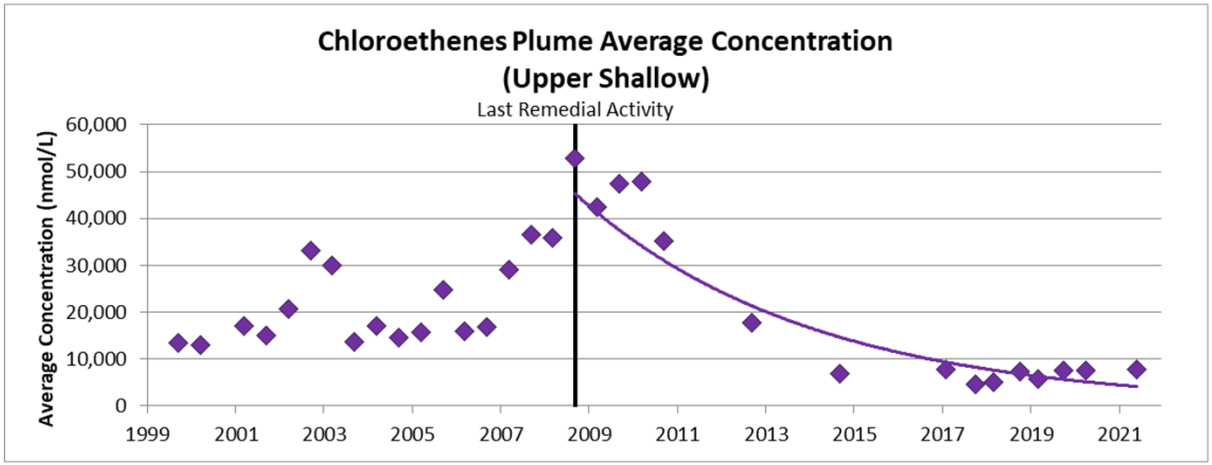
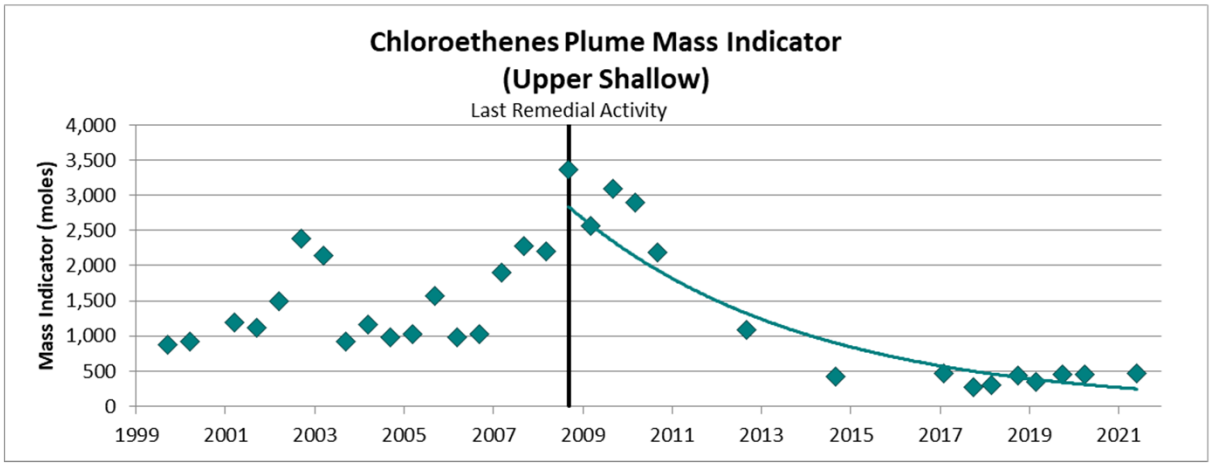


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

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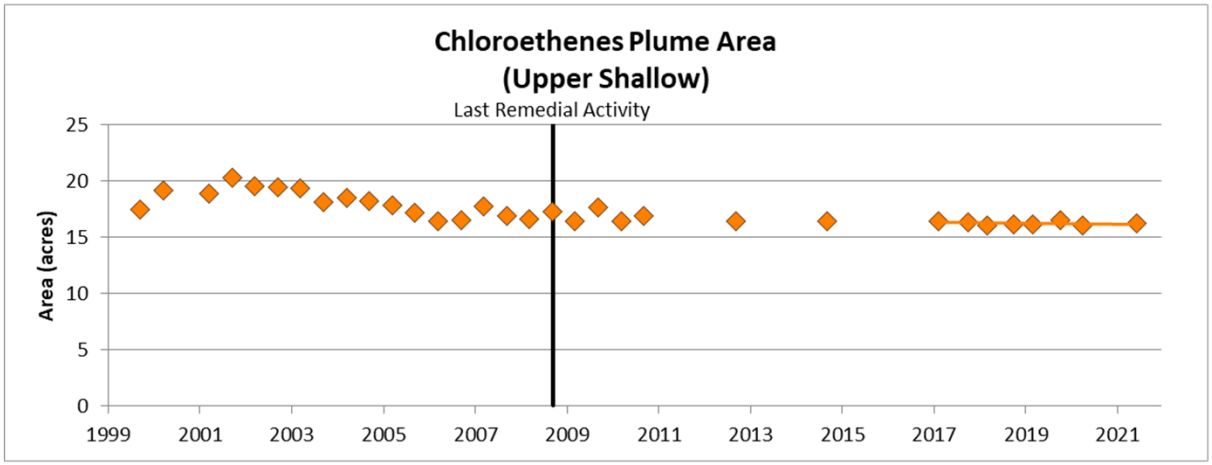
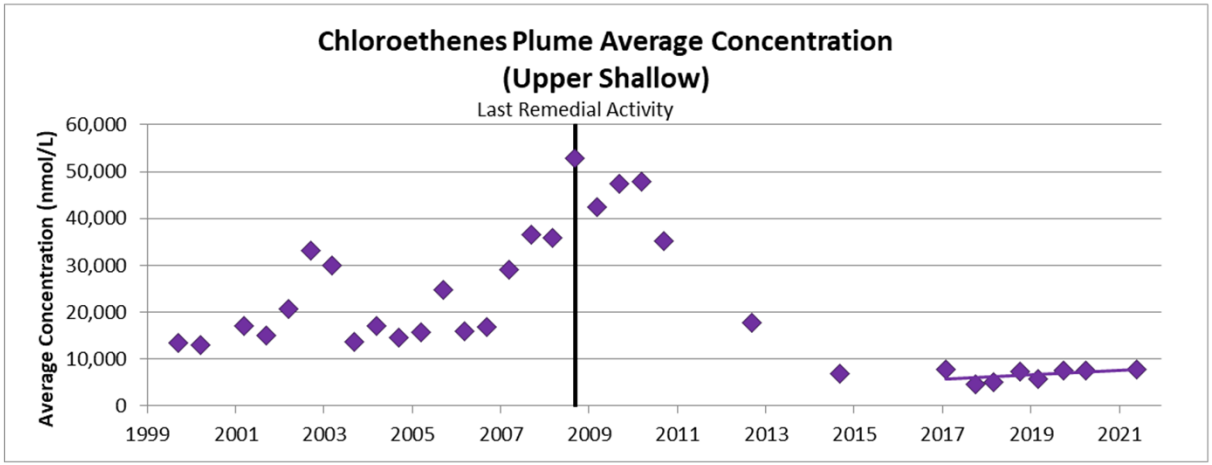
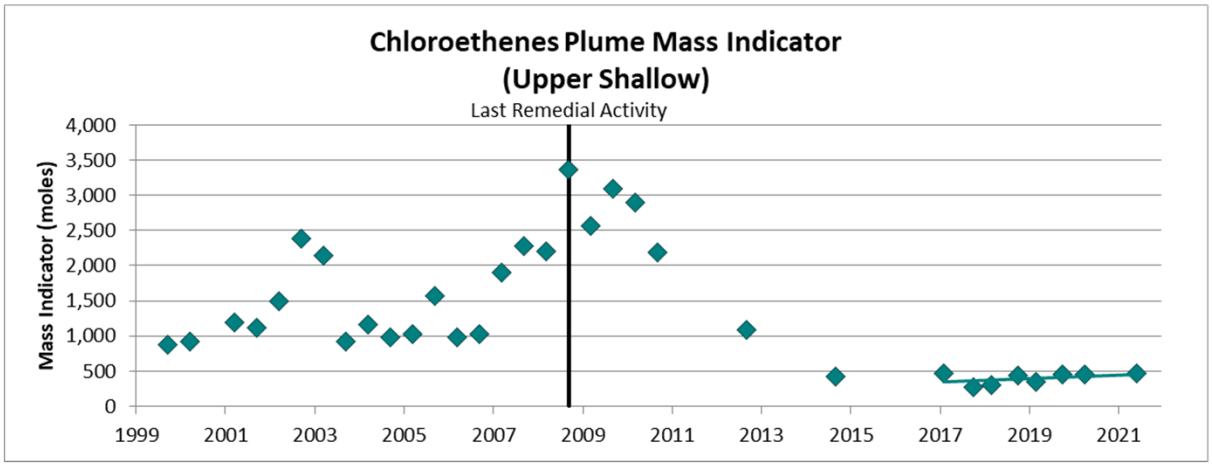


Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 55% Confidence
Regression: 51% Confidence



Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 95% Confidence
Regression: 77% Confidence



Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 91% Confidence
Regression: 74% Confidence

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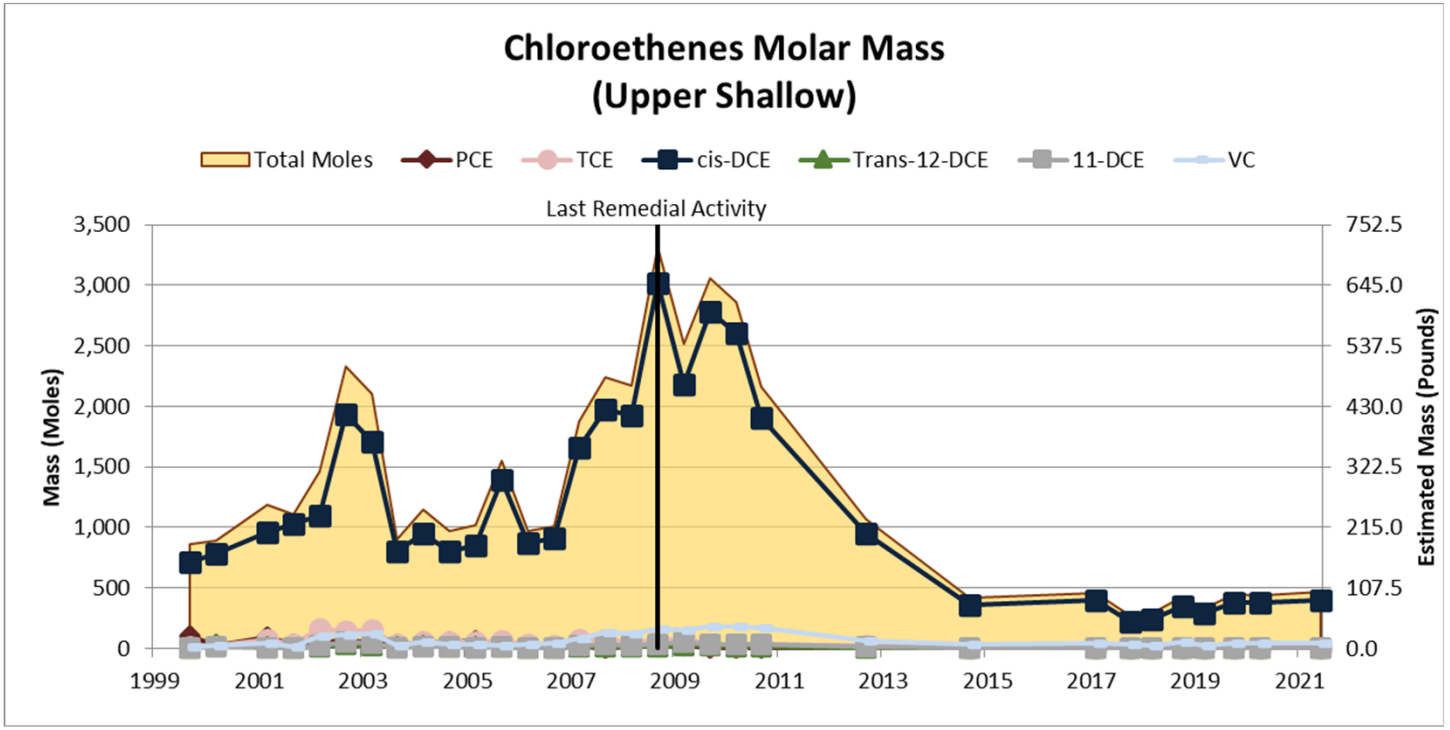

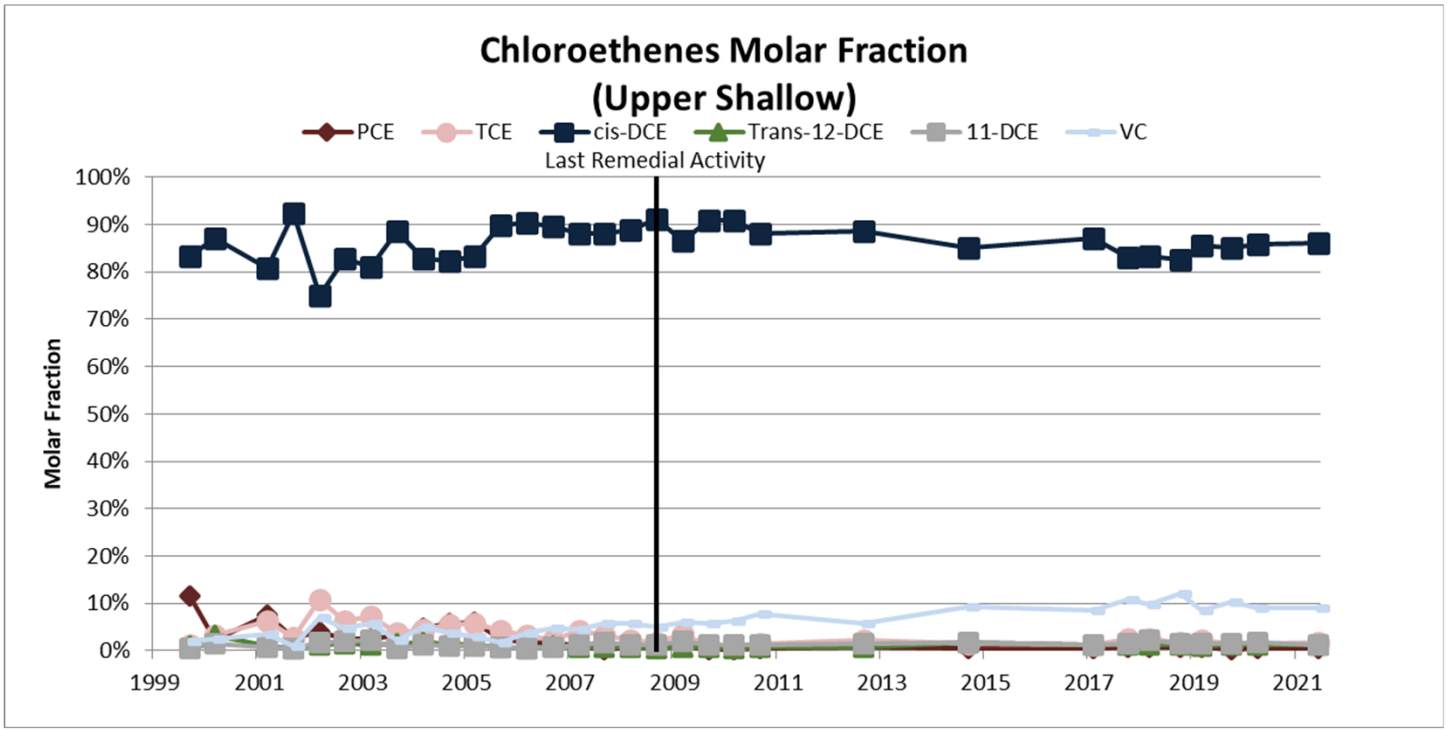

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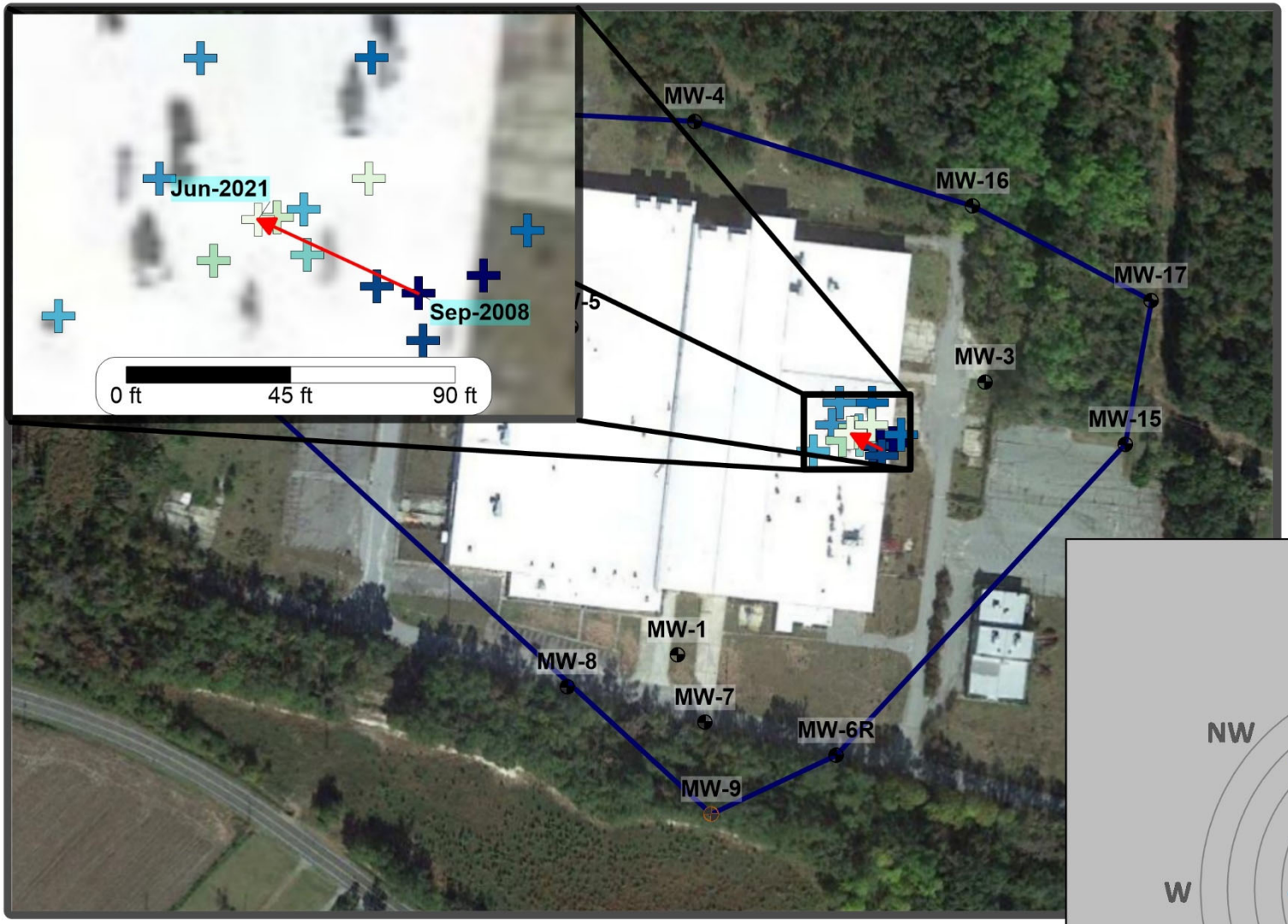
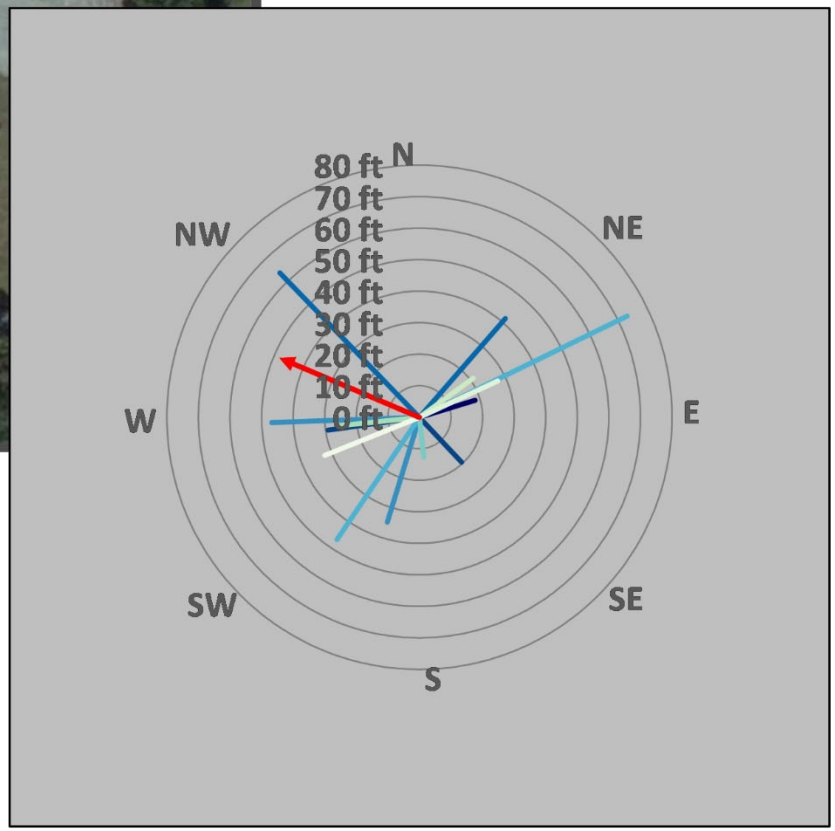
Total Chloroethenes Level Center of Mass





LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Center of Mass Movement
- Net Movement
- N

Center of Mass Scale

2008 → 2021

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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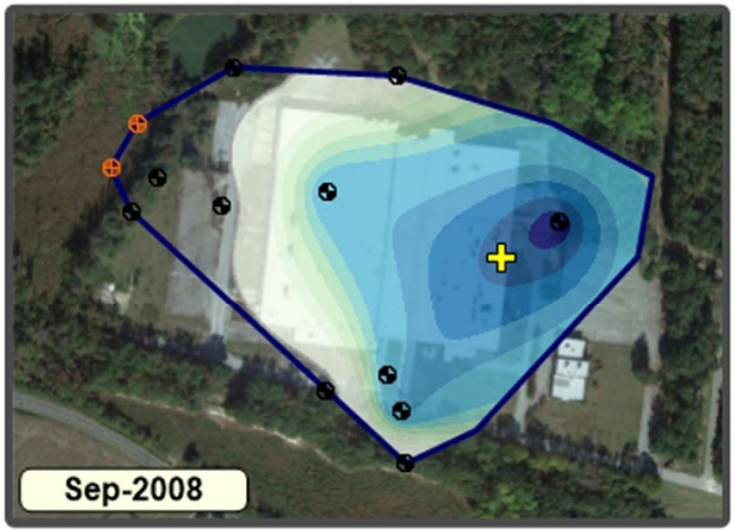
Chloroethenes
Upper Shallow

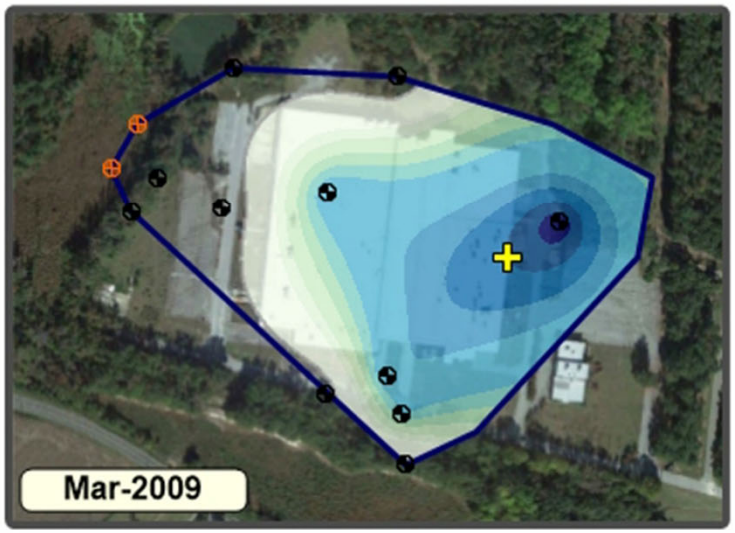
Plume Differences Sep-2008 vs Mar-2009

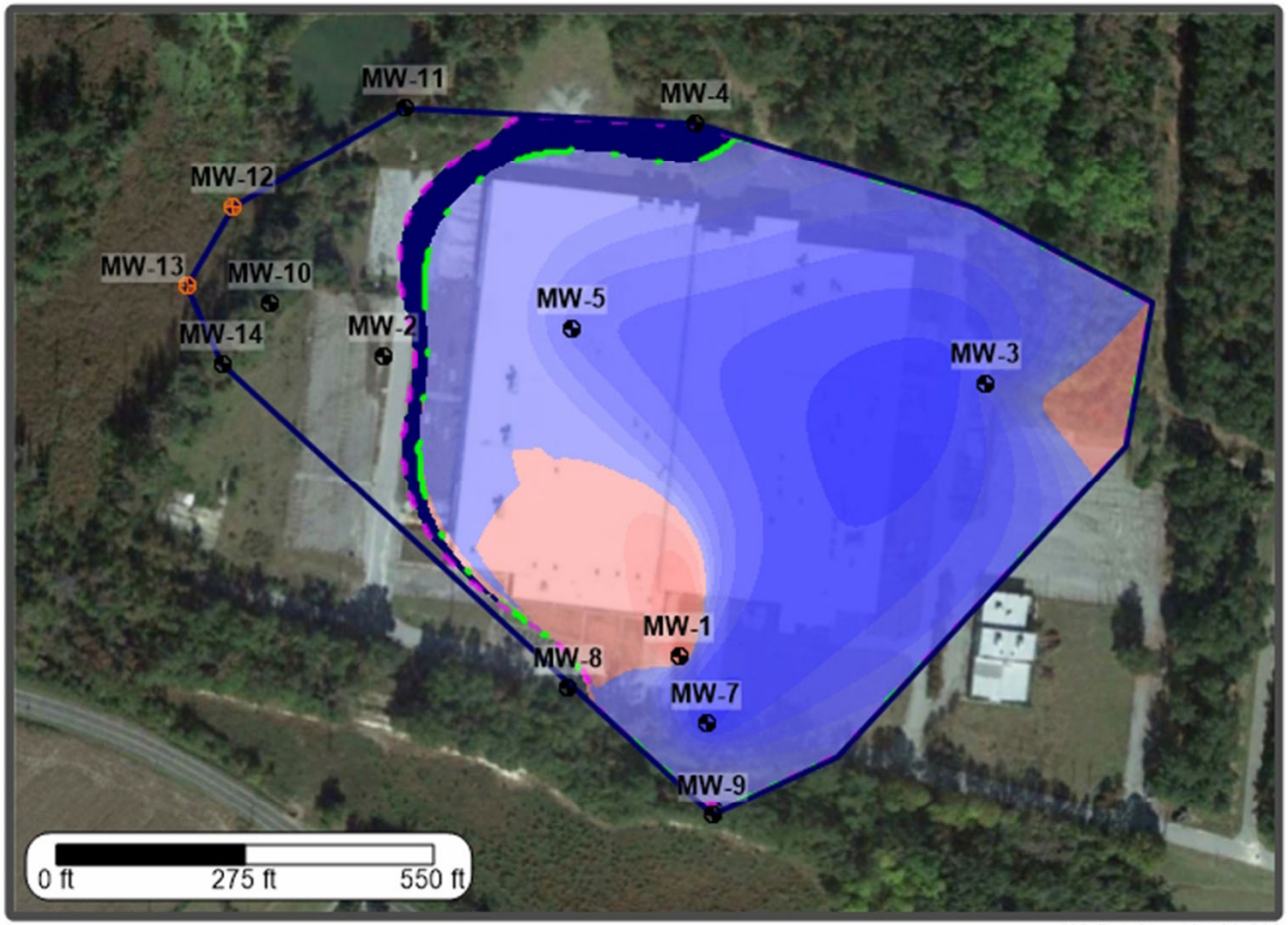


Concentration (nmol/L)

0 500 1,000 2,500 5,000 10,000 50,000 100,000 200,000 350,000

0 ft 500 ft 1,000 ft





US Pat. No. 10,400,583

Spatial Change Indicator™

Decrease — Increase

LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Plume Center of Mass
- Sep-2008 Plume Boundary
- Mar-2009 Plume Boundary

N

Plume Characteristics

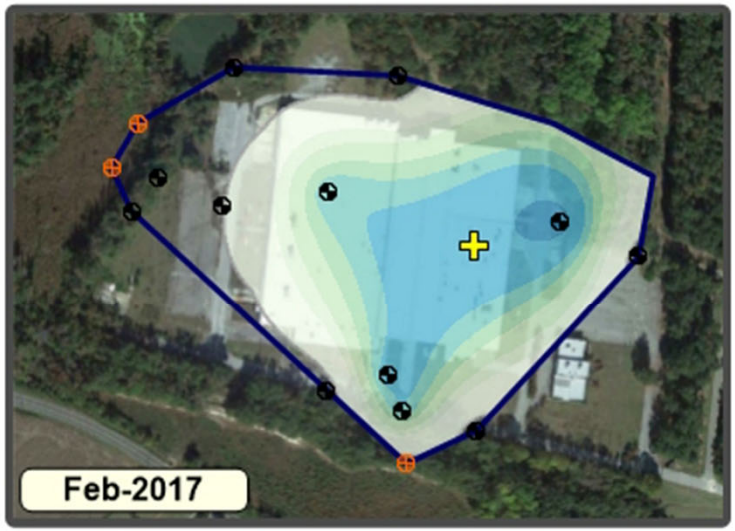
Area: **5% Decrease**
Average Concentration: **20% Decrease**
Mass Indicator: **24% Decrease**
Mass Increase: **5.87 moles Increase**
Mass Decrease: **801 moles Decrease**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

EARTHCON®
Member of WSP

Chloroethenes
Upper Shallow

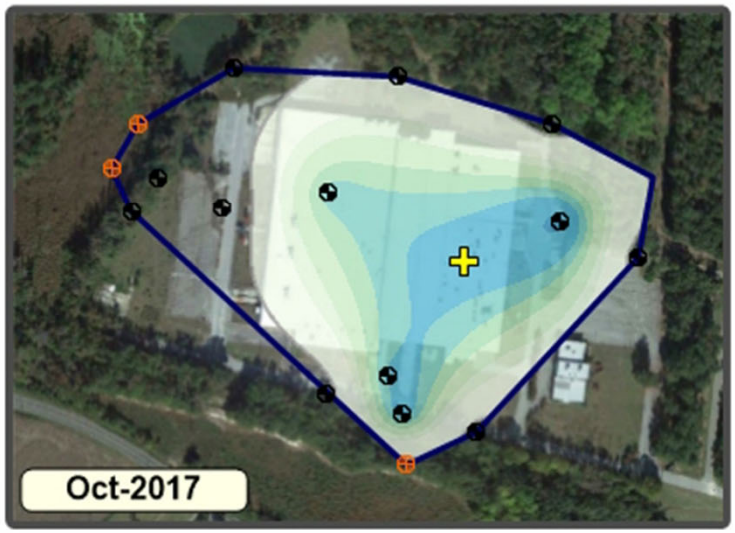
Plume Differences Feb-2017 vs Oct-2017

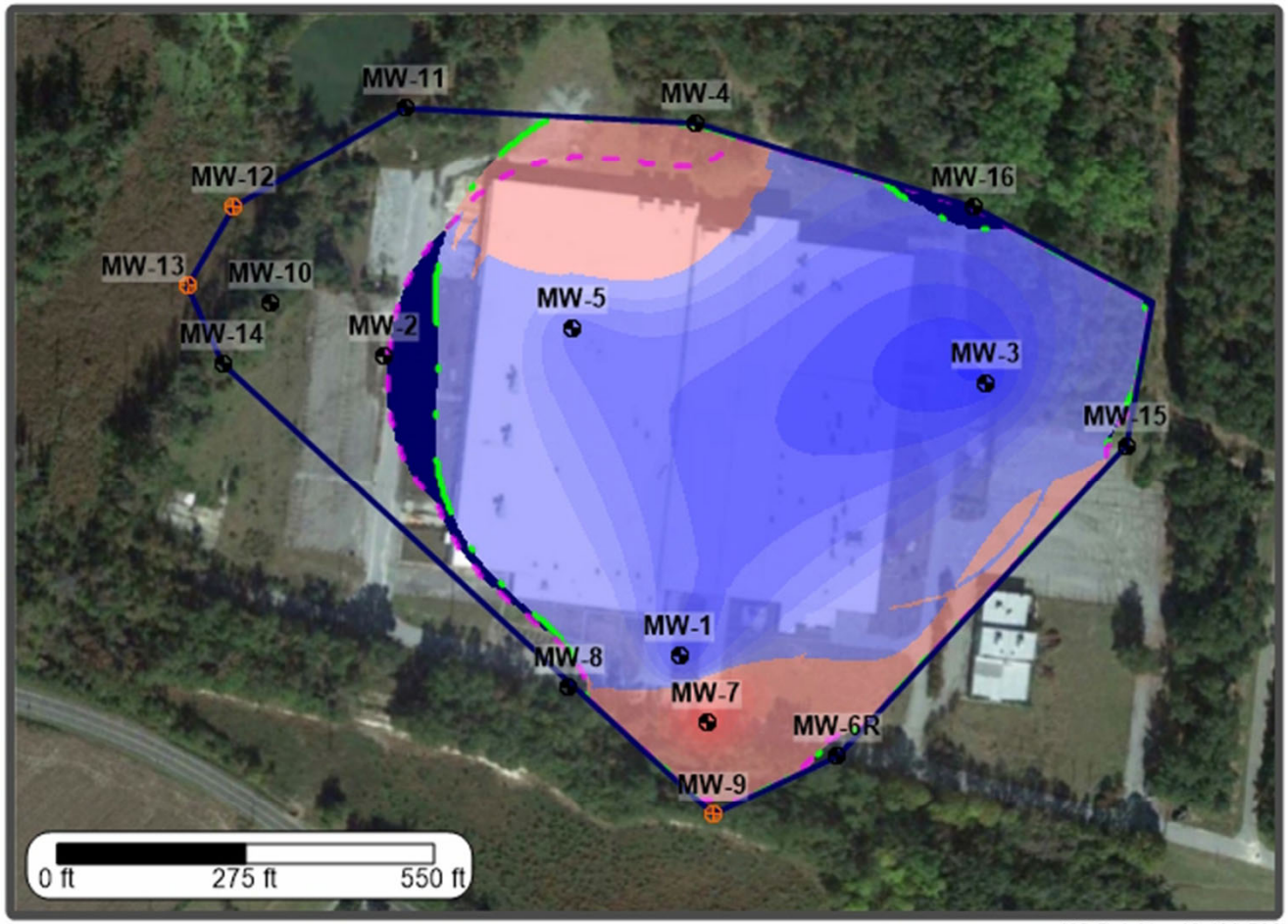


Concentration (nmol/L)

0 500 1,000 2,500 5,000 10,000 50,000 100,000 200,000 350,000

0 ft 500 ft 1,000 ft





US Pat. No. 10,400,583

Spatial Change Indicator™

Decrease — Increase

LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Plume Center of Mass
- Feb-2017 Plume Boundary
- Oct-2017 Plume Boundary

N

Plume Characteristics

Area: **1% Decrease**
Average Concentration: **41% Decrease**
Mass Indicator: **41% Decrease**
Mass Increase: **4.64 moles Increase**
Mass Decrease: **197 moles Decrease**

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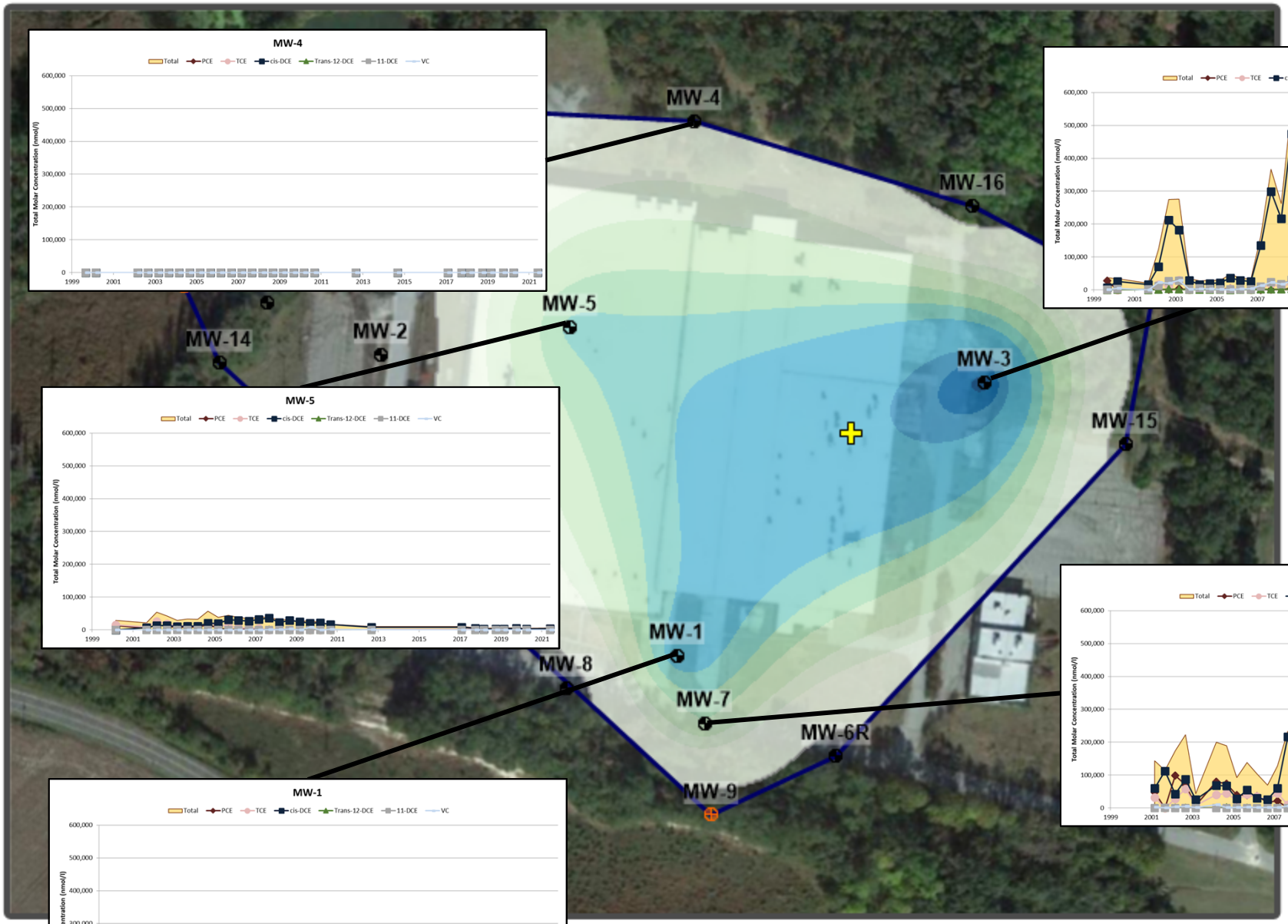
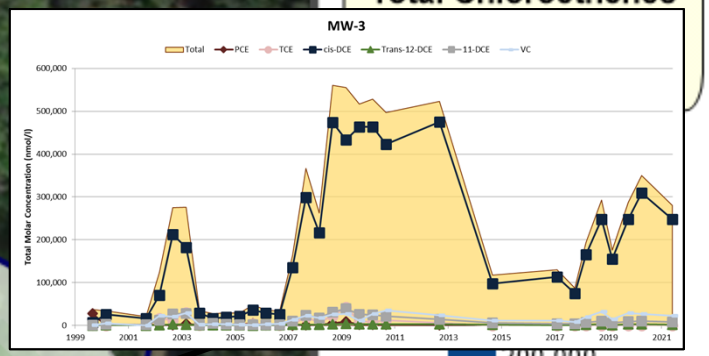
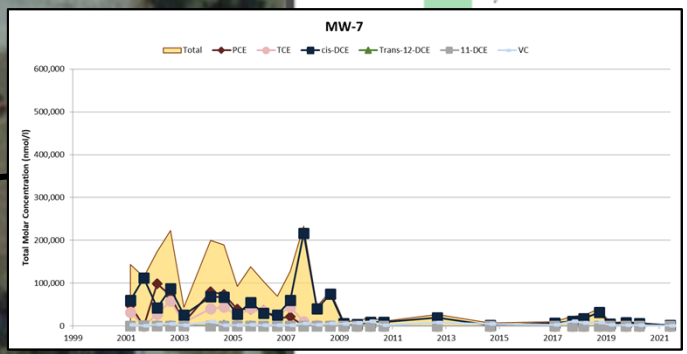


Total Chloroethenes

200,000
100,000
50,000
10,000
5,000





Plume Characteristics

Plume Area: **16.2 acres**
Plume Average Concentration: **7,852 nmol/L**
Plume Mass Indicator: **470 moles**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

Plume Center of Mass

N

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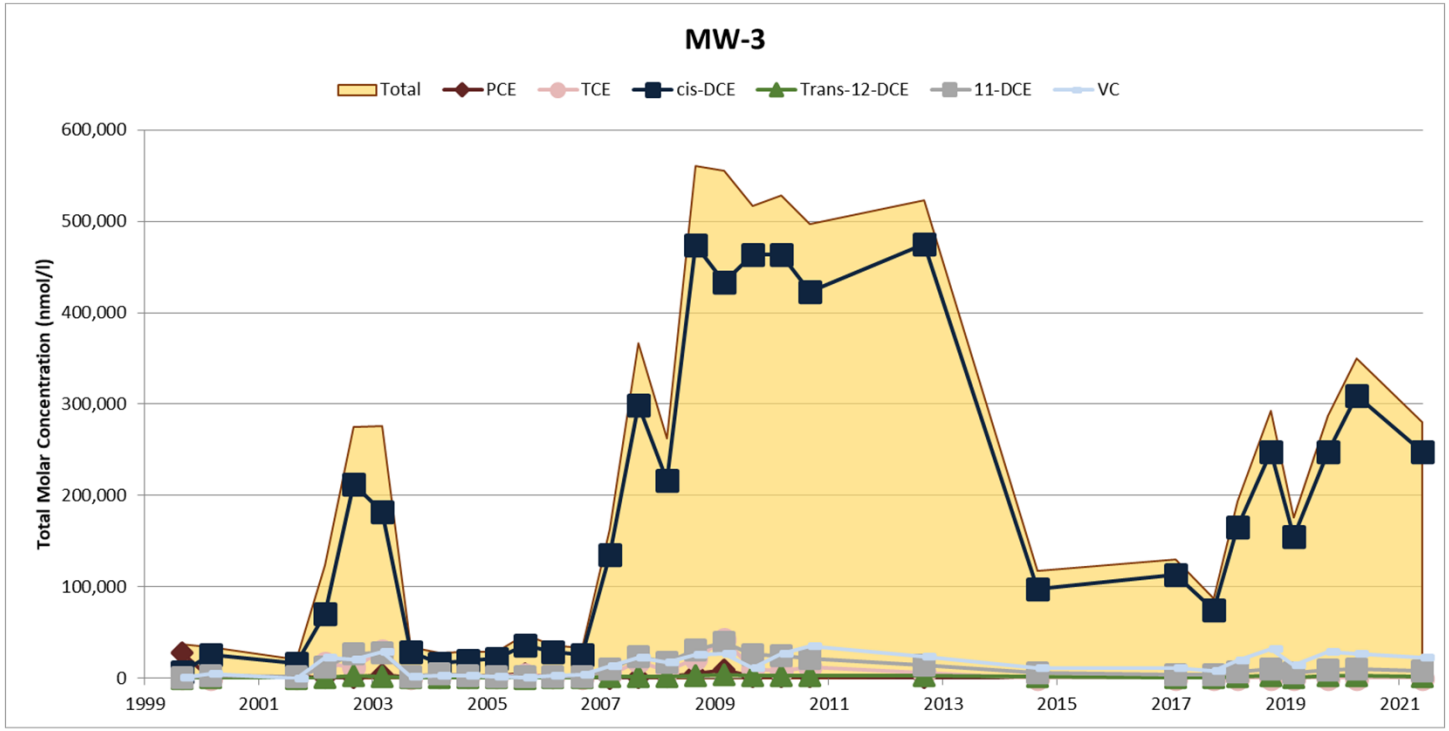

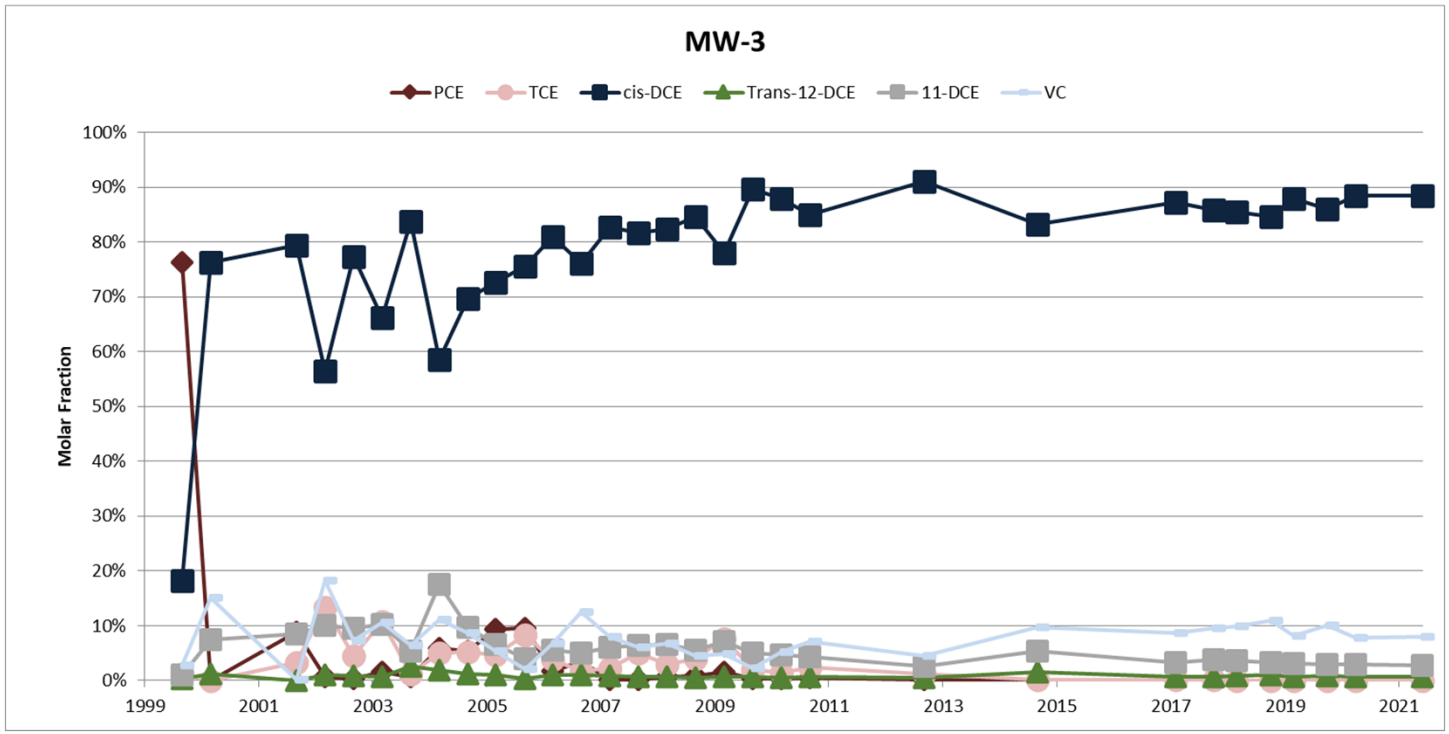

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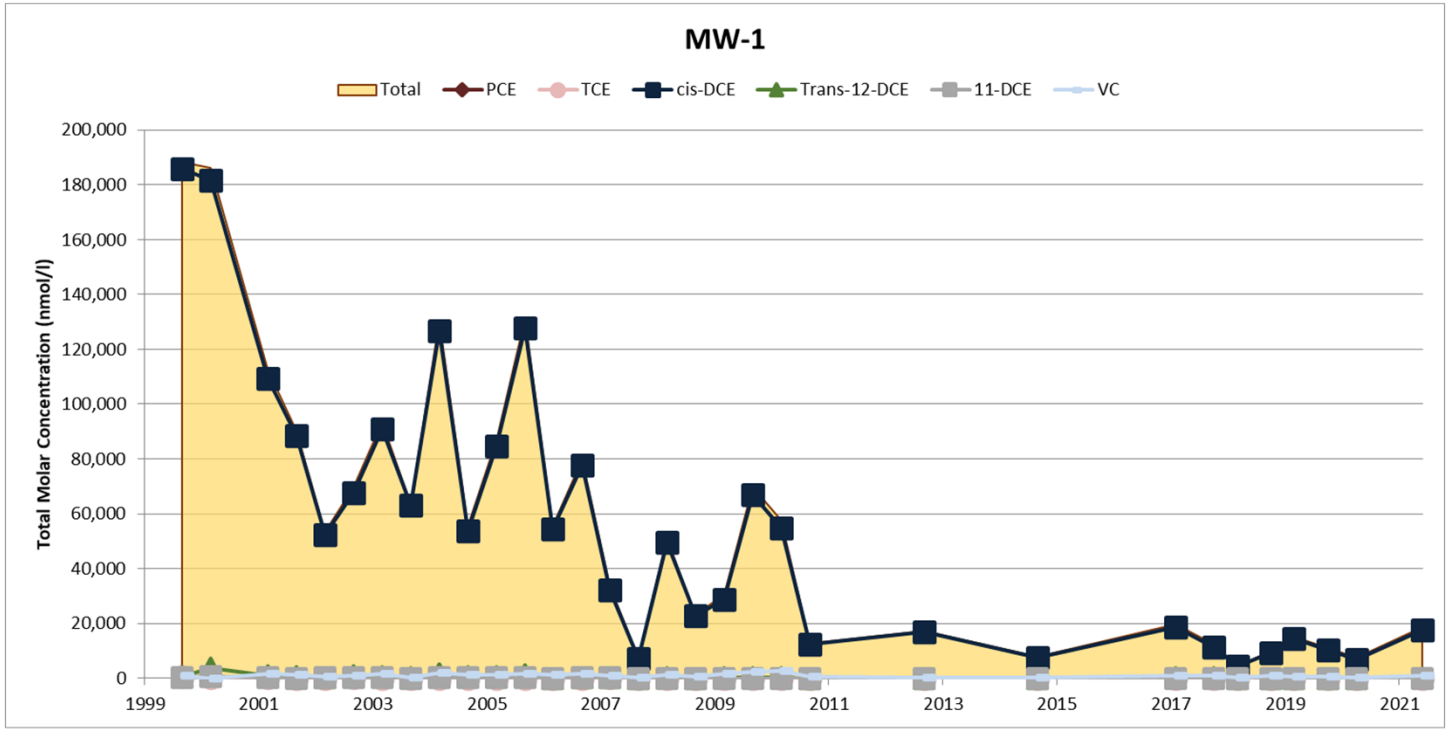

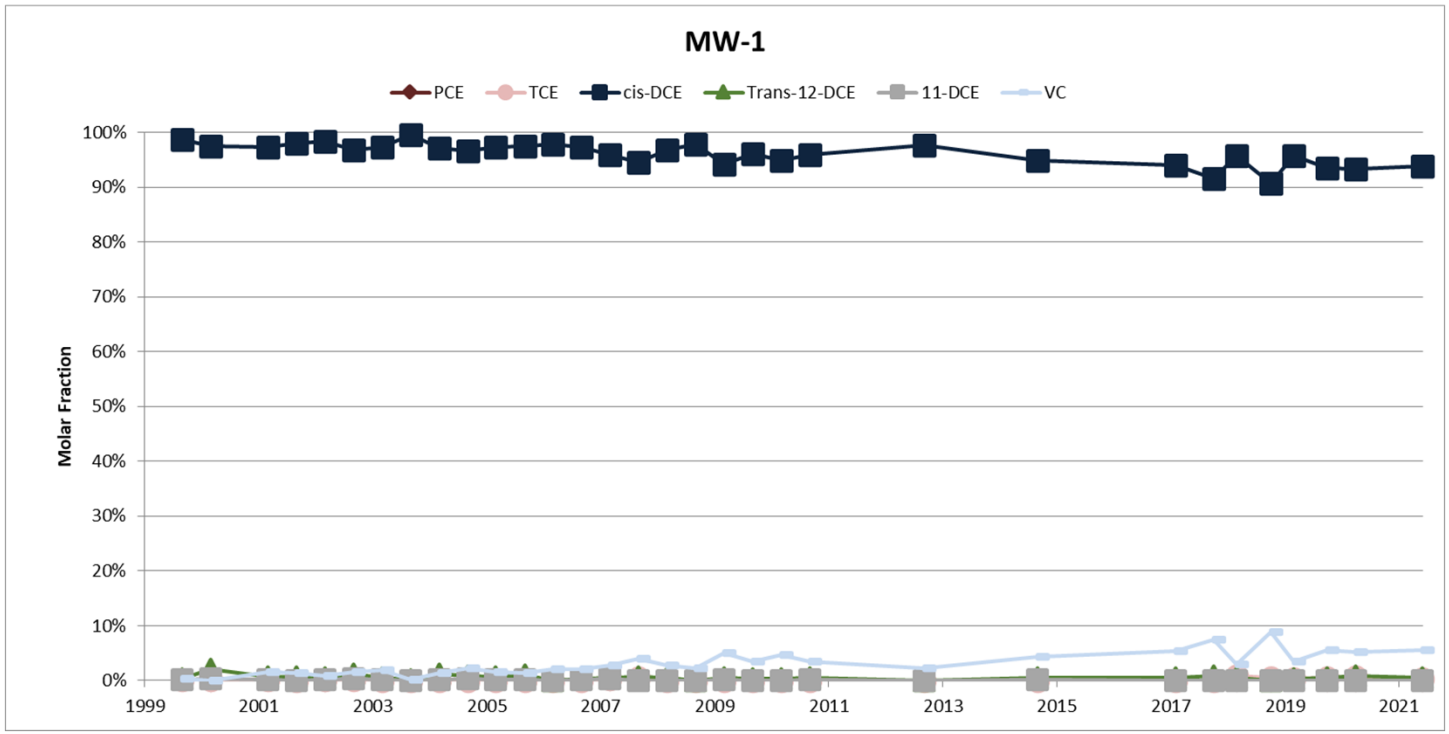

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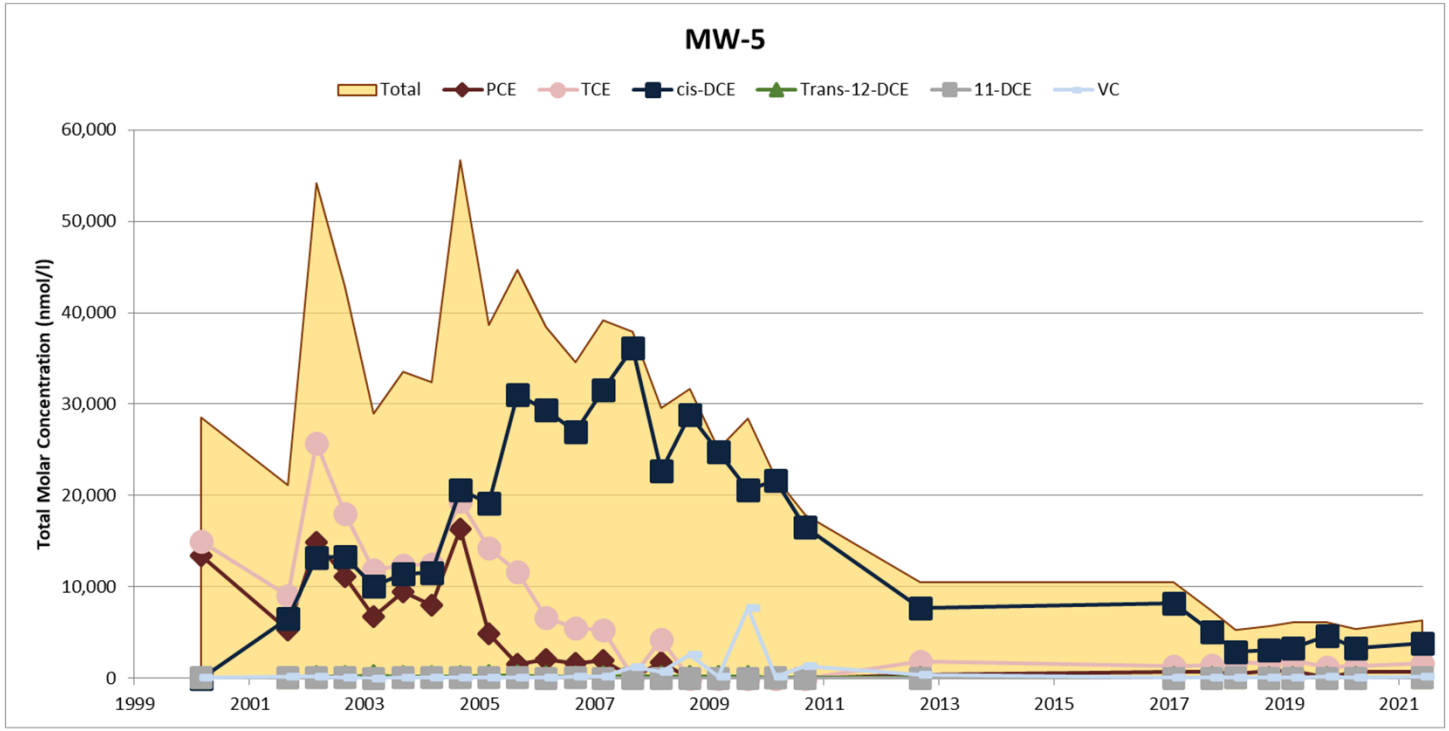

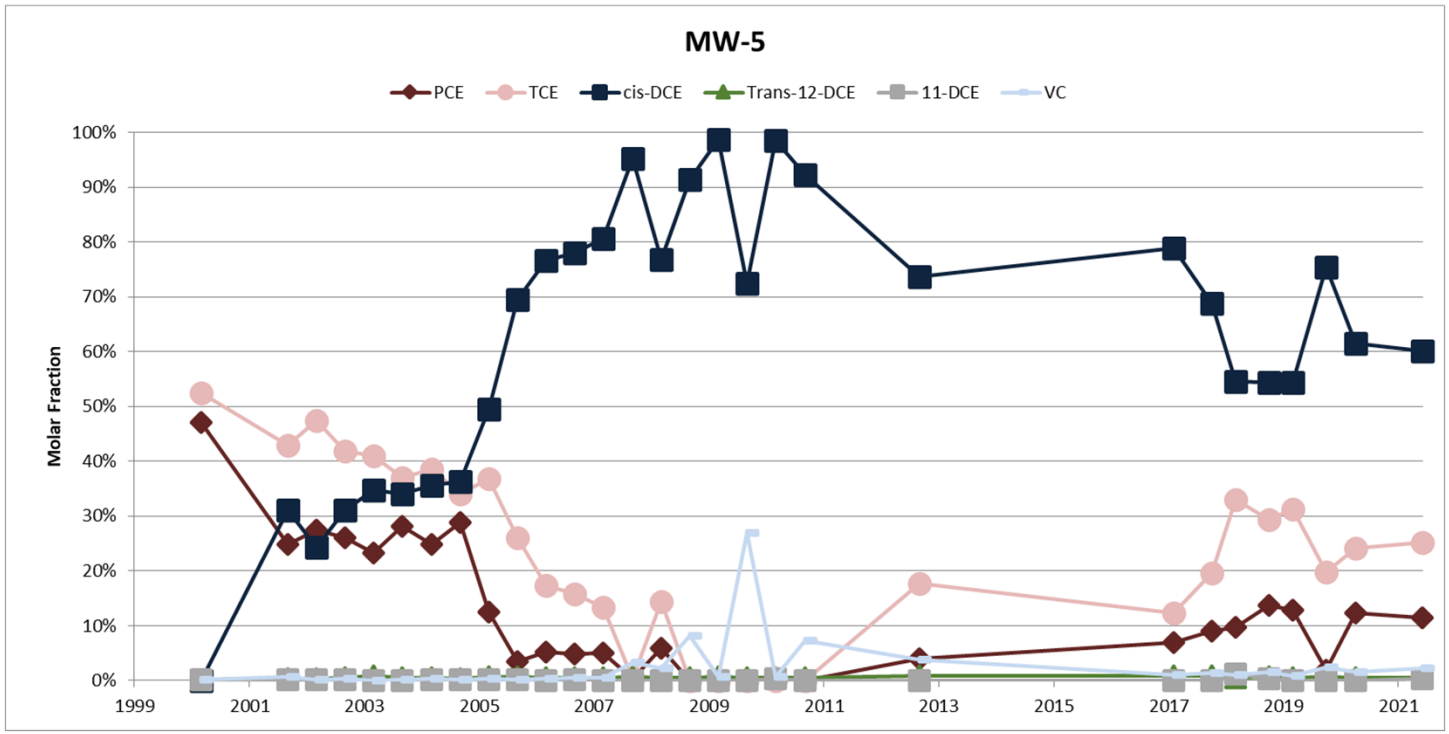

EARTHCON
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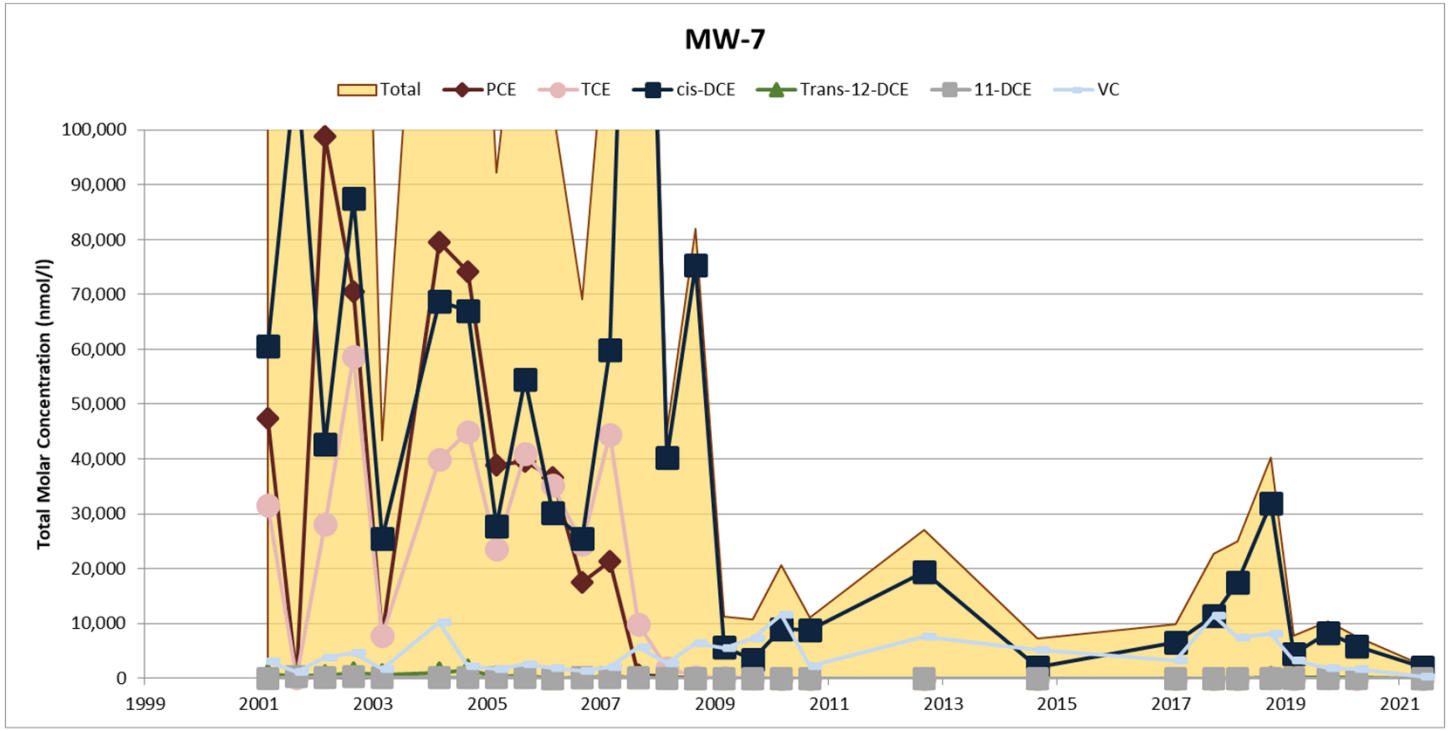

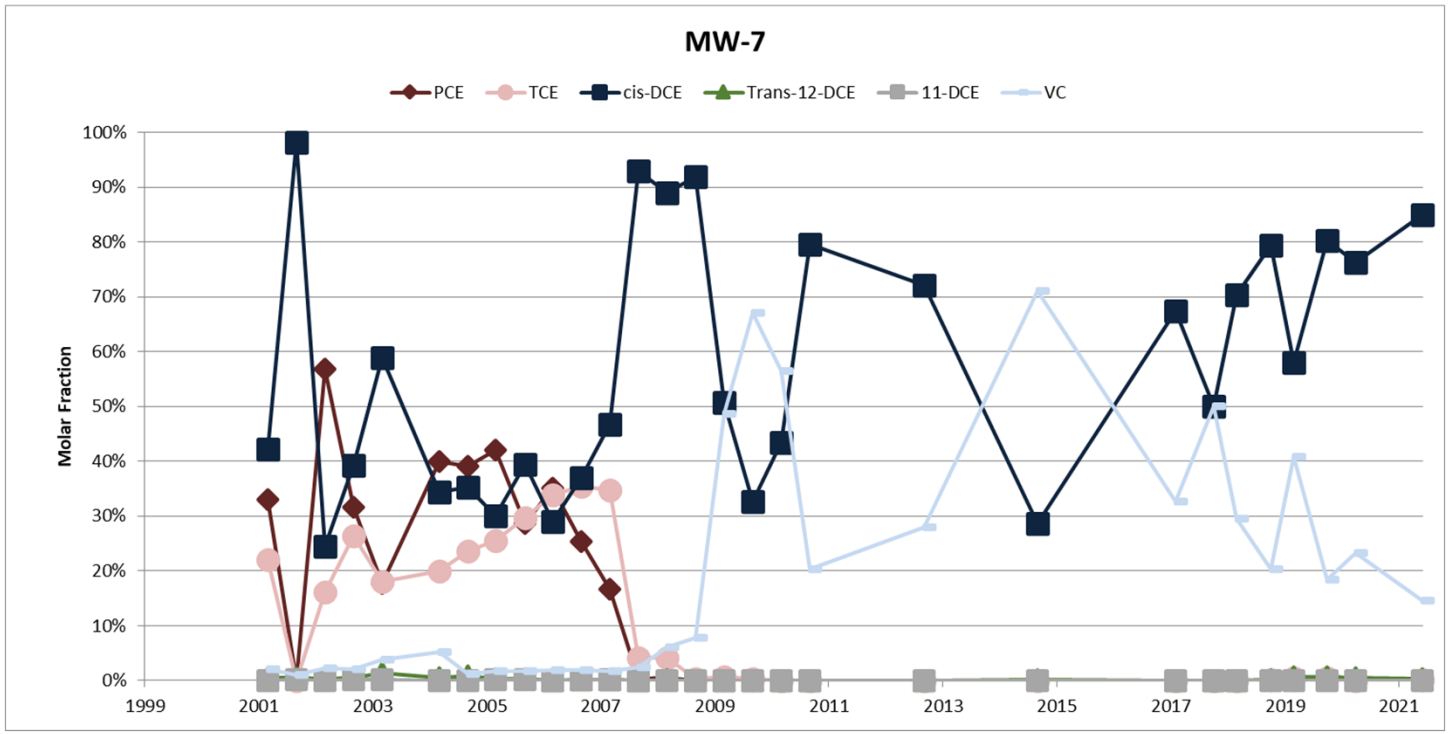

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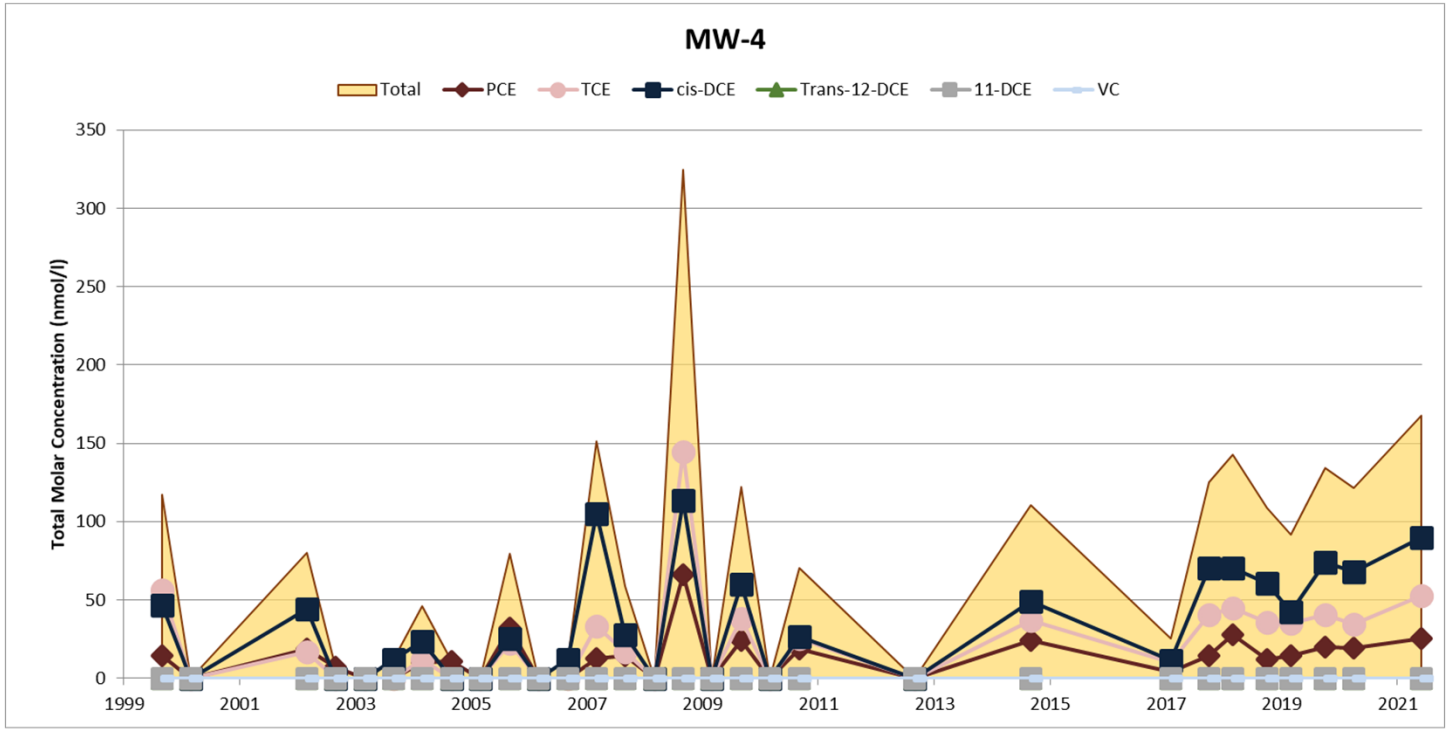
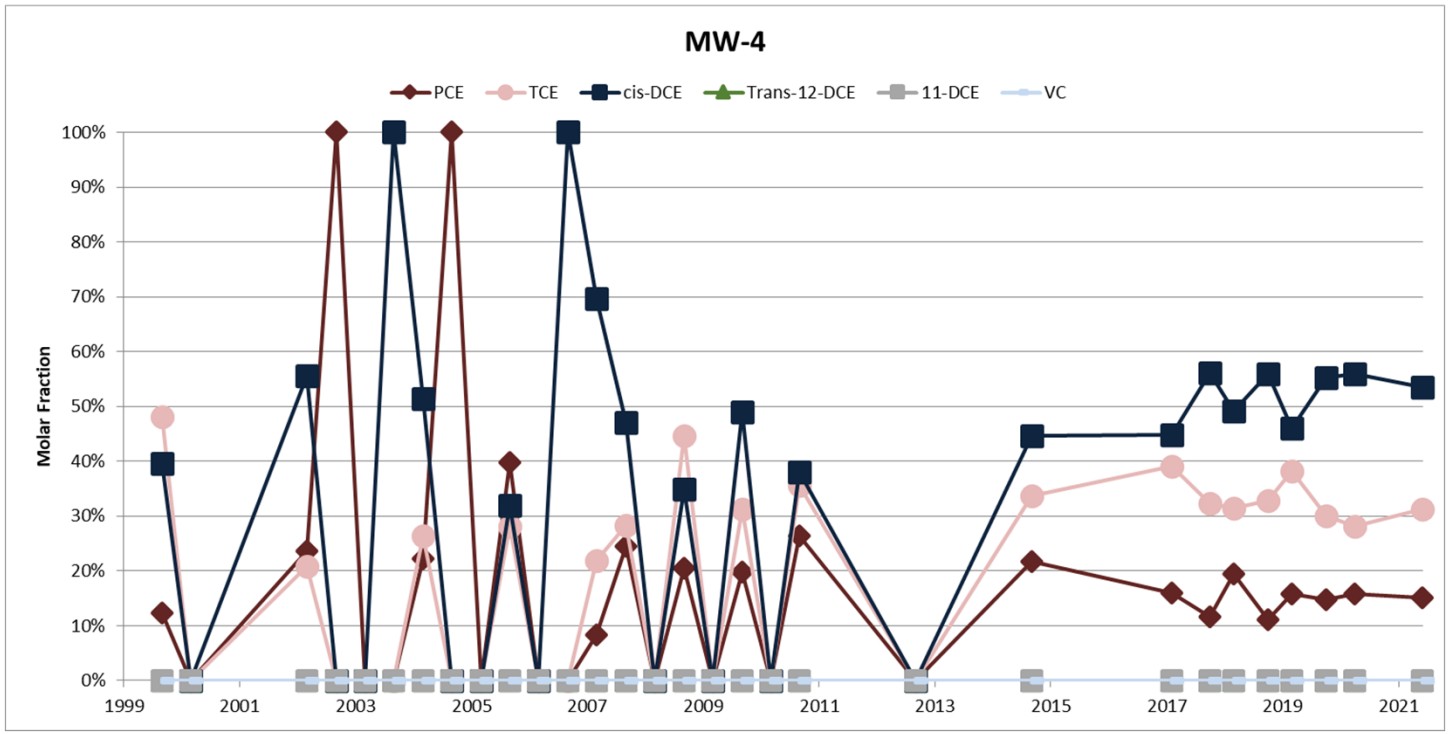
Member of WSP





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1,1,2-TCA
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
70
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

N

MW-1 Monitoring Well

MW-5 Hanging Well

112 Concentration (µg/L)

NS (140) Well Not Sampled (Assigned Value Shown)

Plume Center of Mass

Plume Characteristics

Plume Area: **5.6 acres**
Plume Average Concentration: **8.3 µg/L**
Plume Mass Indicator: **0.38 lbs**

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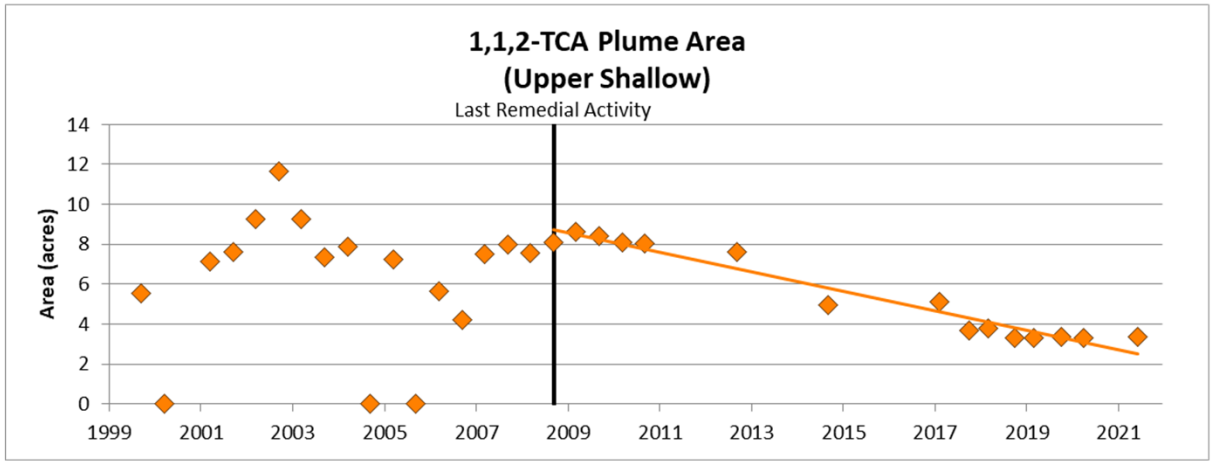
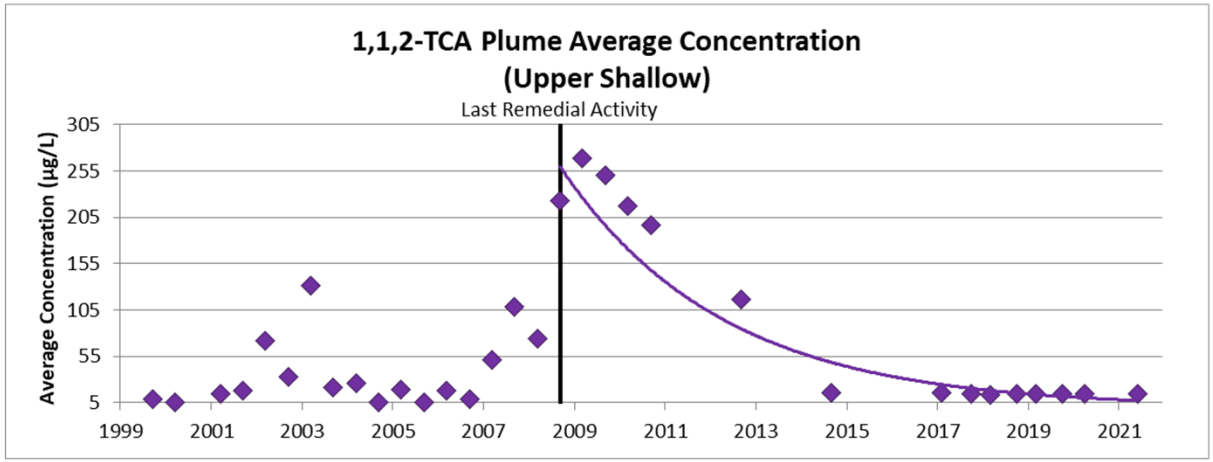
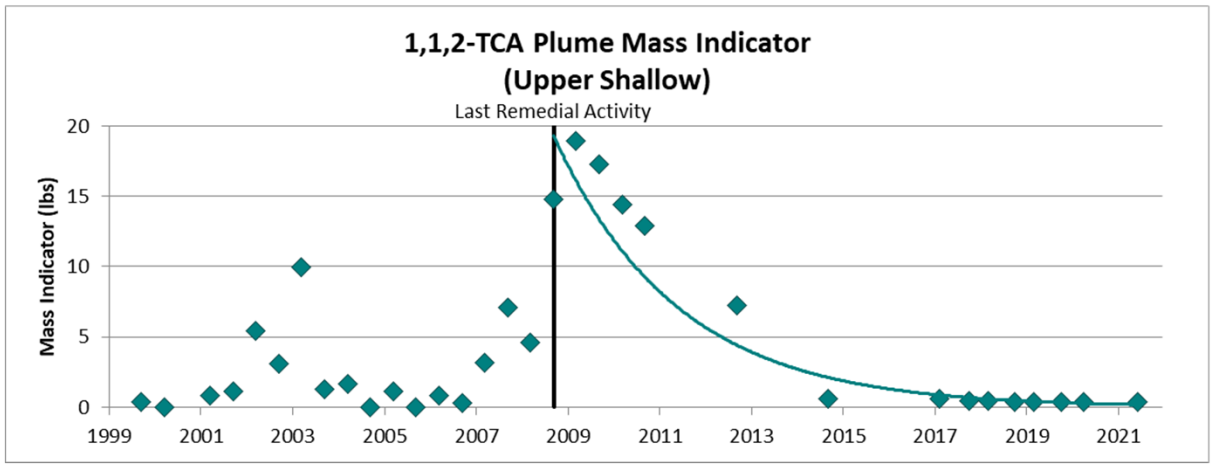


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

EARTHCON®
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1,1,1-TCA
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
200 MCL
100
70
25
15
10
5

0 ft 215 ft 430 ft

N

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

Plume Characteristics

Plume Area: **5.6 acres**
Plume Average Concentration: **8.3 µg/L**
Plume Mass Indicator: **0.38 lbs**

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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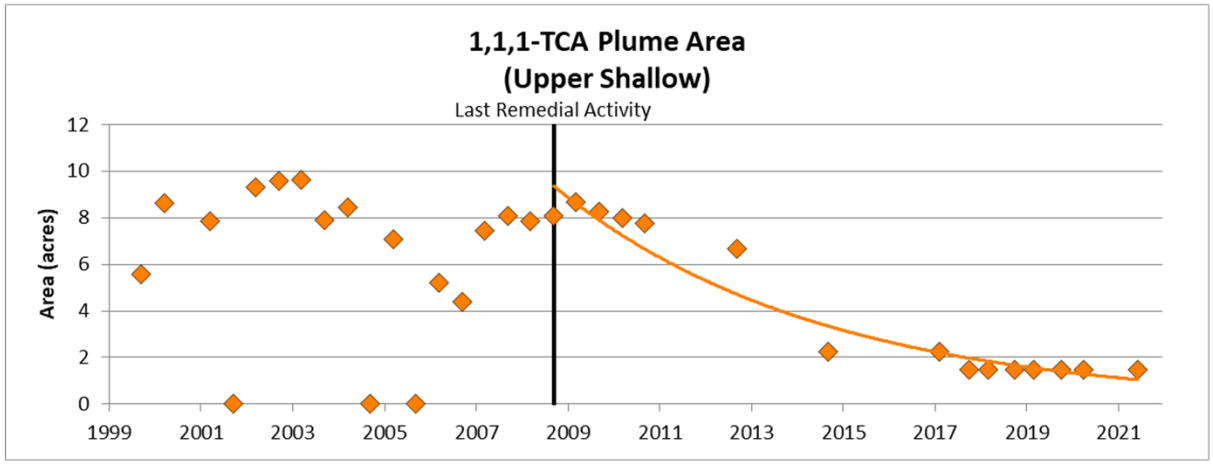
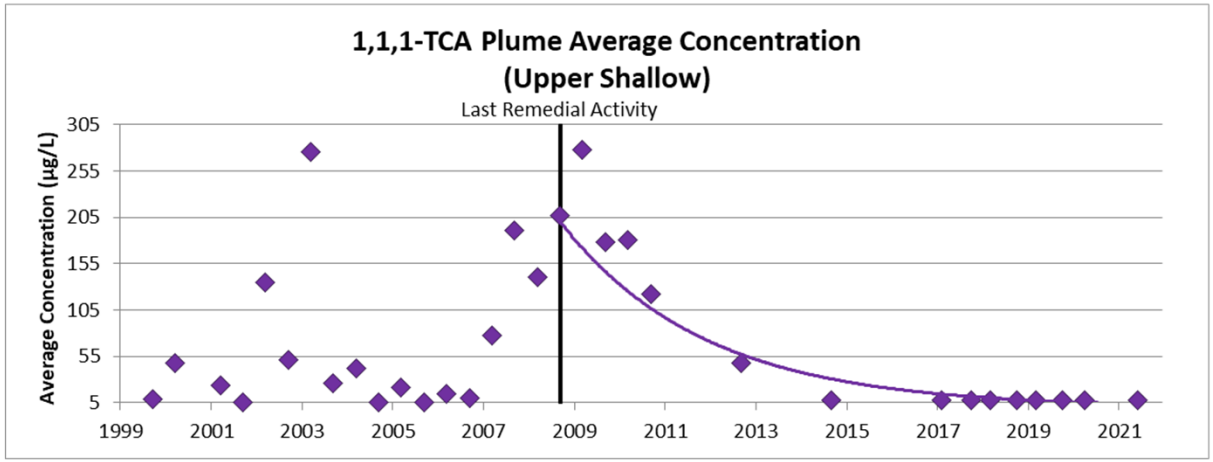
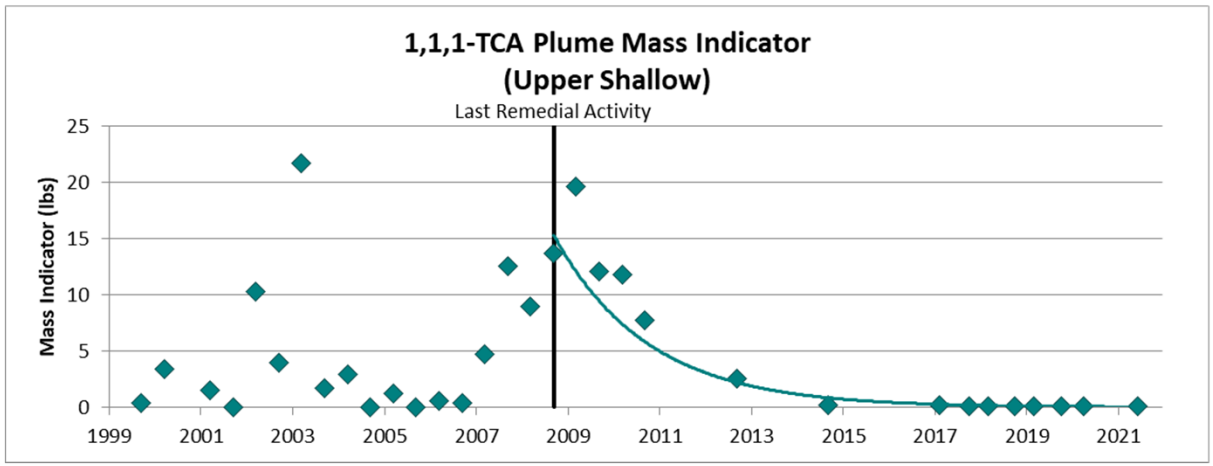
Member of WSP



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

EARTHCON
Member of WSP

1,2-DCA
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
70
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-5 — Hanging Well
- 112 — Concentration (µg/L)
- NS (140) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **2.7 acres**
Plume Average Concentration: **5.8 µg/L**
Plume Mass Indicator: **0.13 lbs**

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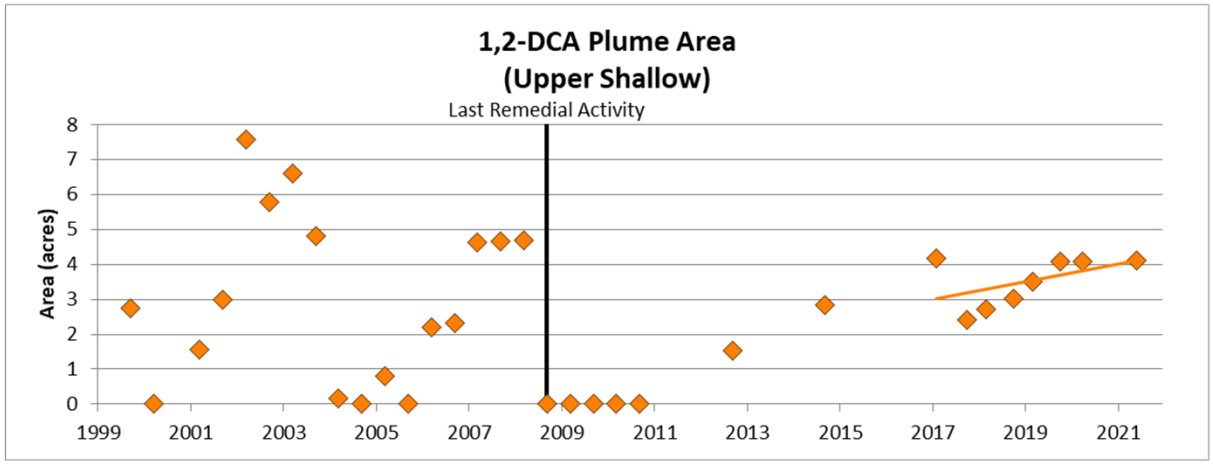
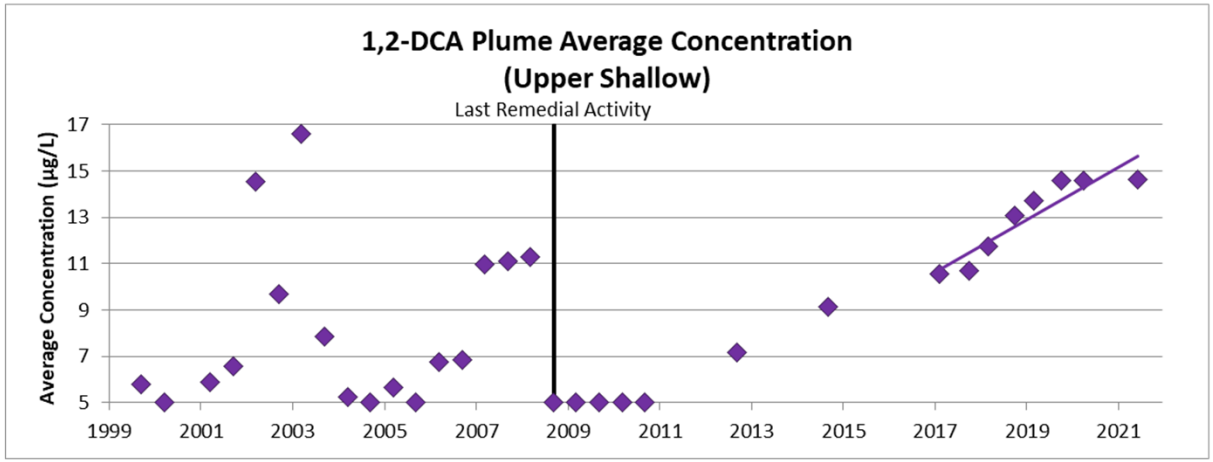
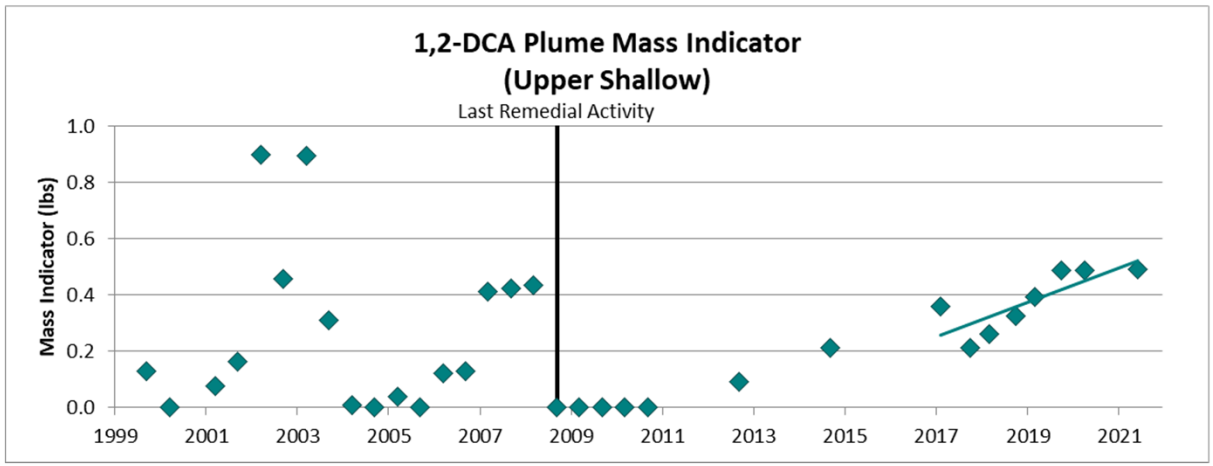
Member of WSP



Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 95% Confidence
Regression: 79% Confidence

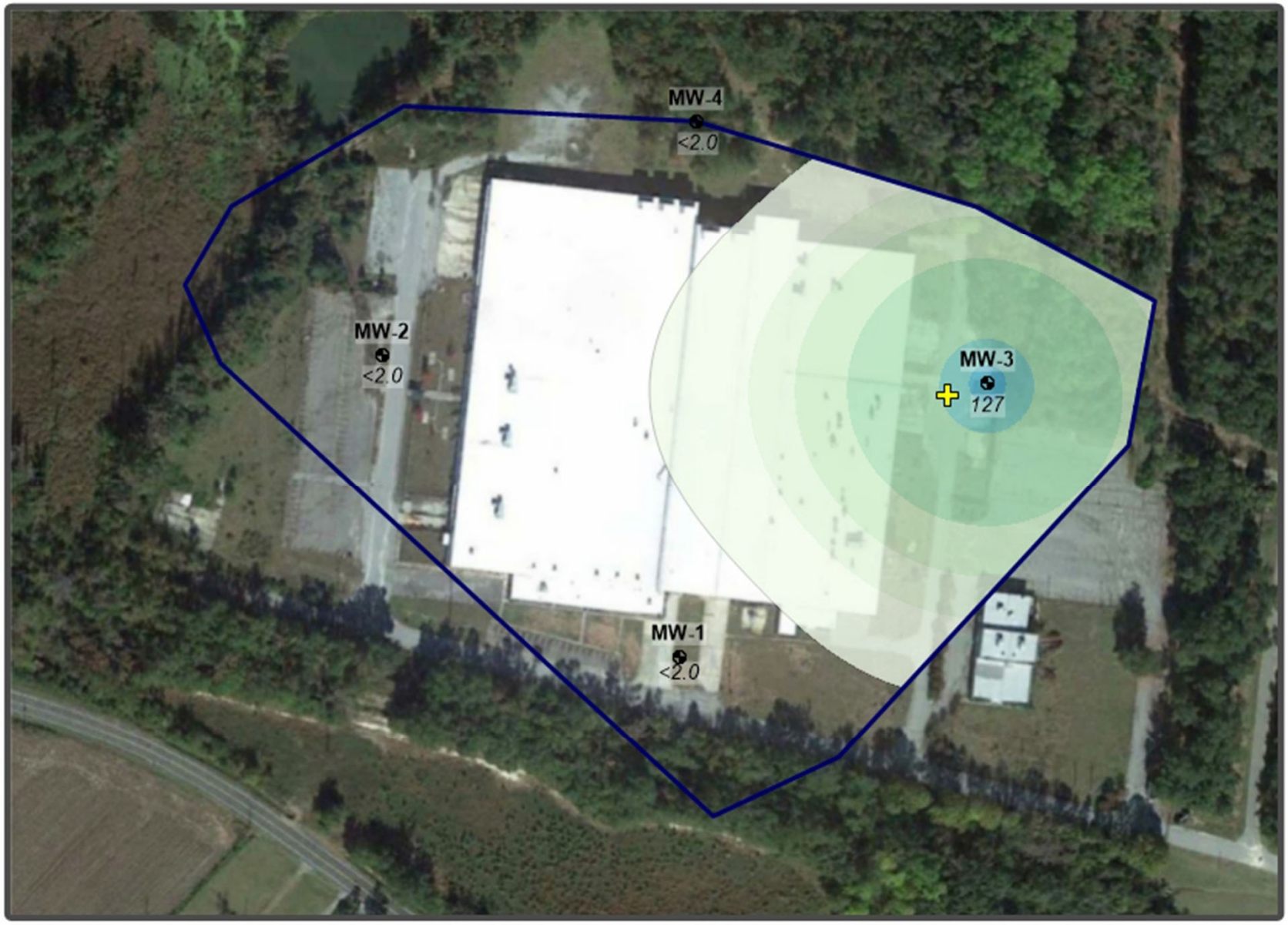


Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence



Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: >99% Confidence
Regression: 98% Confidence

EARTHCON®
Member of WSP



1,1-DCA
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
750
500
250
100
70
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-5 — Hanging Well
- 112 — Concentration (µg/L)
- NS (140) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass

N

Plume Characteristics

Plume Area: **8.4 acres**
Plume Average Concentration: **23.2 µg/L**
Plume Mass Indicator: **1.6 lbs**

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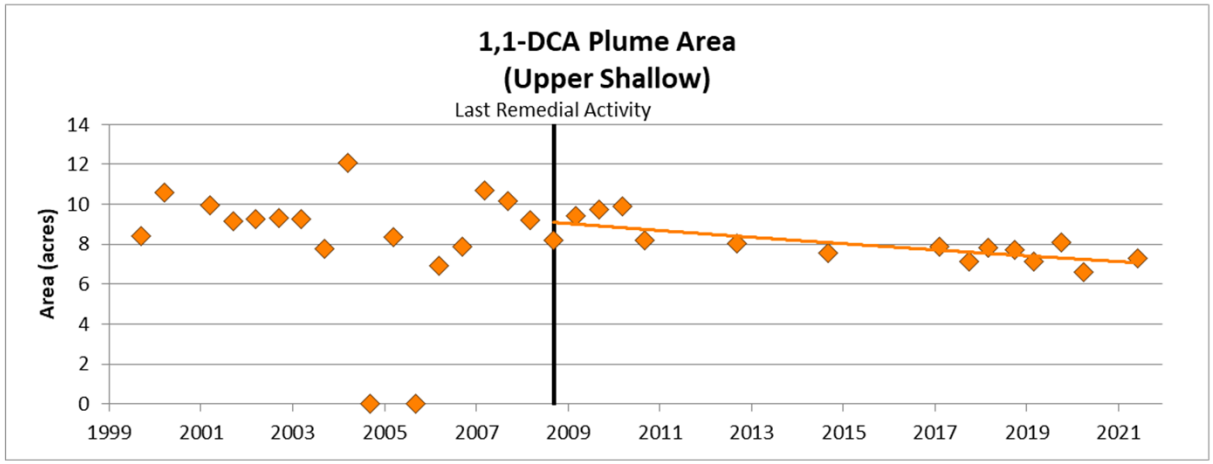
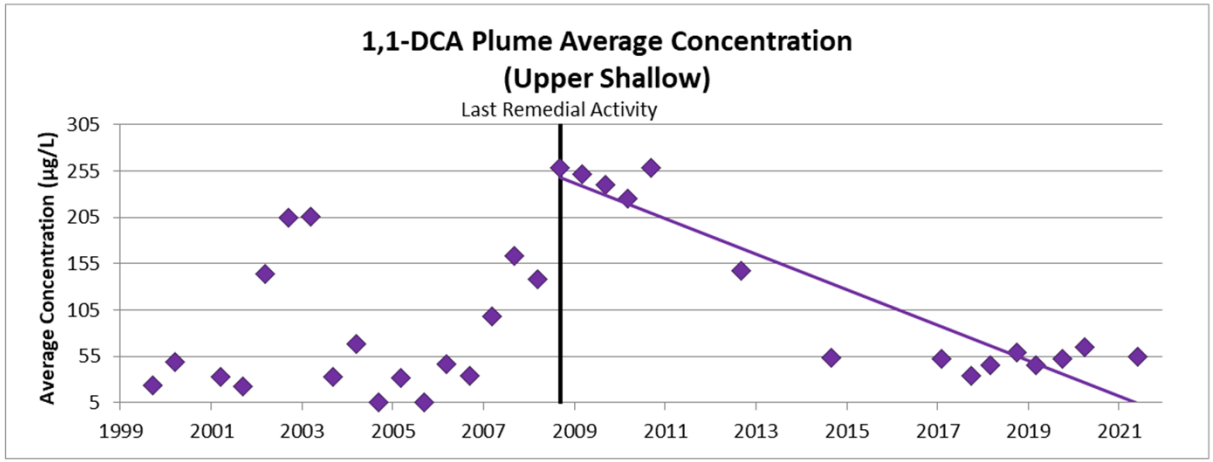
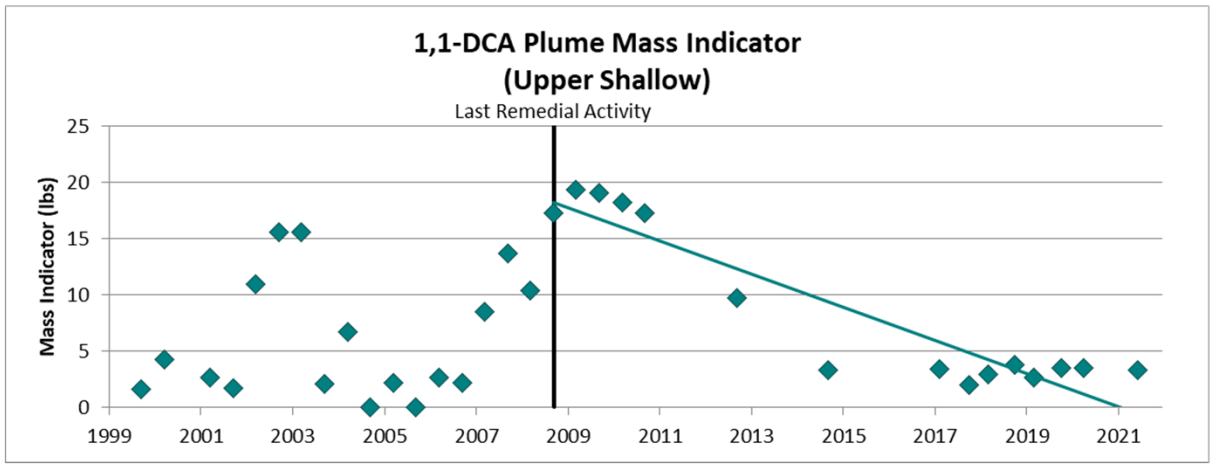


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

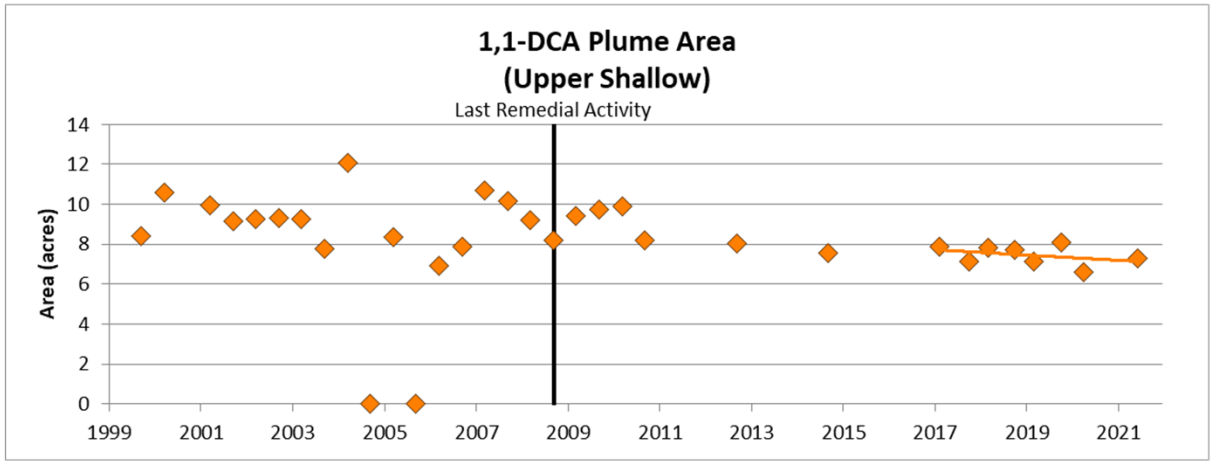


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

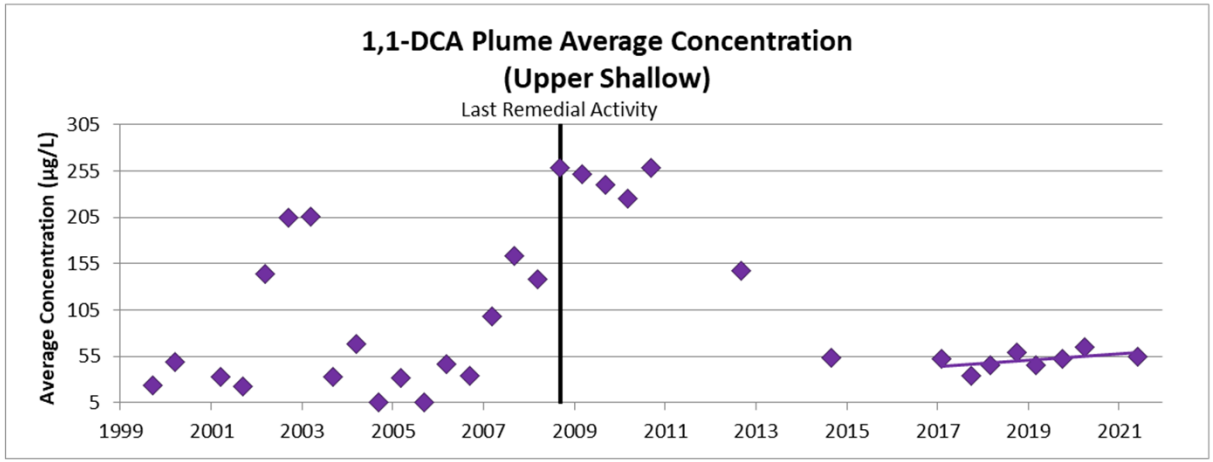


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

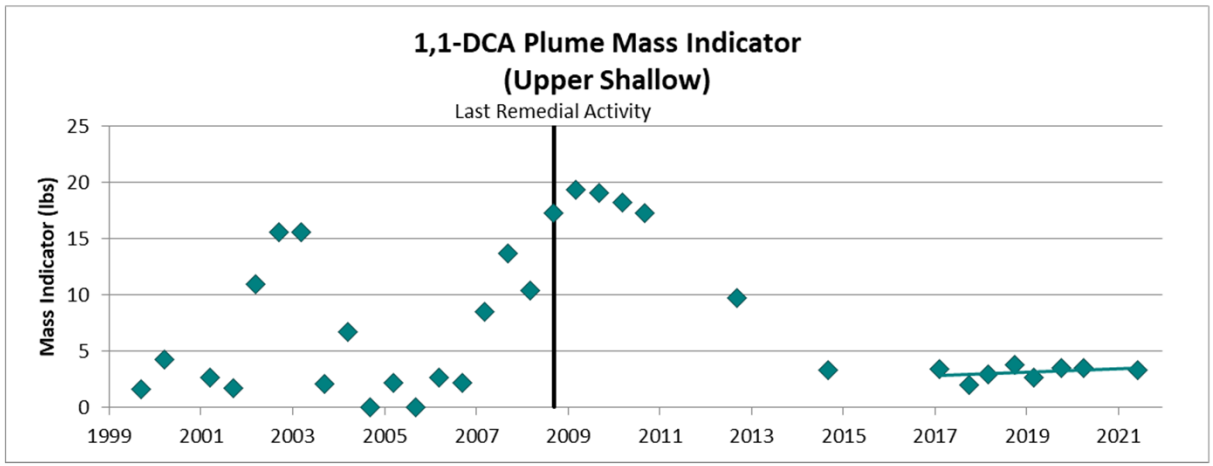
EARTHCON
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 63% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 86% Confidence
Regression: 80% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 73% Confidence
Regression: 61% Confidence

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Total Chloroethanes
Upper Shallow
Sep-1999

Concentration (nmol/L)

350,000
200,000
100,000
50,000
10,000
5,000
2,500
1,000
500
0

0 ft 215 ft 430 ft

Plume Characteristics

Plume Area: **8.4 acres**
Plume Average Concentration: **339 nmol/L**
Plume Mass Indicator: **10.5 moles**

LEGEND

MW-1 Monitoring Well

MW-3 Hanging Well

Plume Center of Mass

N

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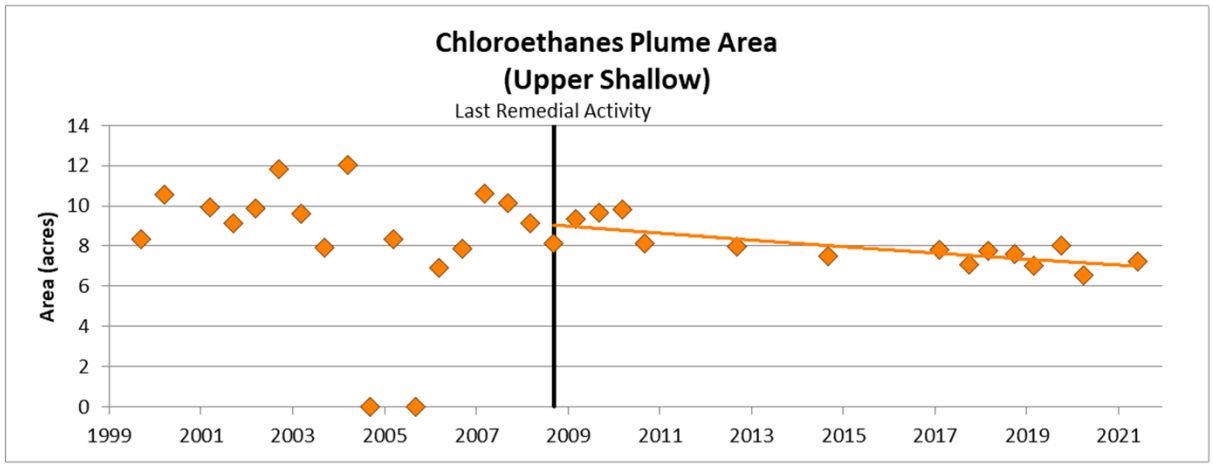
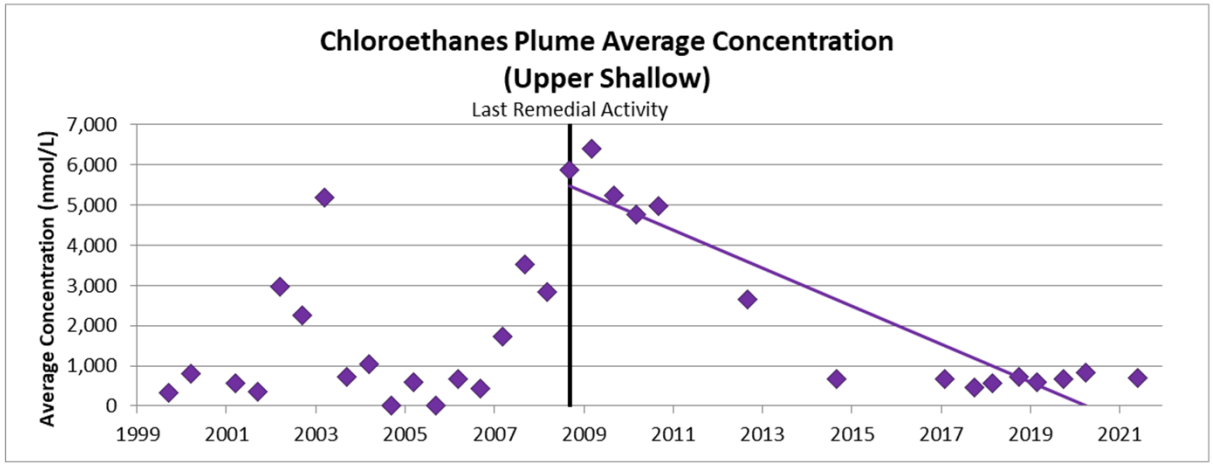
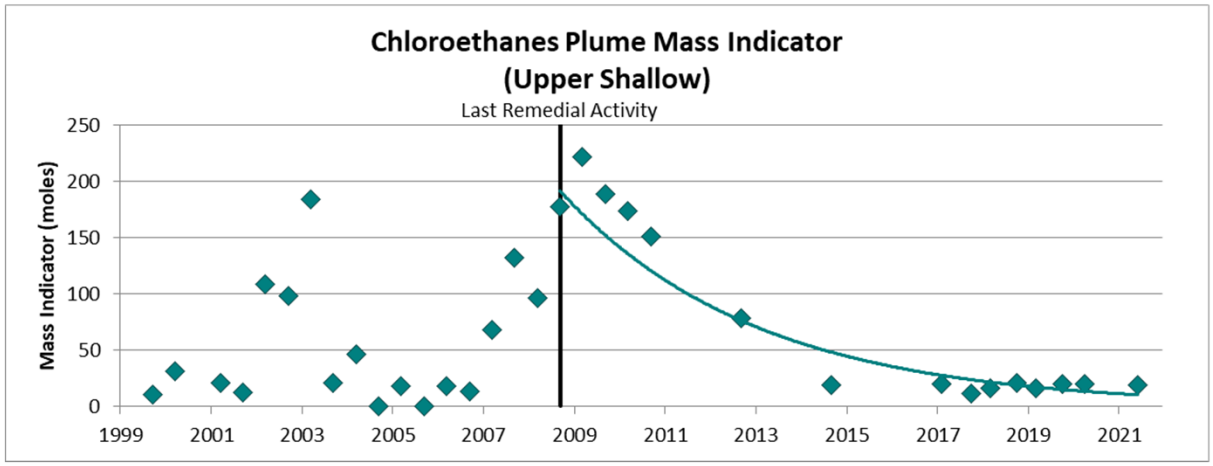


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

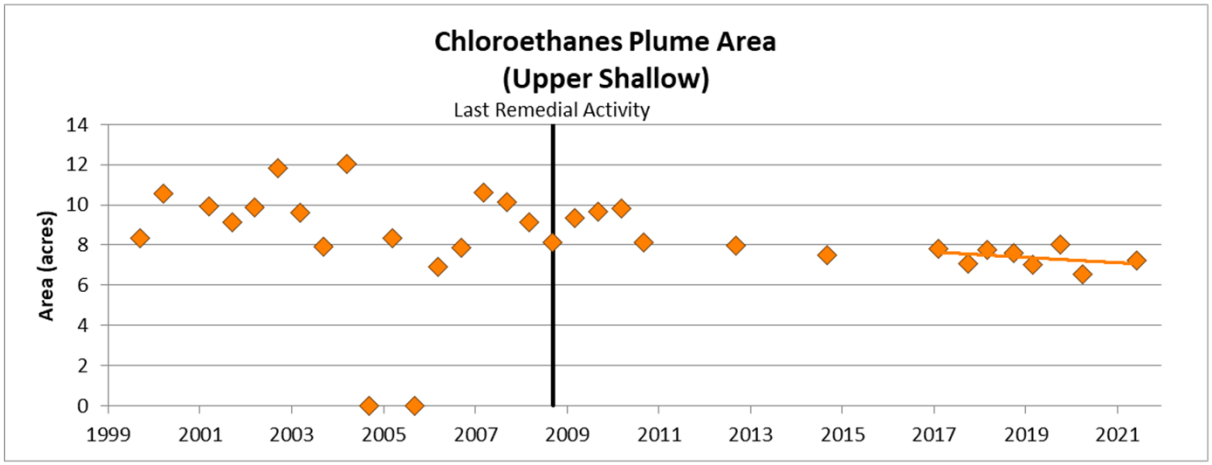


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

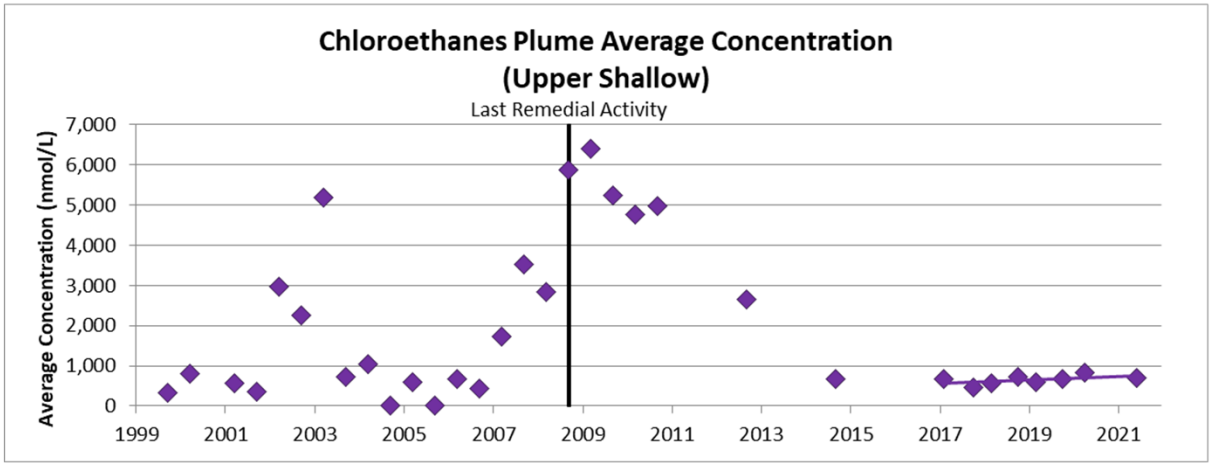


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

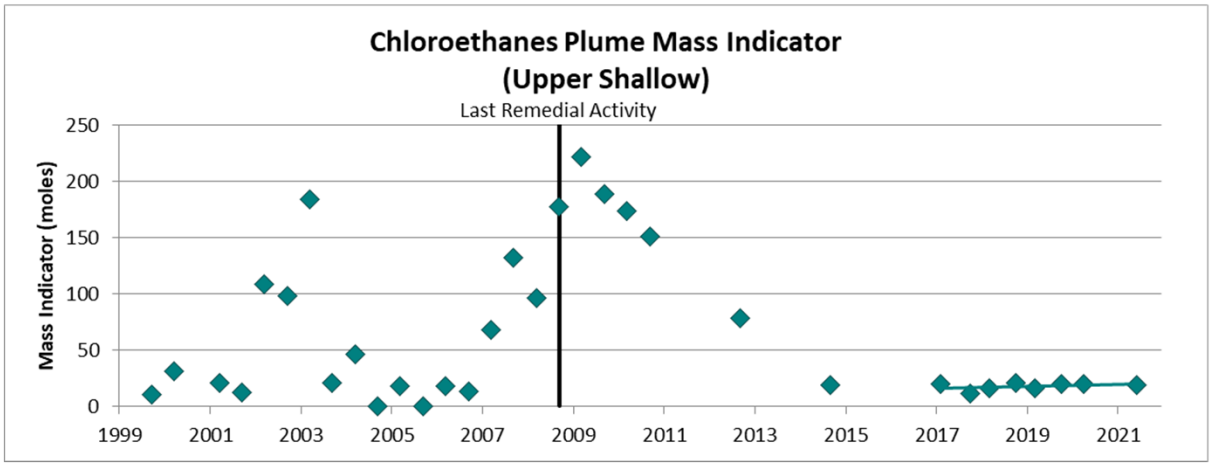
EARTHCON
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 80% Confidence
Regression: 63% Confidence



Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 91% Confidence
Regression: 83% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 64% Confidence
Regression: 63% Confidence

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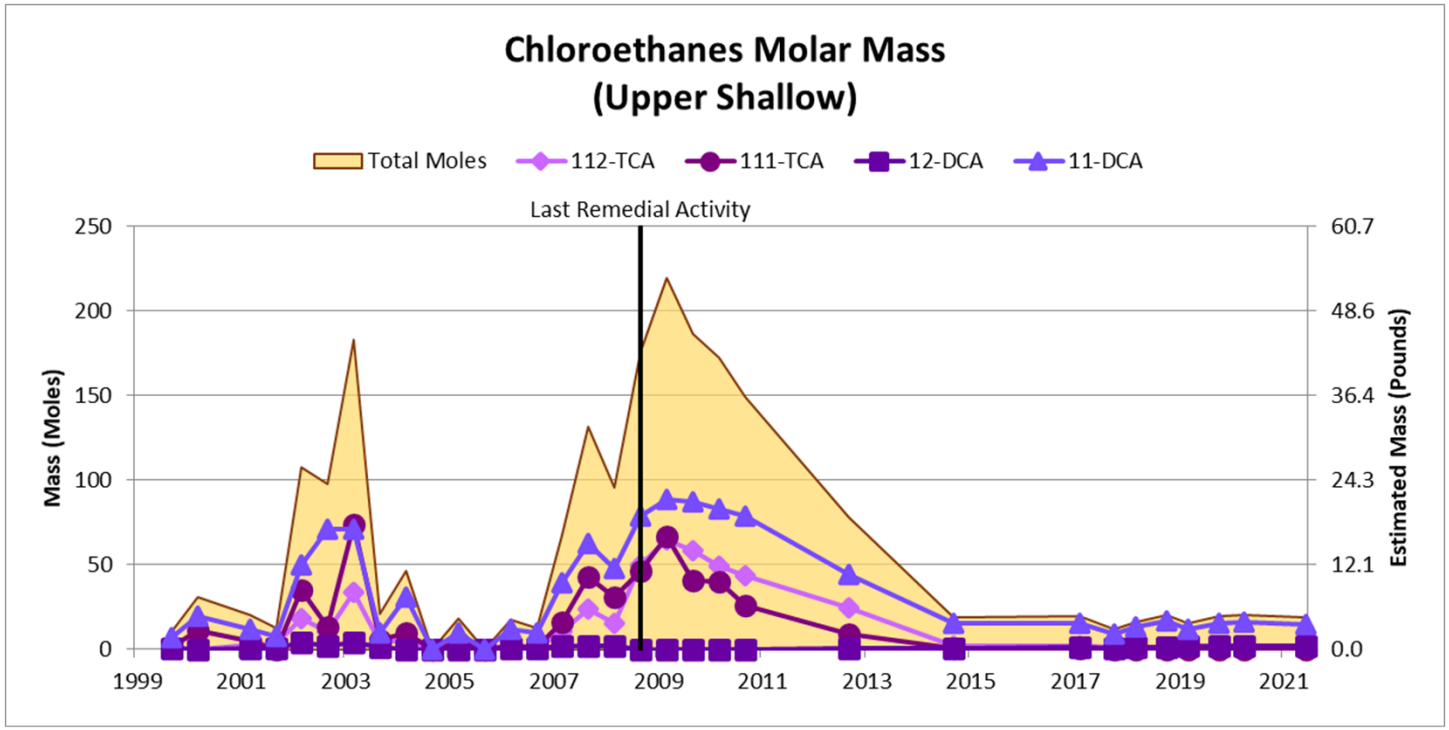
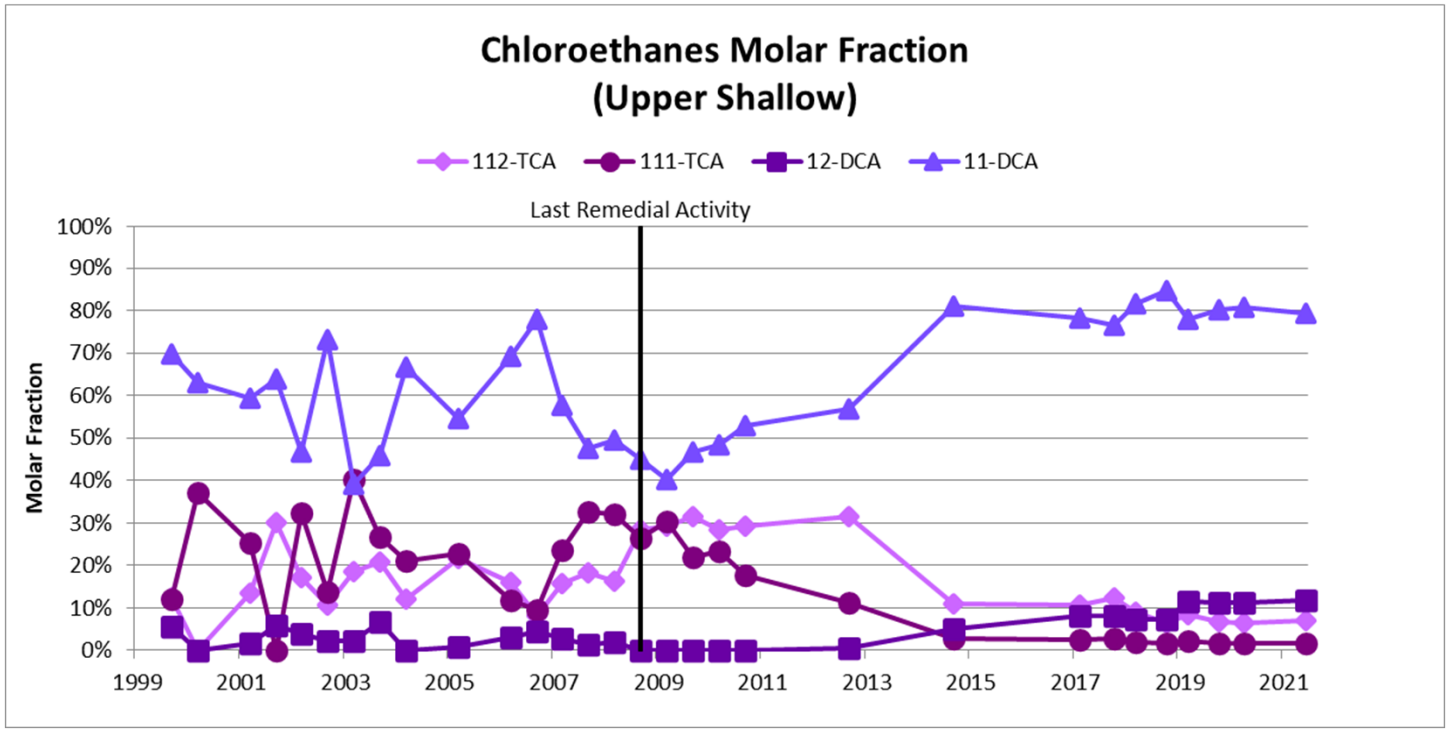
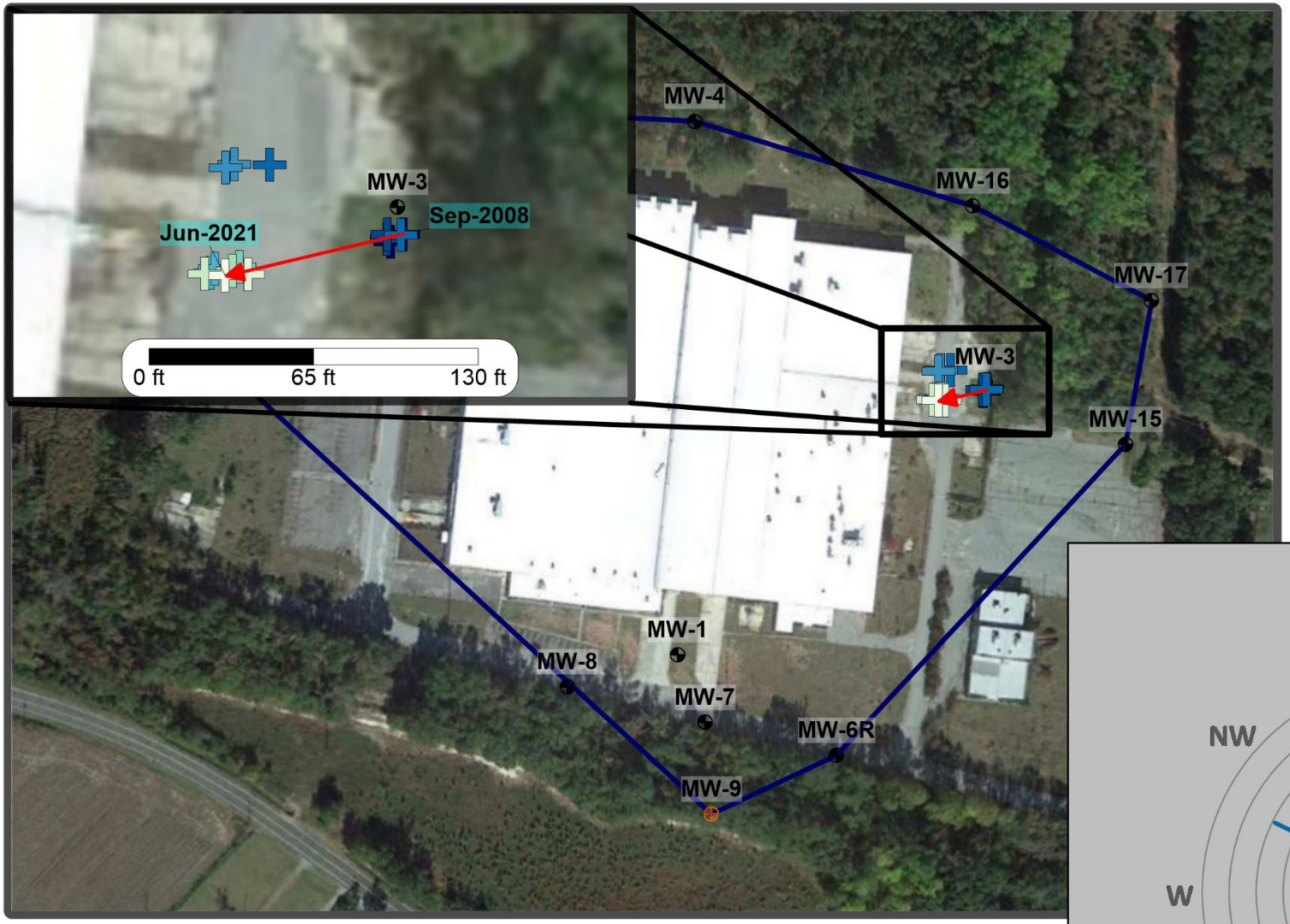
Member of WSP

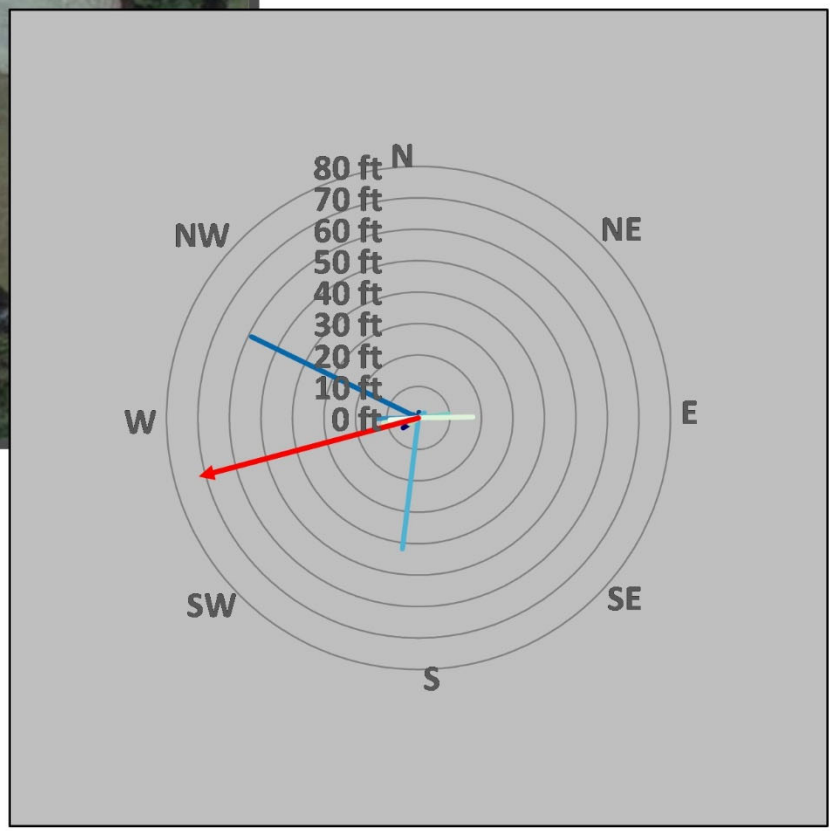




EARTHCON
Member of WSP

Chloroethanes Upper Shallow Center of Mass





LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Center of Mass Movement
- Net Movement

N

Center of Mass Scale

2008 → 2021

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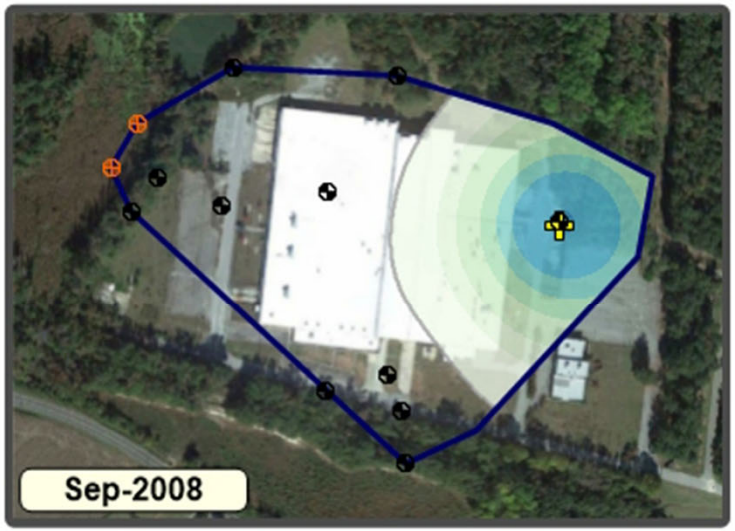
Chloroethanes
Upper Shallow

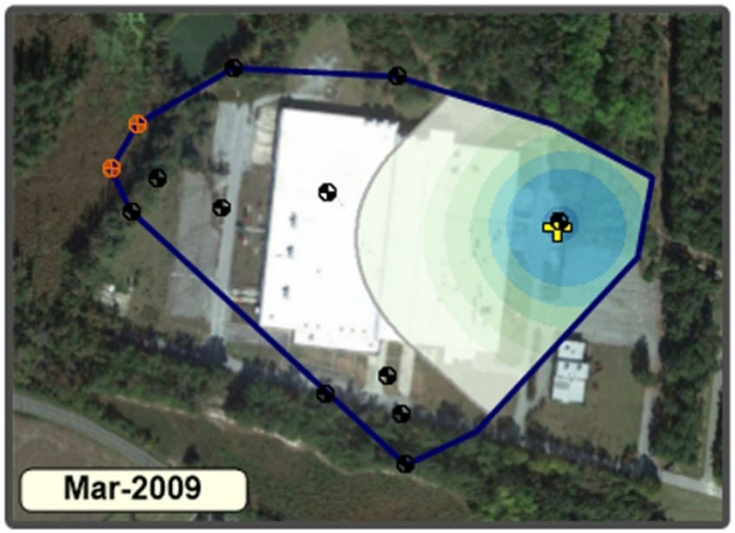
Plume Differences Sep-2008 vs Mar-2009

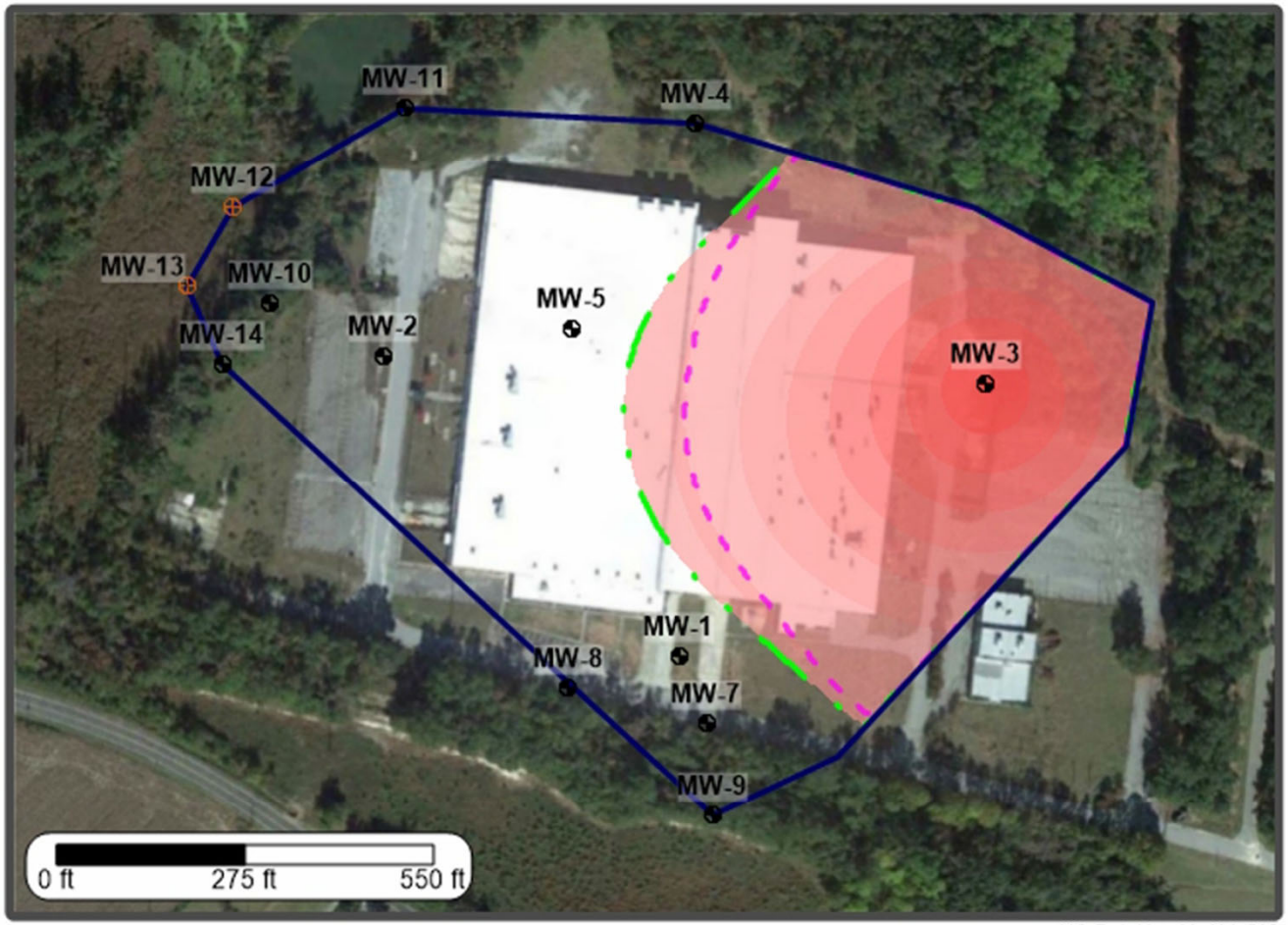


Concentration (nmol/L)

0 500 1,000 2,500 5,000 10,000 50,000 100,000 200,000 350,000

0 ft 500 ft 1,000 ft





US Pat. No. 10,400,583

Spatial Change Indicator™

Decrease — Increase

LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Plume Center of Mass
- Sep-2008 Plume Boundary
- Mar-2009 Plume Boundary

N

Plume Characteristics

Area: **15% Increase**
Average Concentration: **9% Increase**
Mass Indicator: **25% Increase**
Mass Increase: **44.2 moles Increase**
Mass Decrease: **0.00 moles Decrease**

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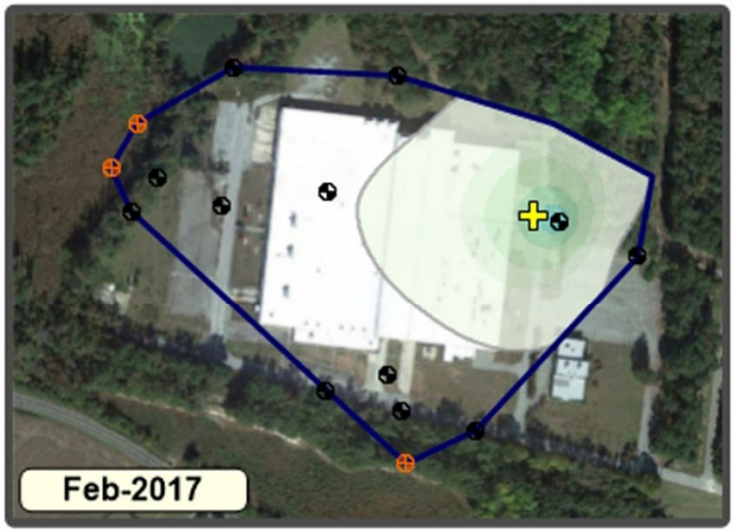
EARTHCON® Member of WSP

Chloroethanes
Upper Shallow

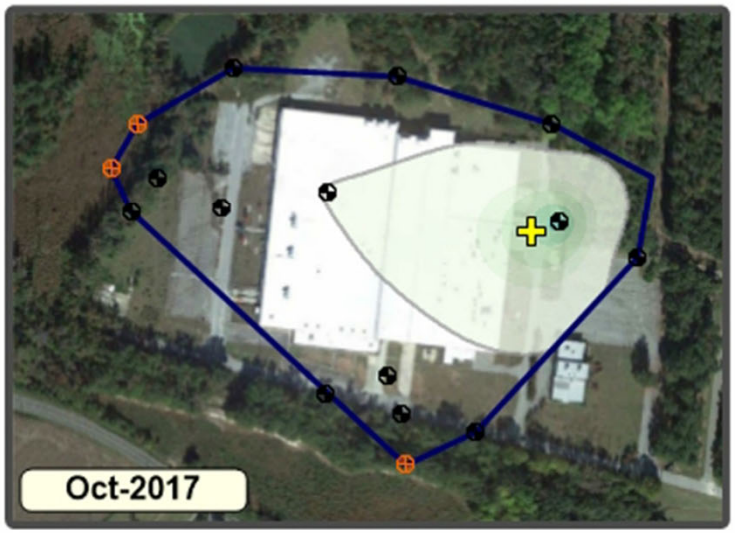
Plume Differences Feb-2017 vs Oct-2017

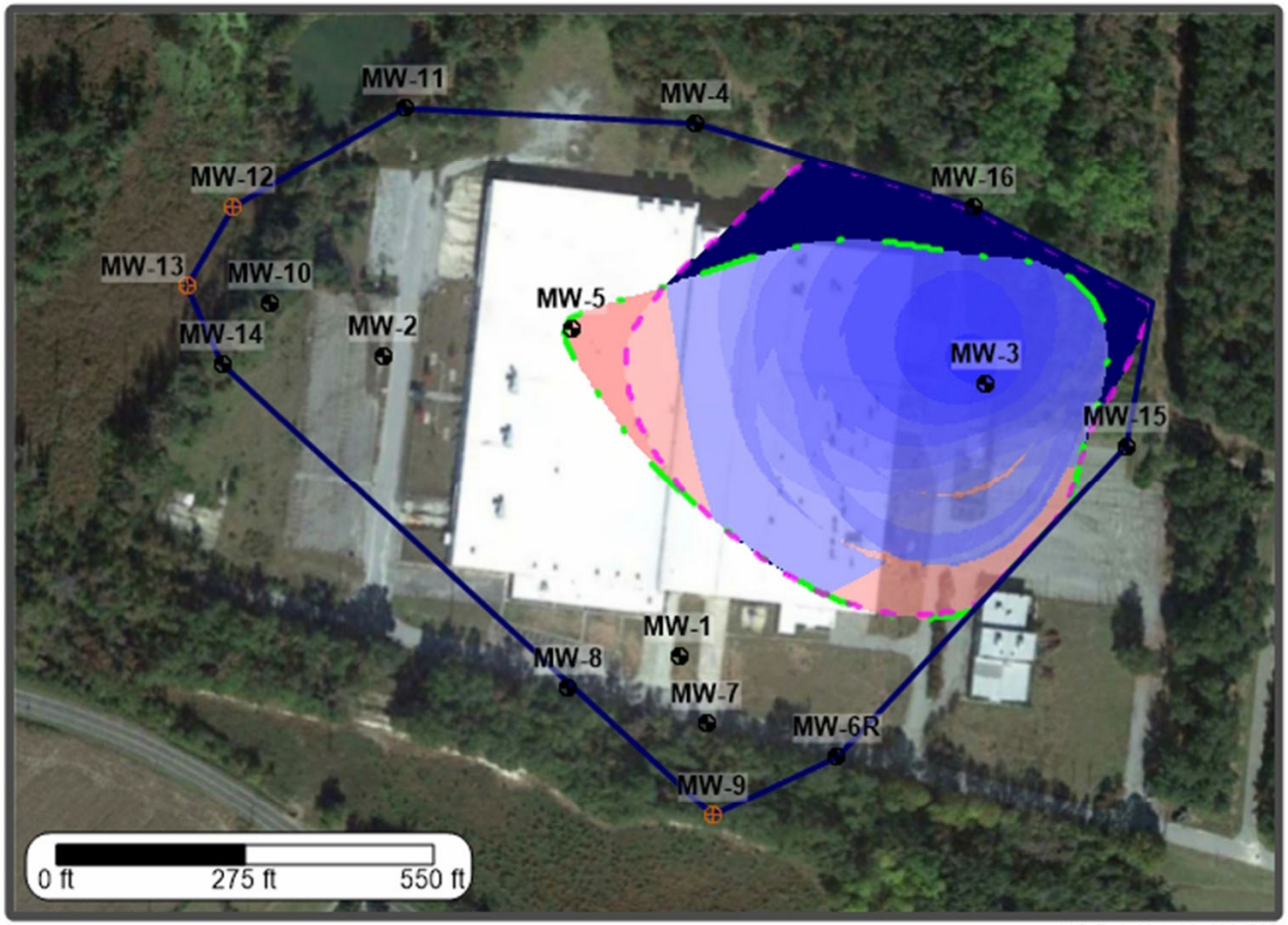


Concentration (nmol/L)

0 500 1,000 2,500 5,000 10,000 50,000 100,000 200,000 350,000

0 ft 500 ft 1,000 ft





US Pat. No. 10,400,583

Spatial Change Indicator™

Decrease — Increase

LEGEND

- MW-4 Monitoring Well
- MW-5 Hanging Well
- Plume Center of Mass
- Feb-2017 Plume Boundary
- Oct-2017 Plume Boundary

N

Plume Characteristics

Area: **10% Decrease**
Average Concentration: **34% Decrease**
Mass Indicator: **41% Decrease**
Mass Increase: **0.09 moles Increase**
Mass Decrease: **8.22 moles Decrease**

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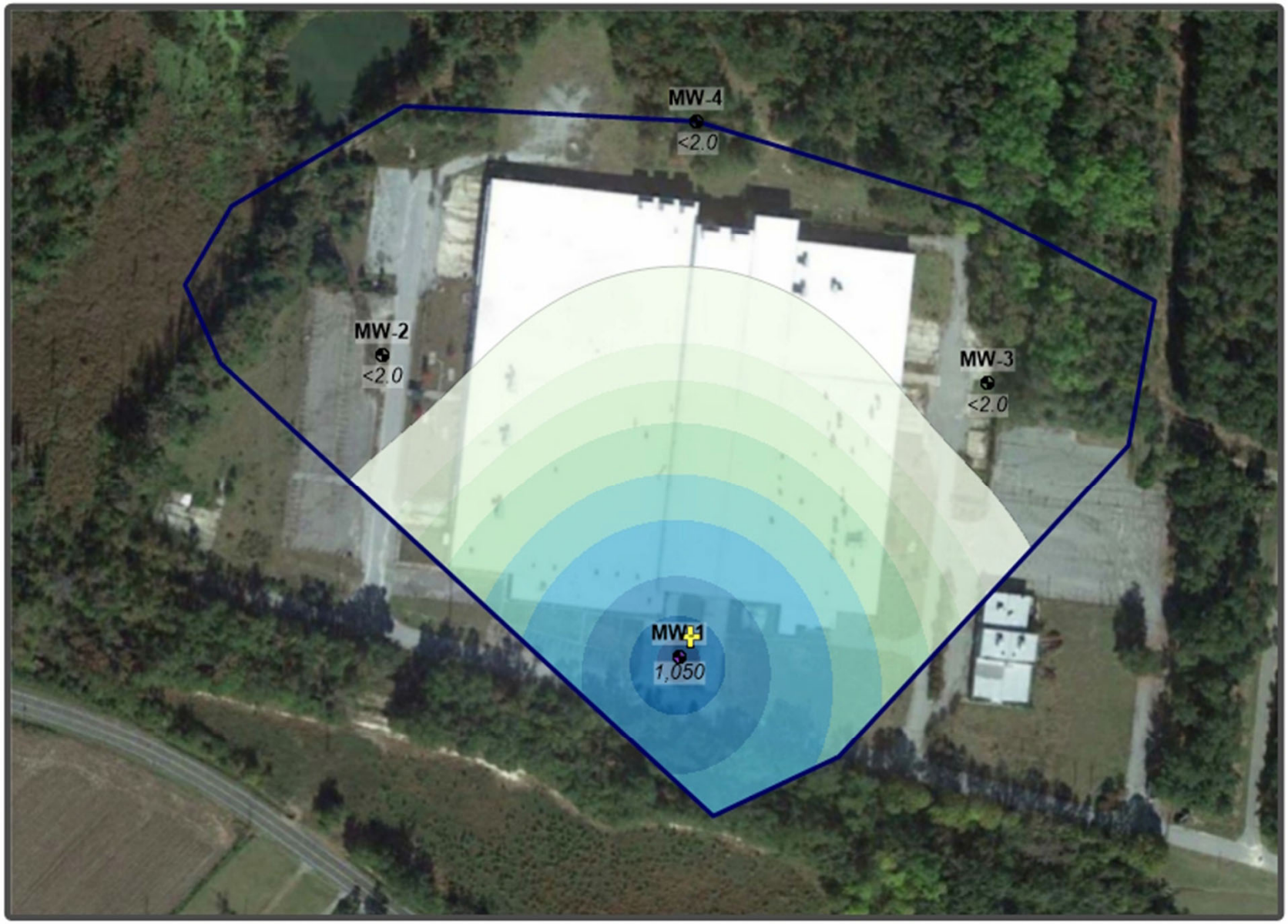

Toluene
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000 MCL
750
500
250
100
50
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

N

Plume Characteristics

Plume Area: **10.6 acres**
Plume Average Concentration: **98.5 µg/L**
Plume Mass Indicator: **8.5 lbs**

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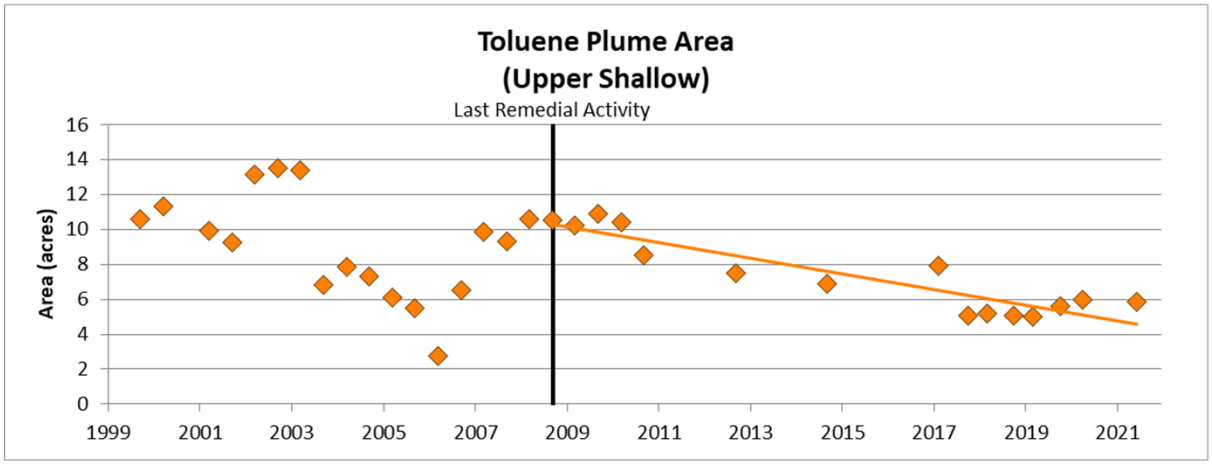
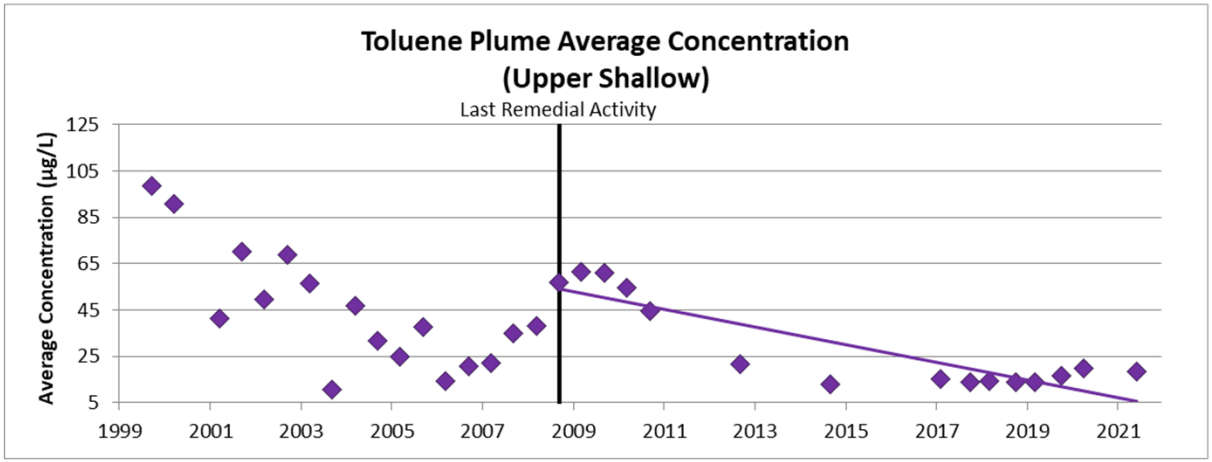
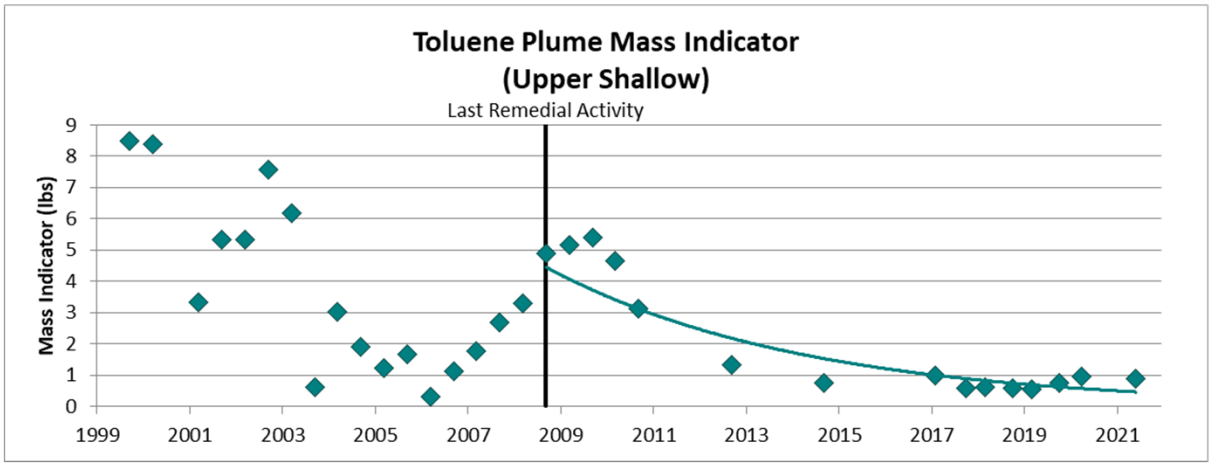


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

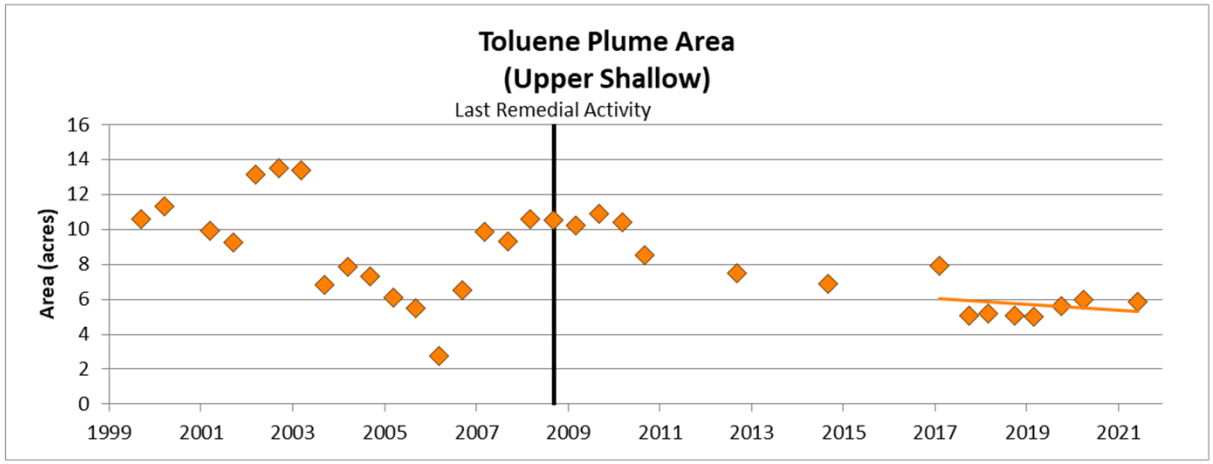


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence

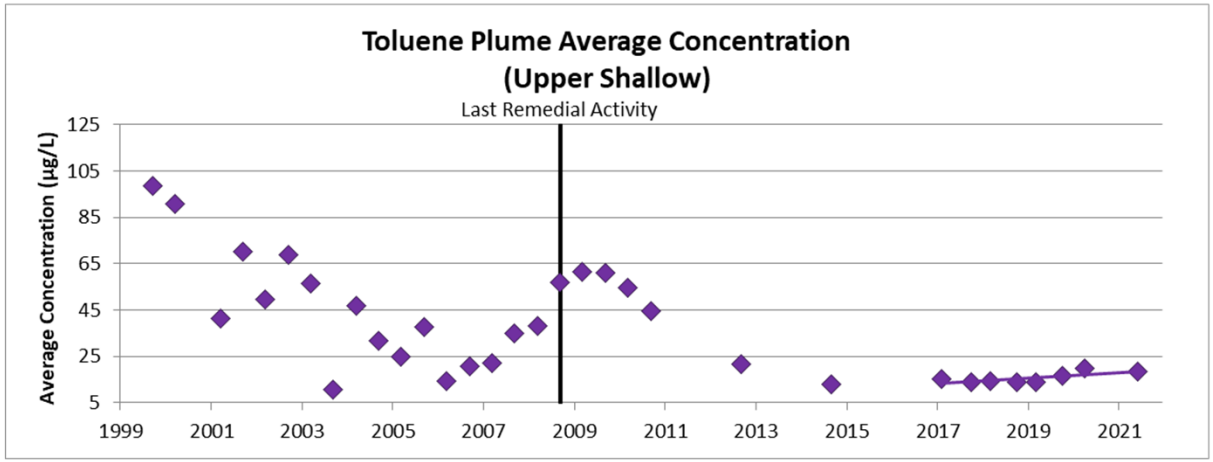


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: >99% Confidence
Regression: >99% Confidence

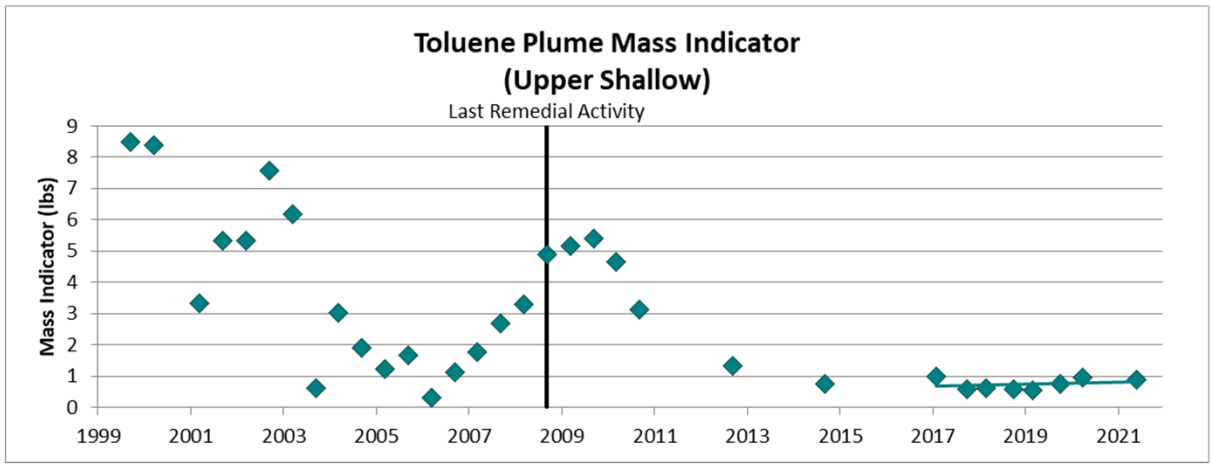
EARTHCON®
Member of WSP



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 64% Confidence
Regression: 44% Confidence

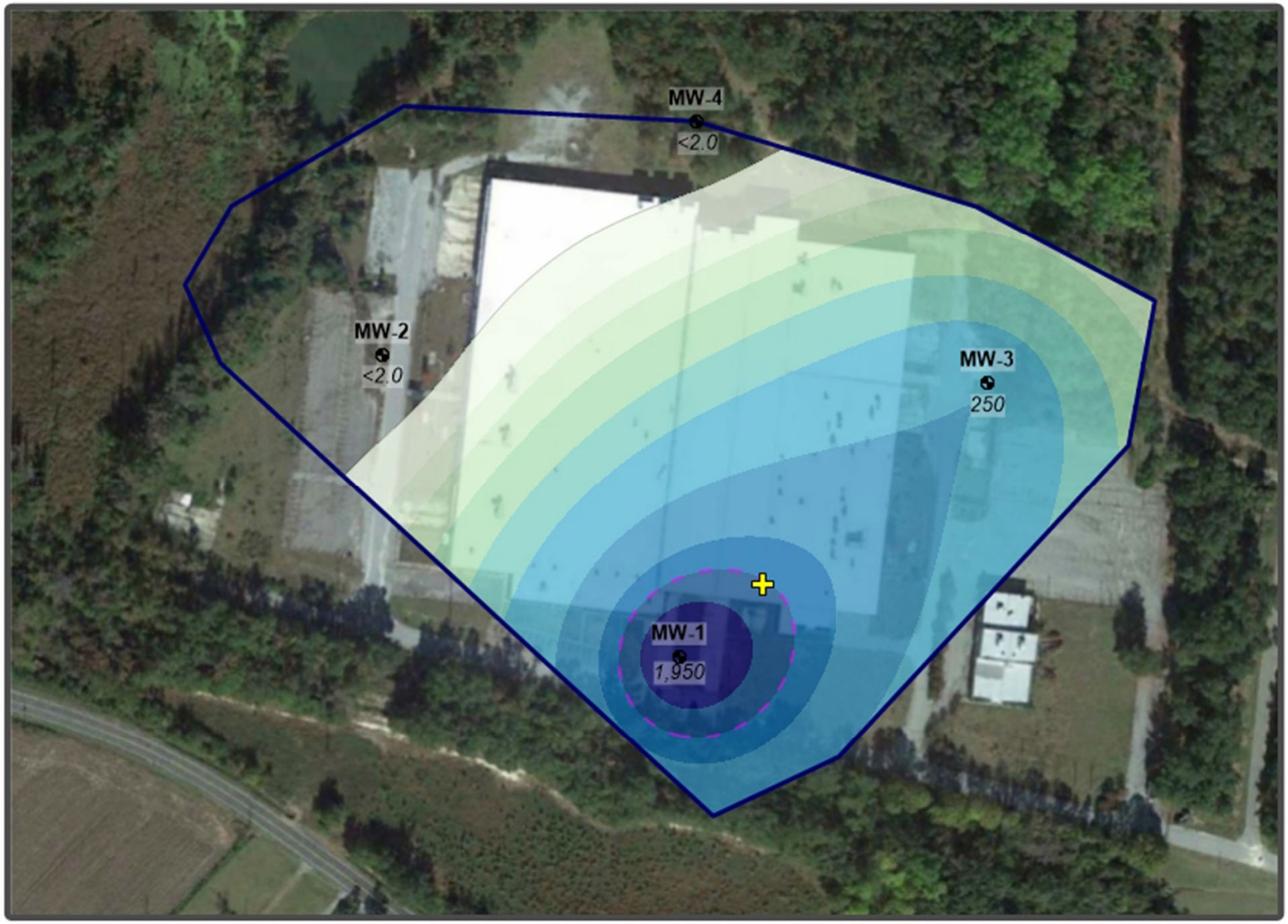


Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 86% Confidence
Regression: 96% Confidence



Feb-2017 to Jun-2021
No Trend
Mann-Kendall: 64% Confidence
Regression: 48% Confidence

EARTHCON®
Member of WSP



Ethylbenzene
Upper Shallow
Sep-1999

Concentration (µg/L)

1,000
700 MCL
500
250
100
50
25
15
10
5

0 ft 215 ft 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

N

Plume Characteristics

Plume Area: **15.4 acres**
Plume Average Concentration: **224 µg/L**
Plume Mass Indicator: **28.1 lbs**

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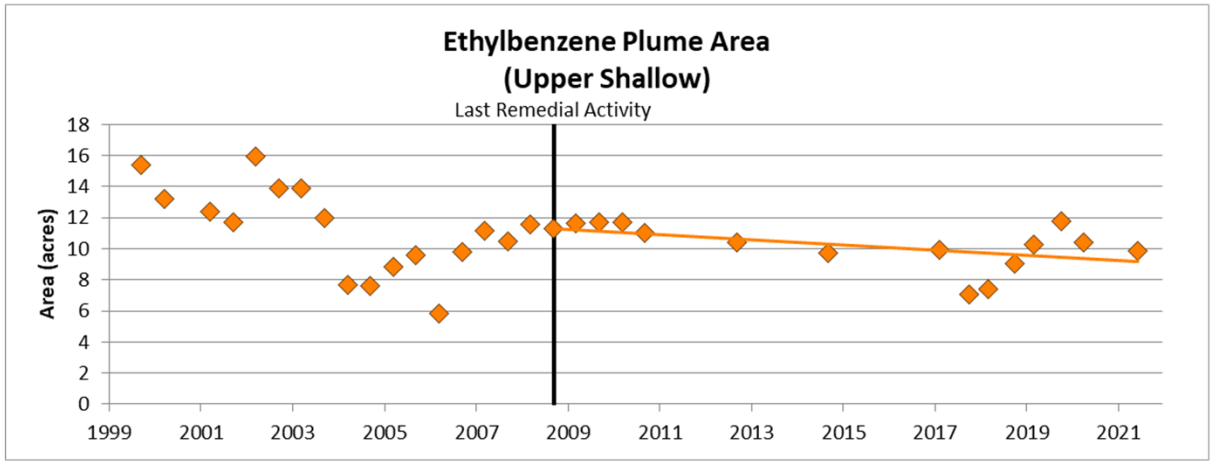
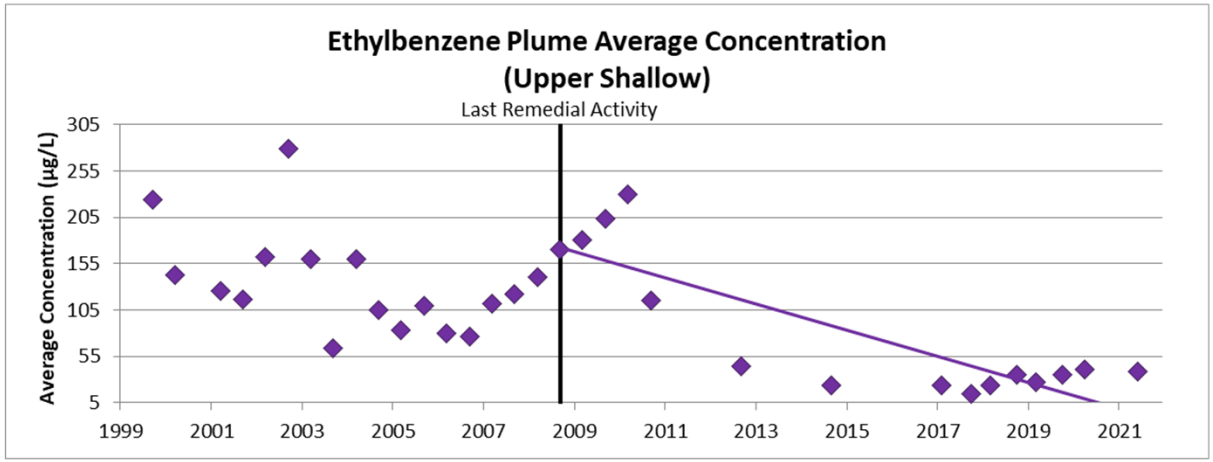
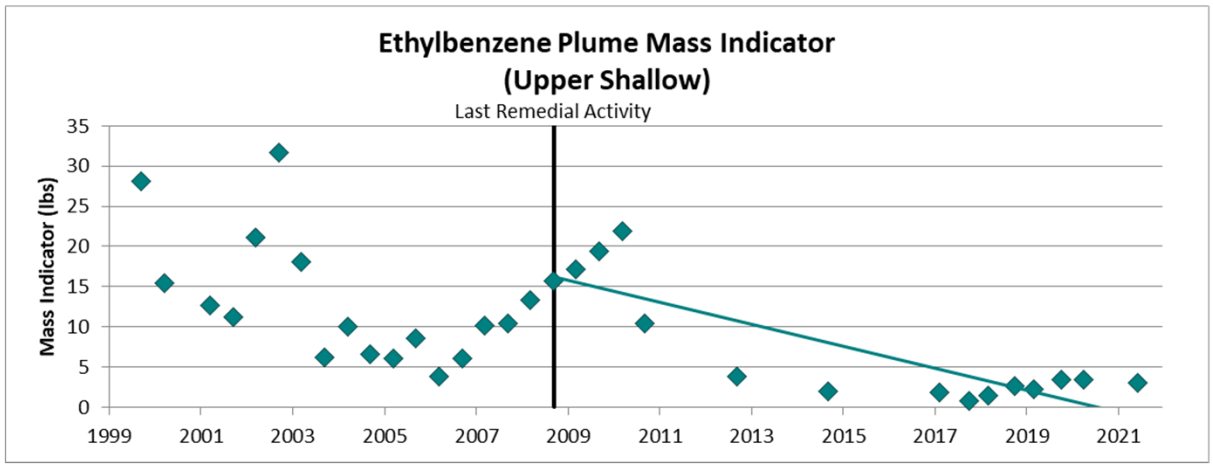


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 93% Confidence
Regression: 96% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 95% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 96% Confidence
Regression: >99% Confidence

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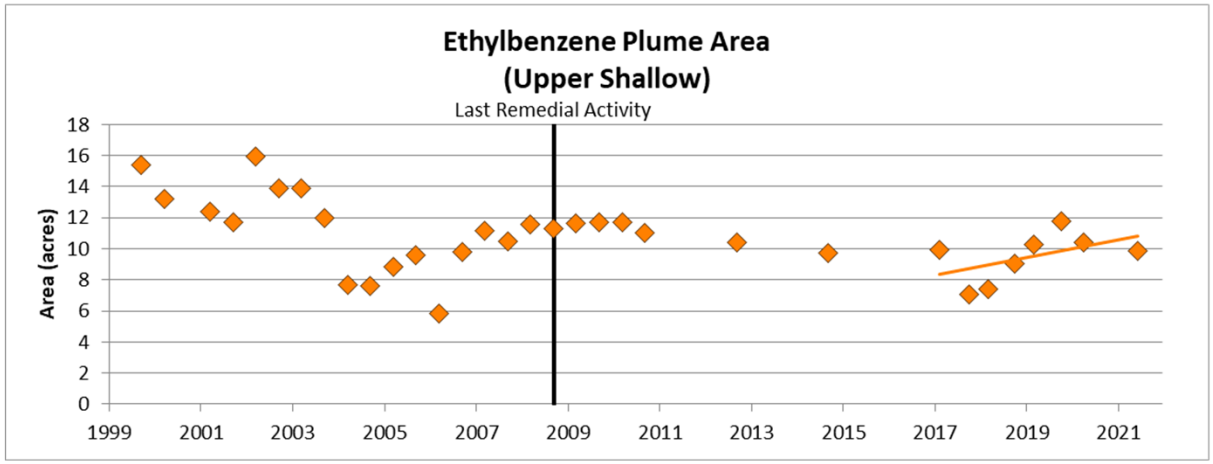
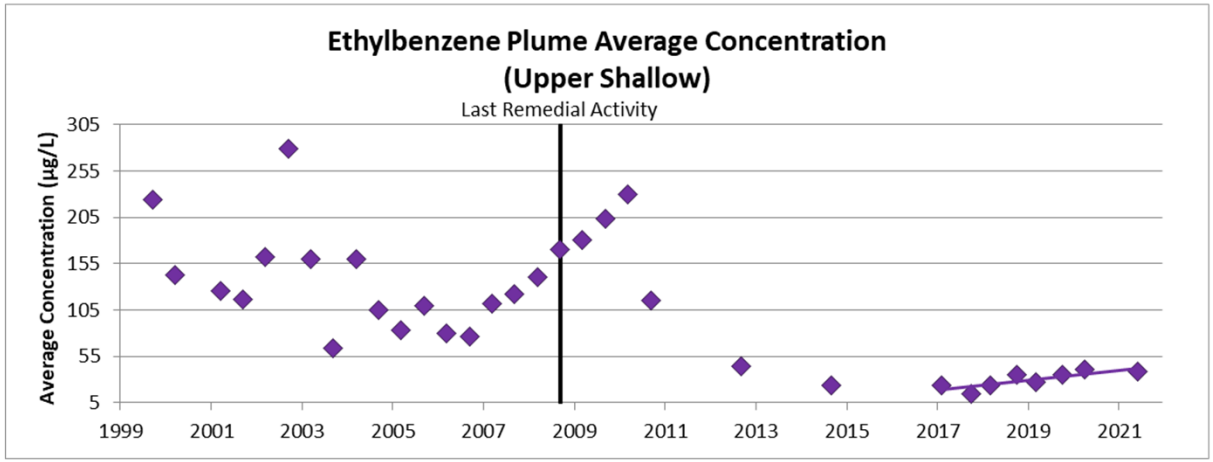
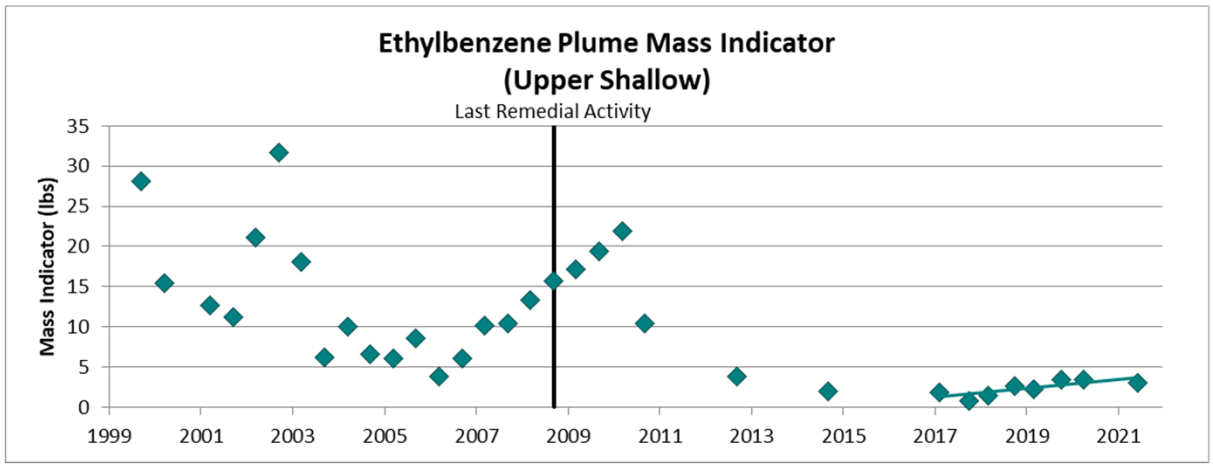


Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 91% Confidence
Regression: 81% Confidence



Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: 99% Confidence
Regression: 99% Confidence



Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: 98% Confidence
Regression: 98% Confidence

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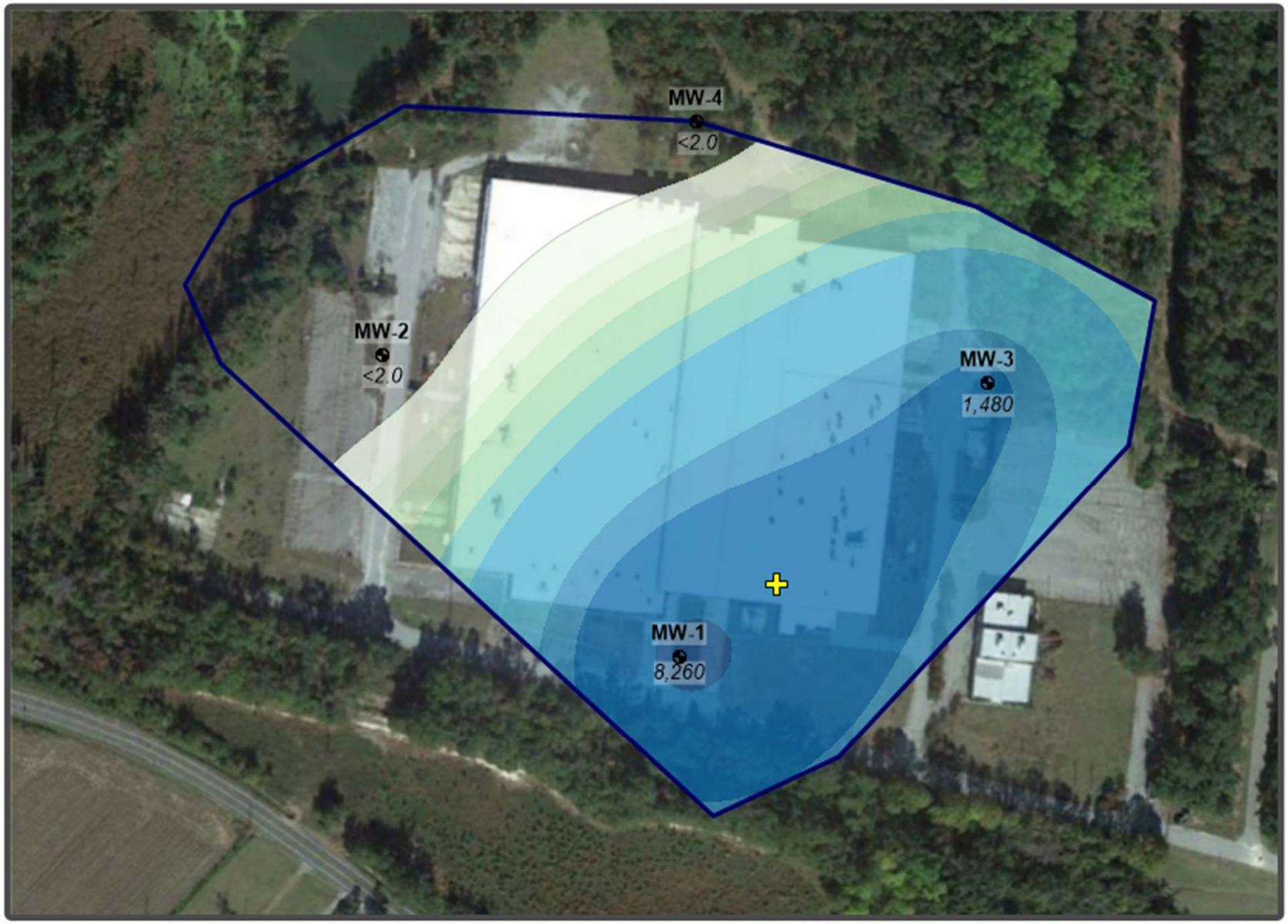

Xylenes
Upper Shallow
Sep-1999

Concentration (µg/L)

- 10,000 MCL
- 5,000
- 1,000
- 500
- 100
- 50
- 25
- 15
- 10
- 5

0 ft — 215 ft — 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 112 — Concentration (µg/L)
- NS (146) — Well Not Sampled (Assigned Value Shown)
- Plume Center of Mass
- MCL

N

Plume Characteristics

Plume Area: **15.8 acres**
Plume Average Concentration: **833 µg/L**
Plume Mass Indicator: **107 lbs**

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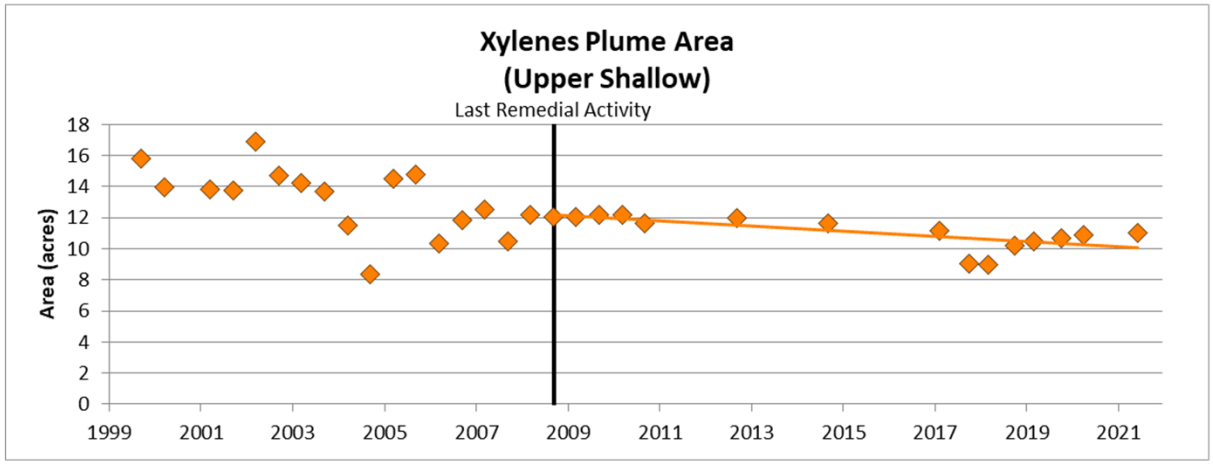
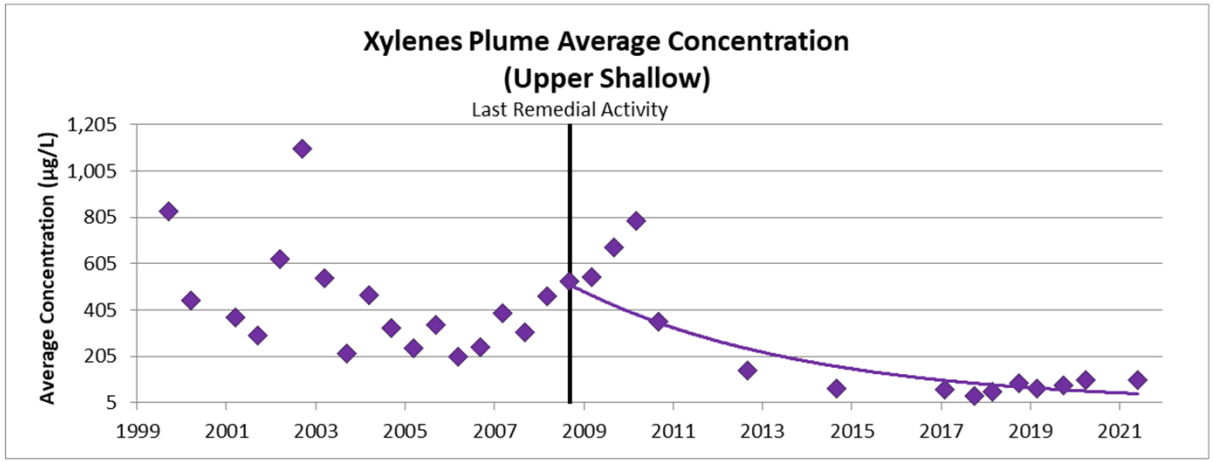
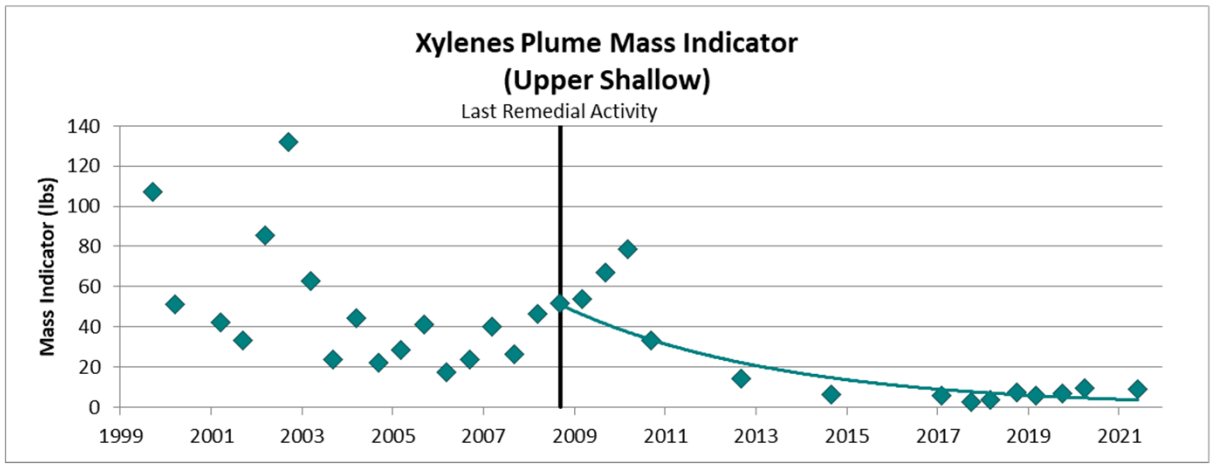


Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 99% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 96% Confidence
Regression: >99% Confidence



Sep-2008 to Jun-2021
Decreasing Trend
Mann-Kendall: 97% Confidence
Regression: >99% Confidence

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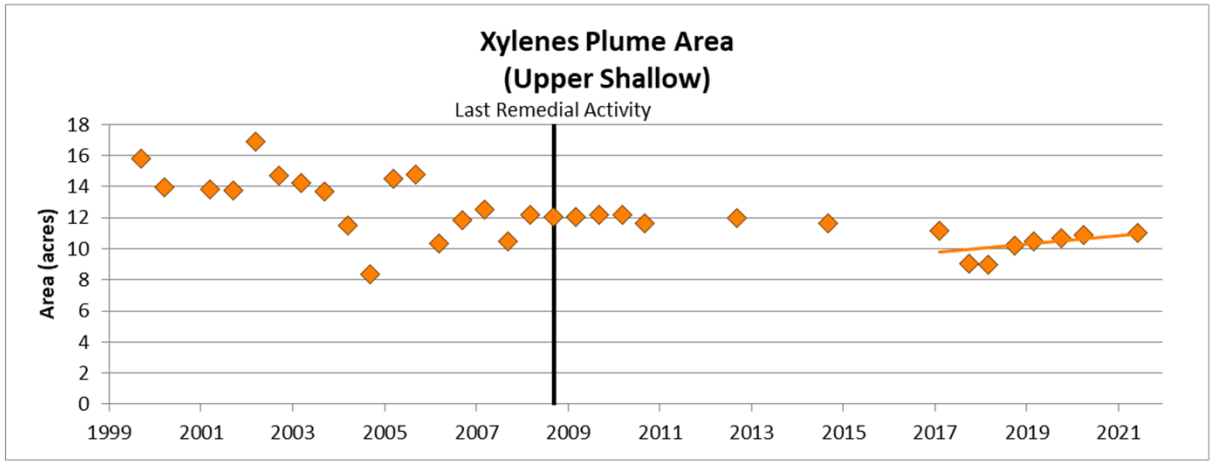
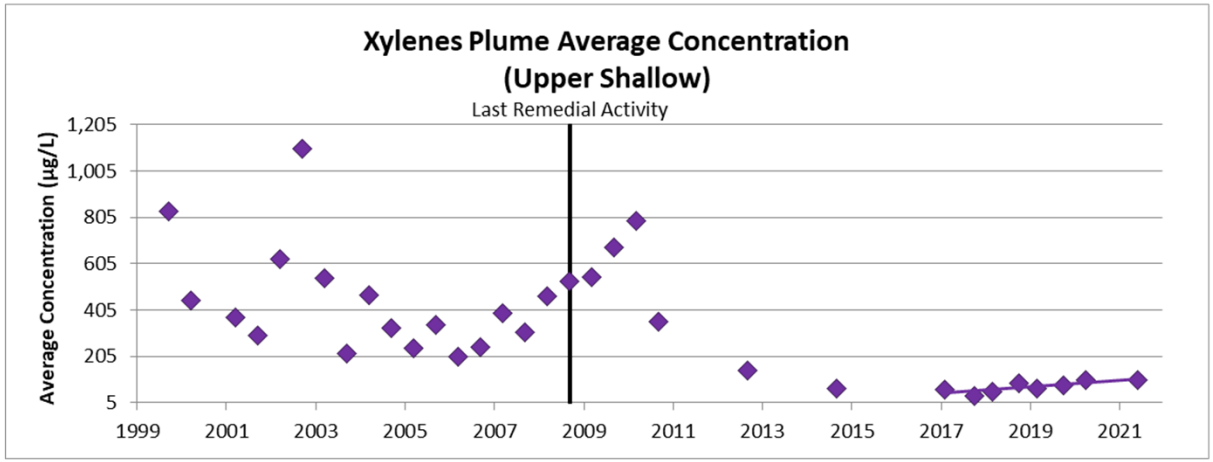
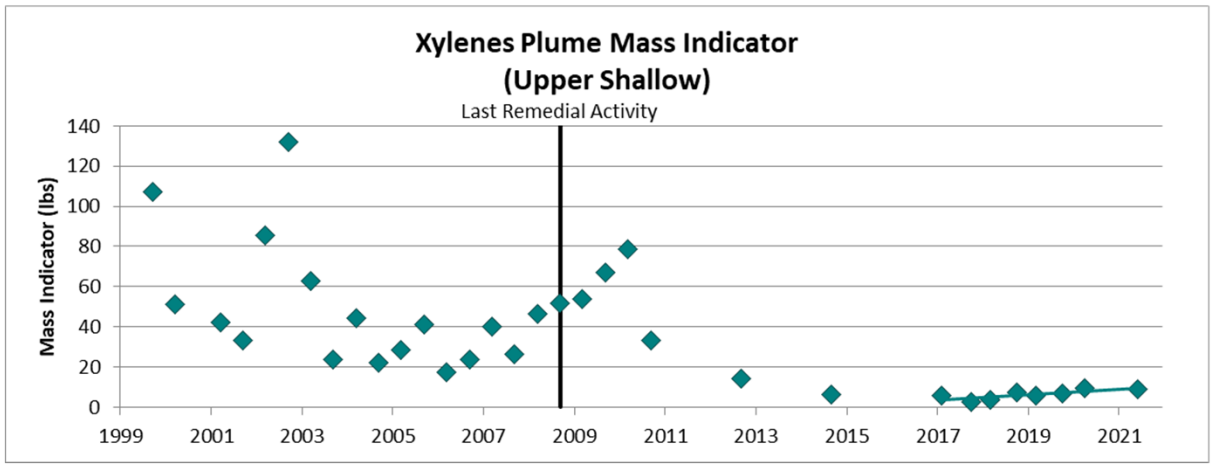


Feb-2017 to Jun-2021
No Trend/Increasing Trend
Mann-Kendall: 91% Confidence
Regression: 74% Confidence



Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: 98% Confidence
Regression: 98% Confidence



Feb-2017 to Jun-2021
Increasing Trend
Mann-Kendall: 98% Confidence
Regression: 98% Confidence

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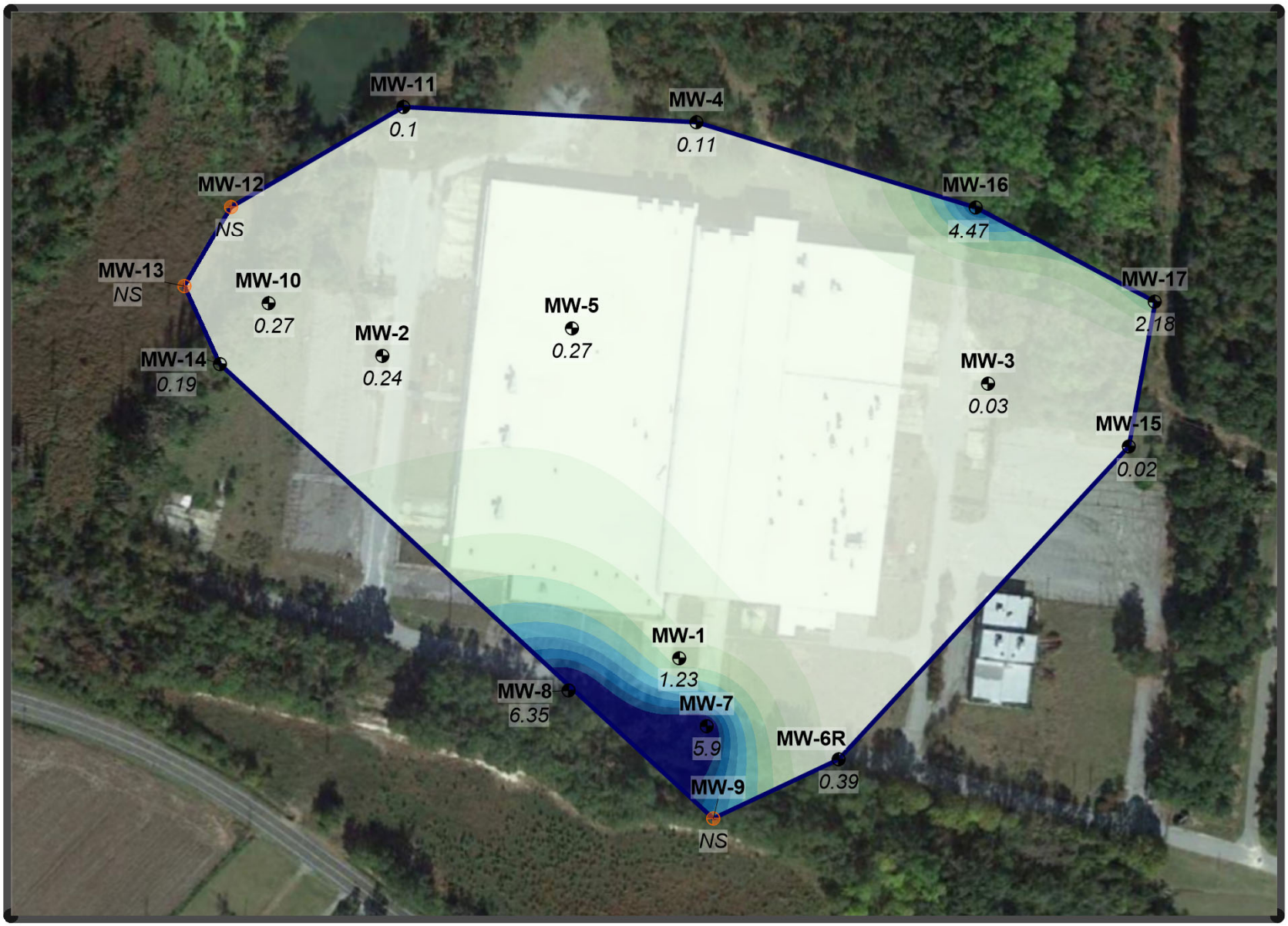
Dissolved Oxygen Upper Shallow Jun-2021



Concentration (mg/L)

4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

112 Concentration (mg/L)

N

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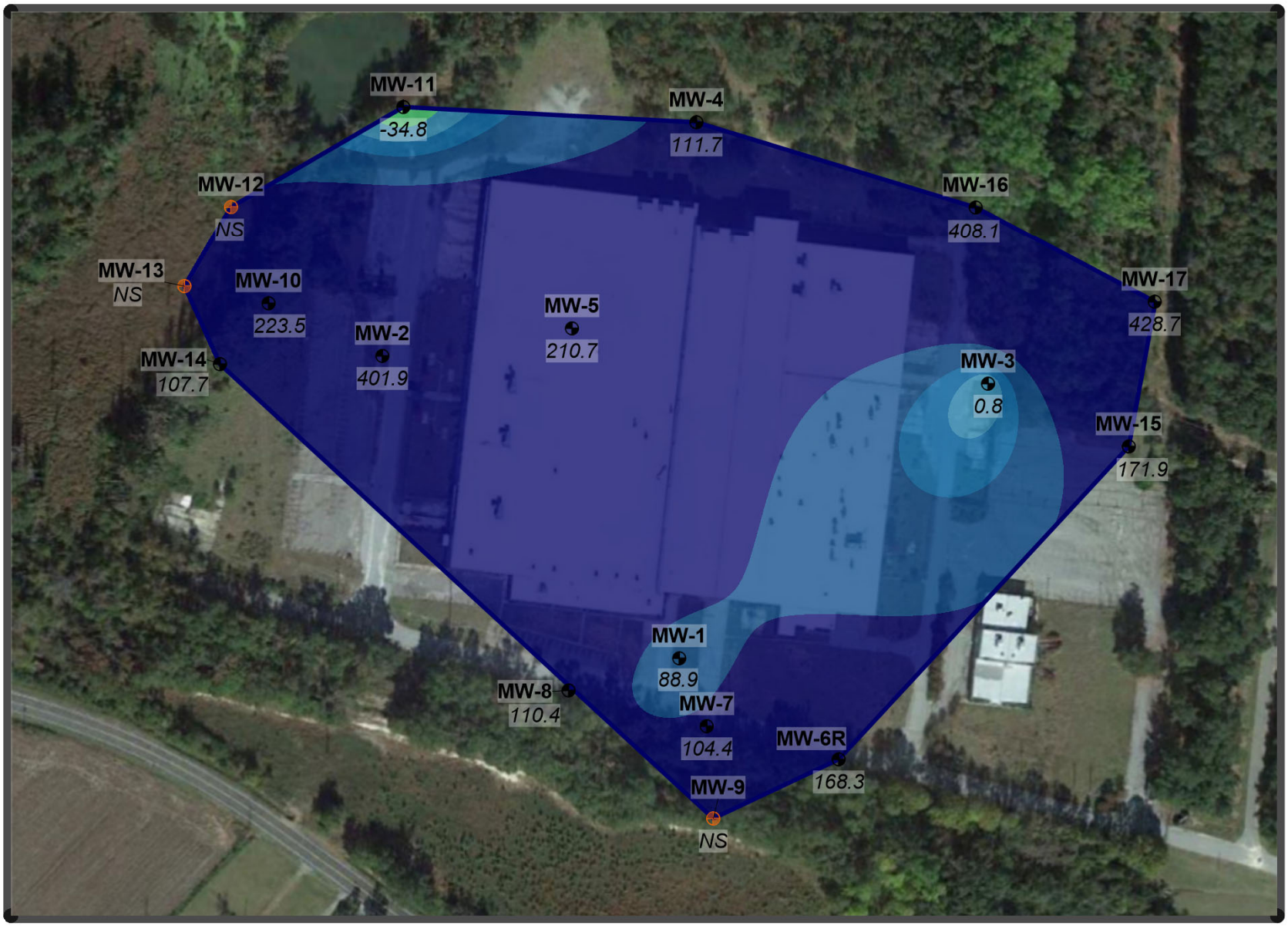
ORP
Upper Shallow
Jun-2021



ORP (mV)

100
50
25
0
-25
-50
-75
-100
-150
-500

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

112 ORP (mV)

N

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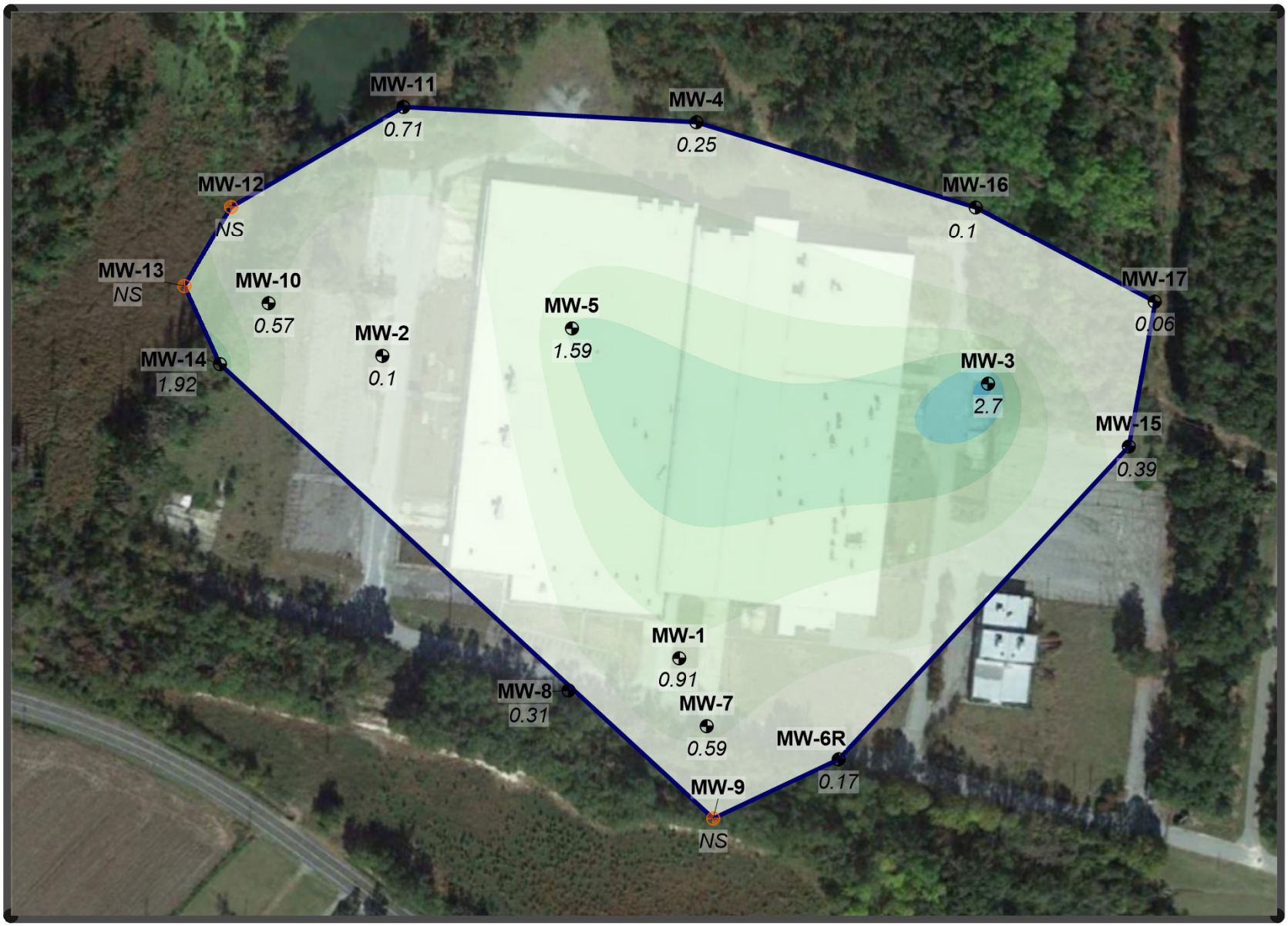

Ferrous Iron
Upper Shallow
Jun-2021

Concentration (mg/L)

4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

1.42 Concentration (mg/L)

N

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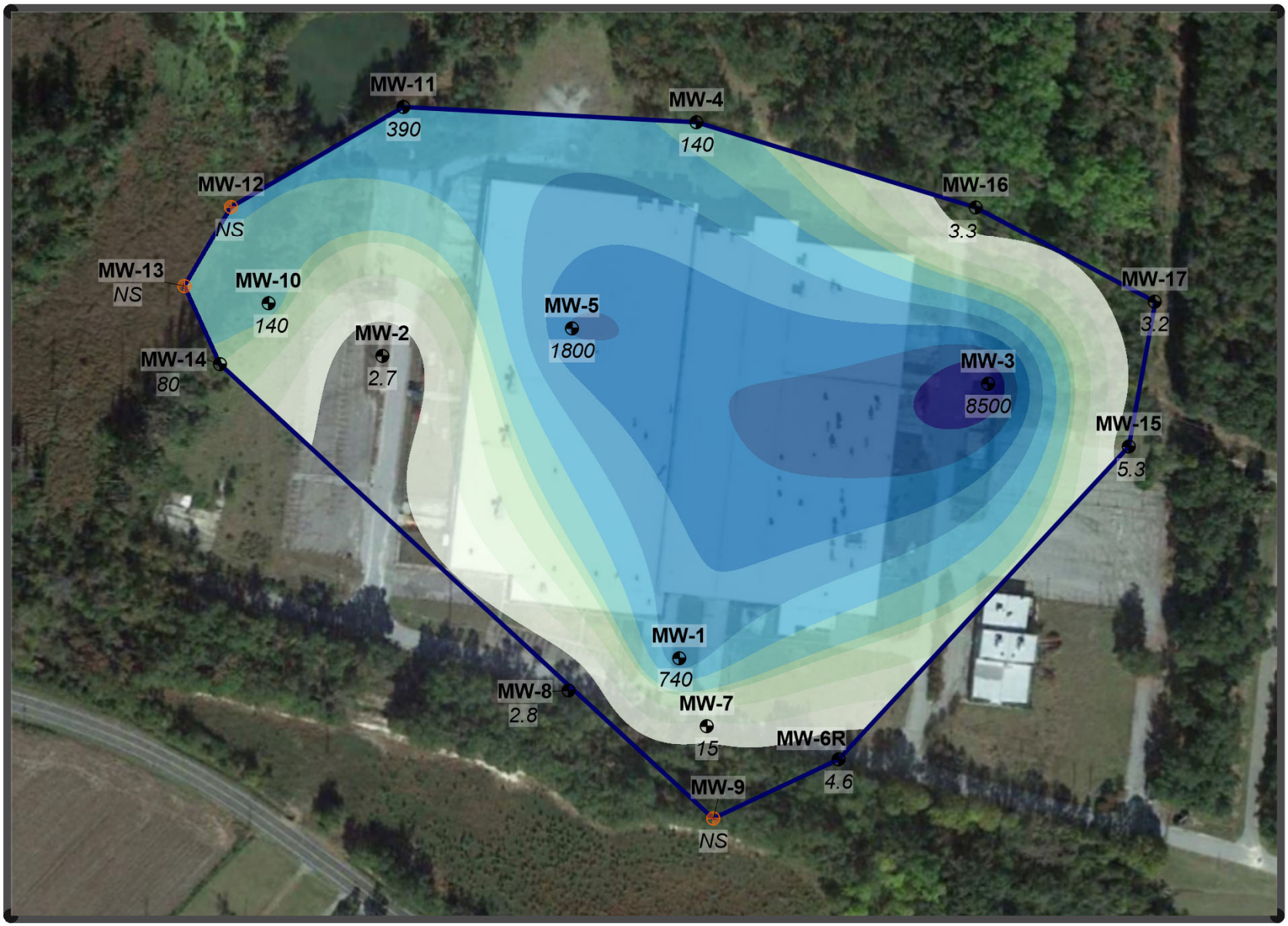
Methane
Upper Shallow
Jun-2021



Concentration (µg/L)

- 3,200
- 1,600
- 800
- 400
- 200
- 100
- 80
- 40
- 20
- 10

0 ft — 215 ft — 430 ft

LEGEND

- MW-1 — Monitoring Well
- MW-9 — Hanging Well
- 170 — Concentration (µg/L)

N

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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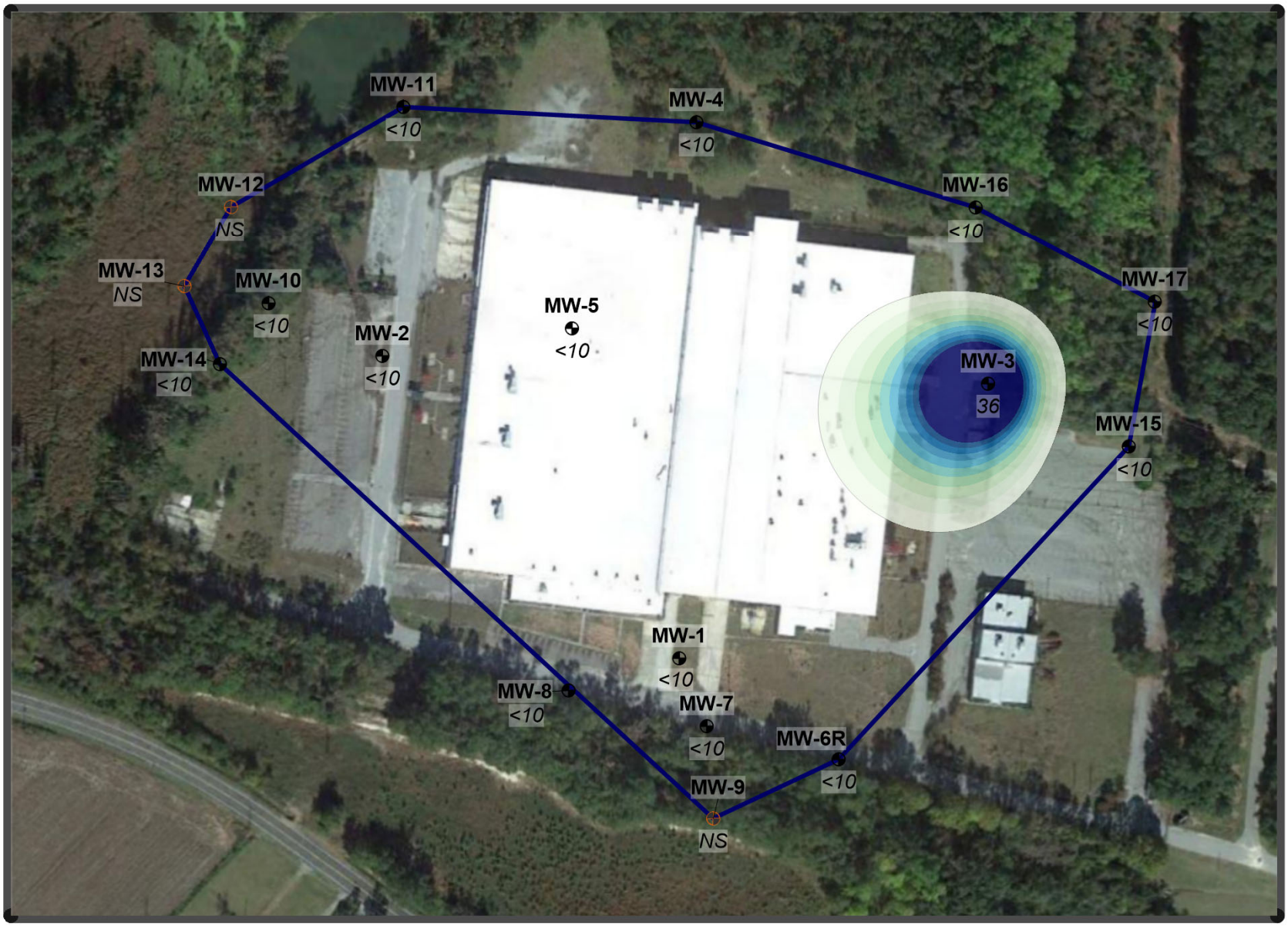
Ethane
Upper Shallow
Jun-2021



Concentration (µg/L)

14
13
12
11
10
9
8
7
6
5

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

<10 Concentration (µg/L)

N

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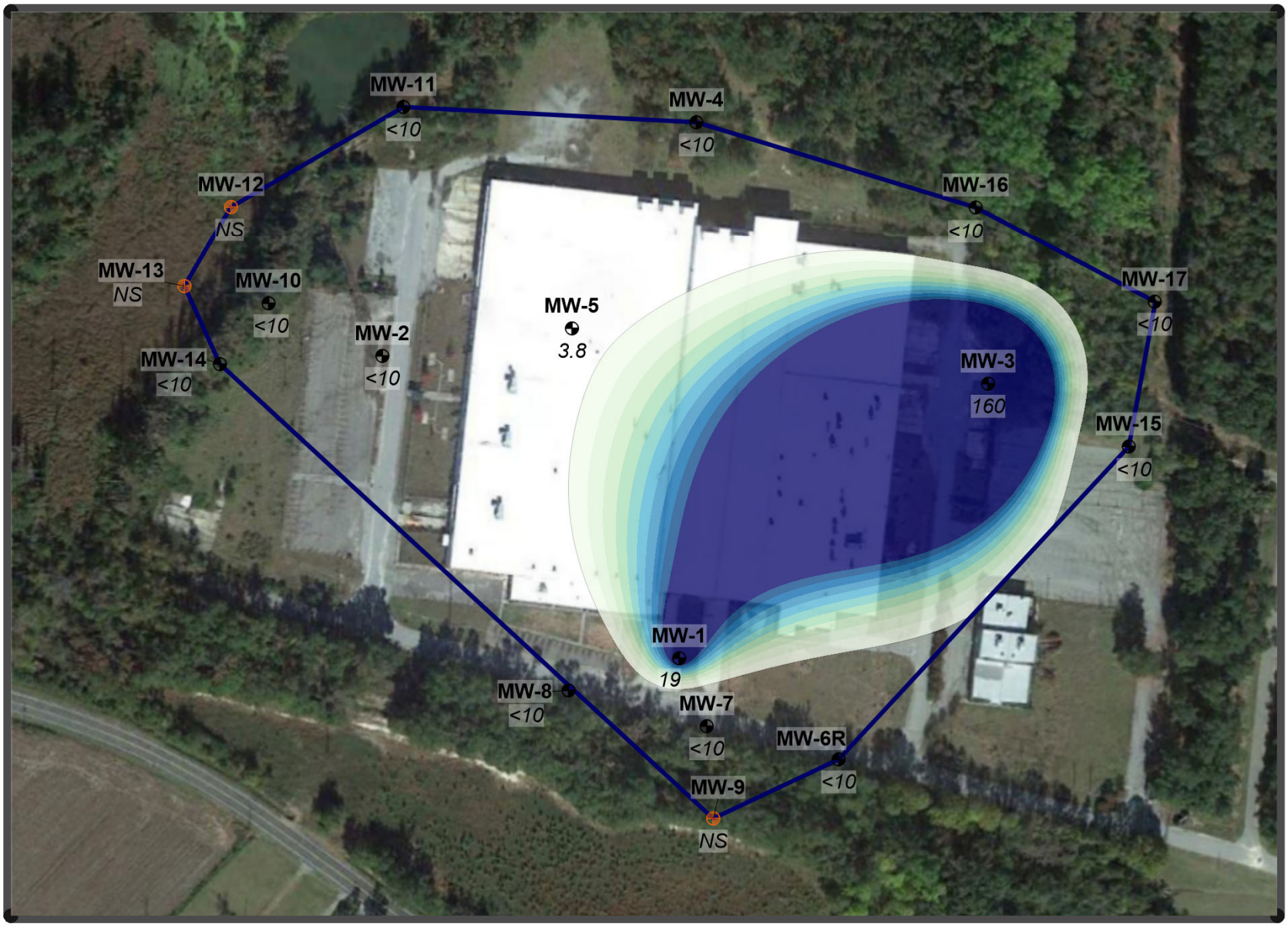
Ethene
Upper Shallow
Jun-2021



Concentration (µg/L)

14
13
12
11
10
9
8
7
6
5

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

6.4 Concentration (µg/L)

N

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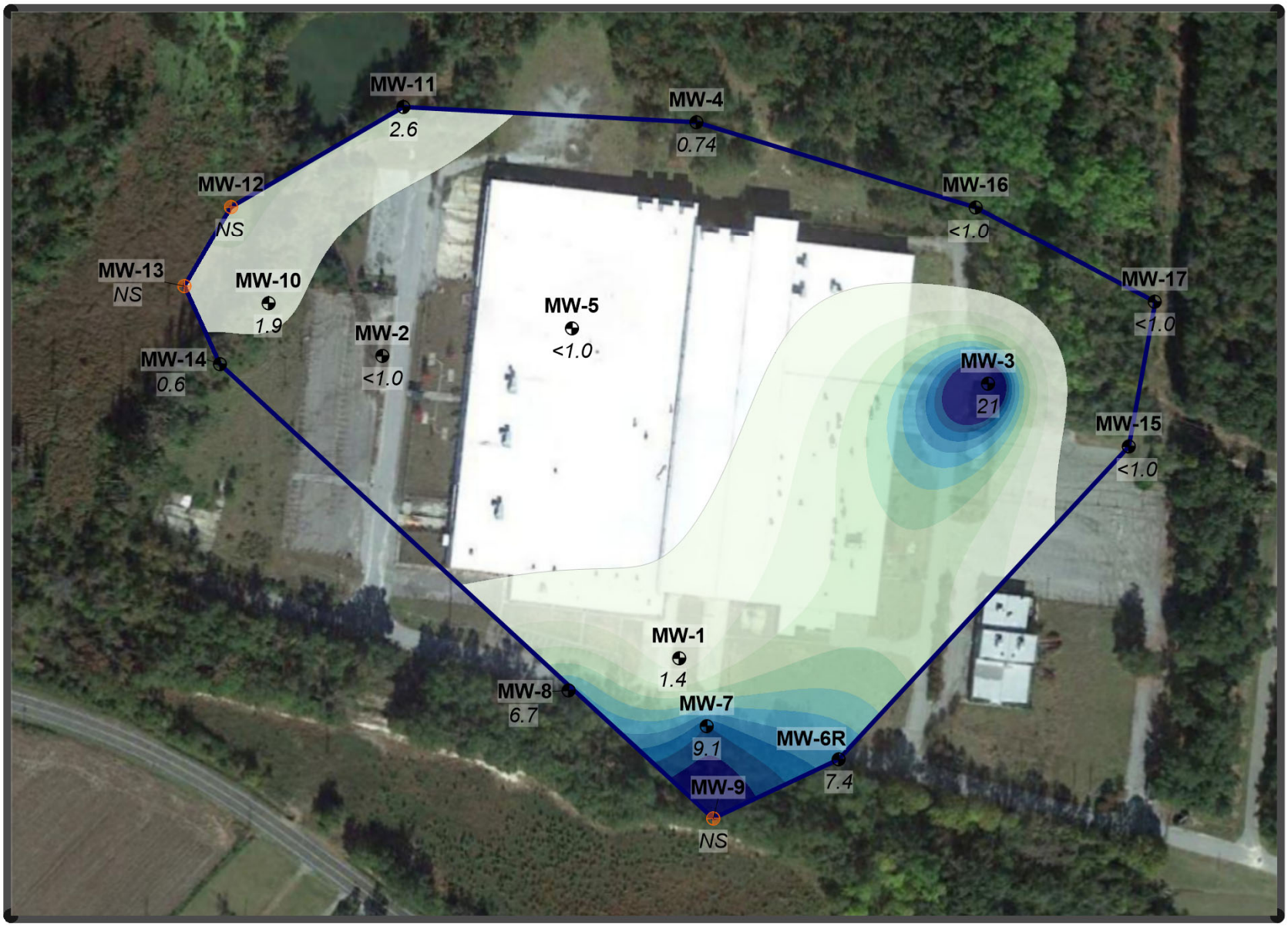

Total Organic Carbon
Upper Shallow
Jun-2021

Concentration (mg/L)

10
9
8
7
6
5
4
3
2
1

0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

1.1 Concentration (mg/L)

N

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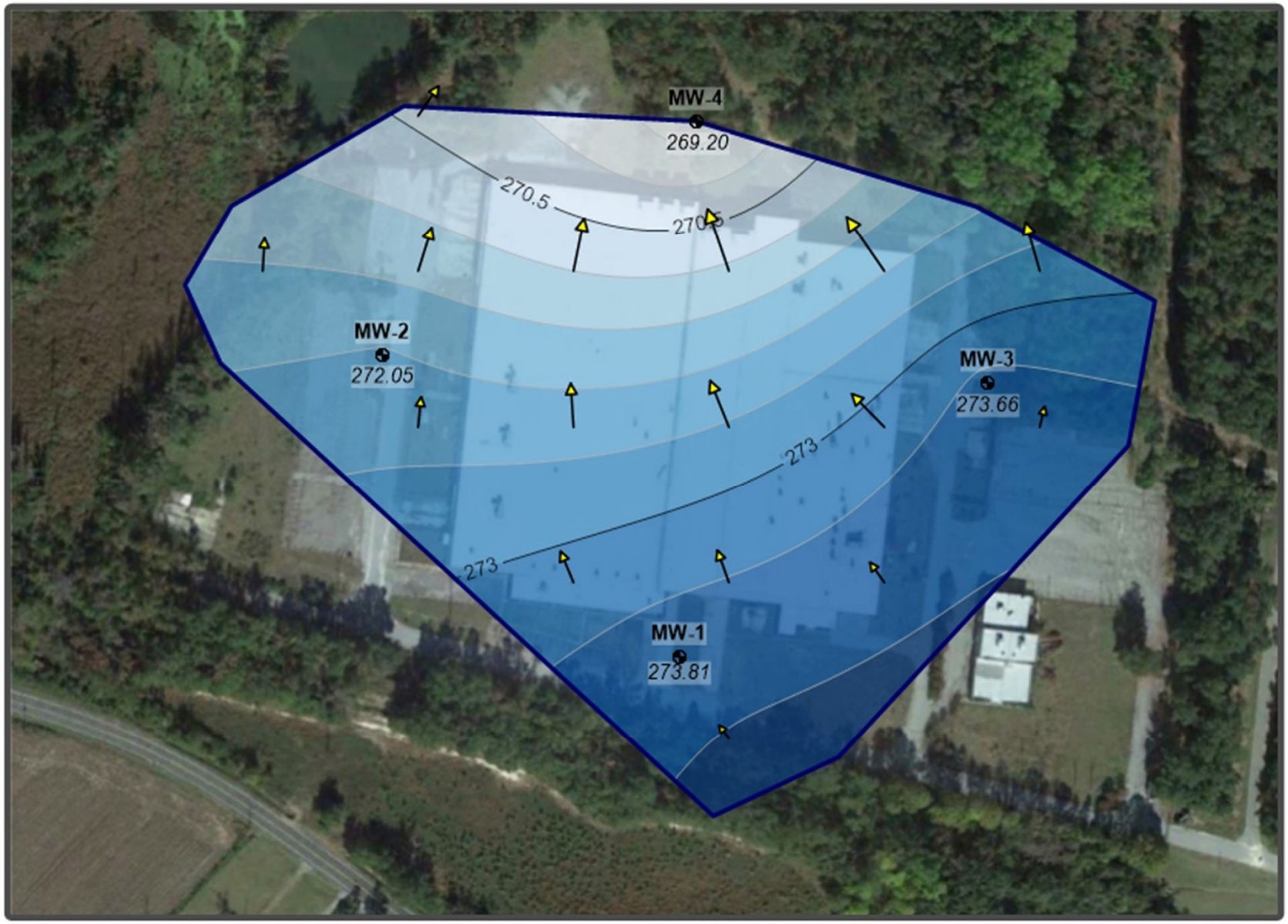

Groundwater Elevation
Upper Shallow
May-2000

Elevation (ft)

277
276.5
276
275.5
275
274.5
274
273.5
273
272.5
272
271.5
271
270.5
270
269.5
269
268.5
268

0 ft 215 ft 430 ft

Characteristics

Average Groundwater Elevation: **272.41 ft**

LEGEND

MW-1 Monitoring Well

MW-9 Hanging Well

112 Elevation (ft)

N

This analysis requires fixed data points within a fixed area for the purposes of assessing relative changes of area, average concentration, and mass indicator over time. Therefore, any created isopleth maps are not intended to be a depiction or model of the actual plume but rather is meant to show conceptual behavior of the aforementioned metrics over time.

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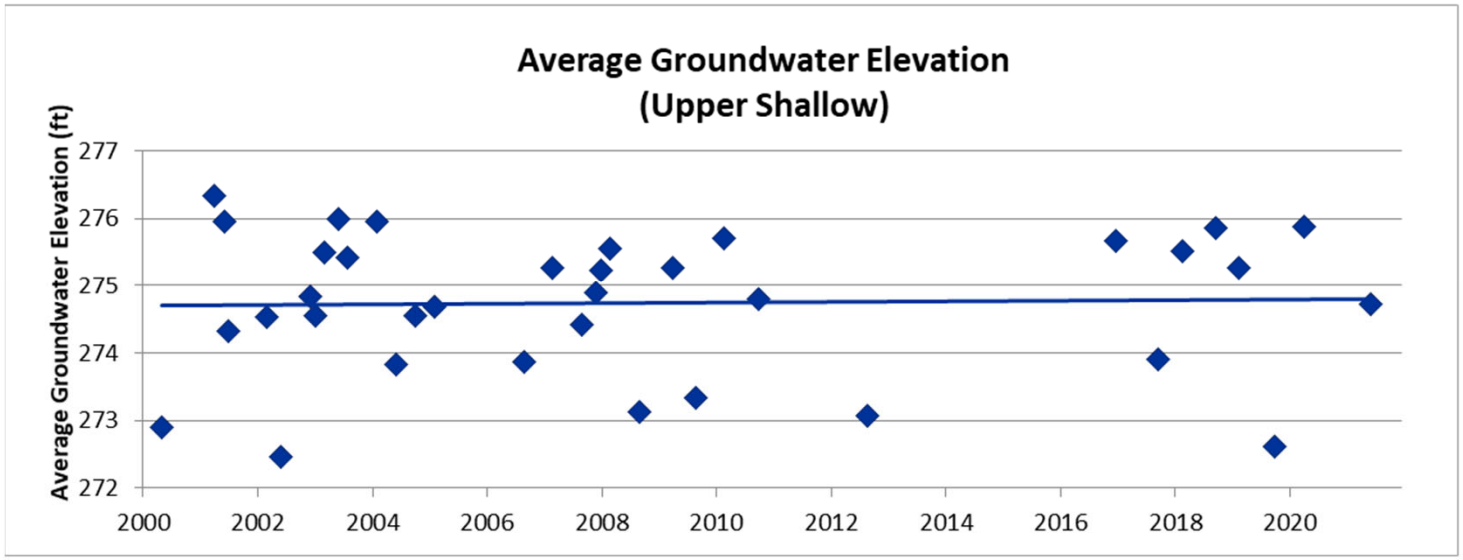

May-2000 to Jun-2021
No Trend
Mann-Kendall: 60% Confidence
Regression: 13% Confidence

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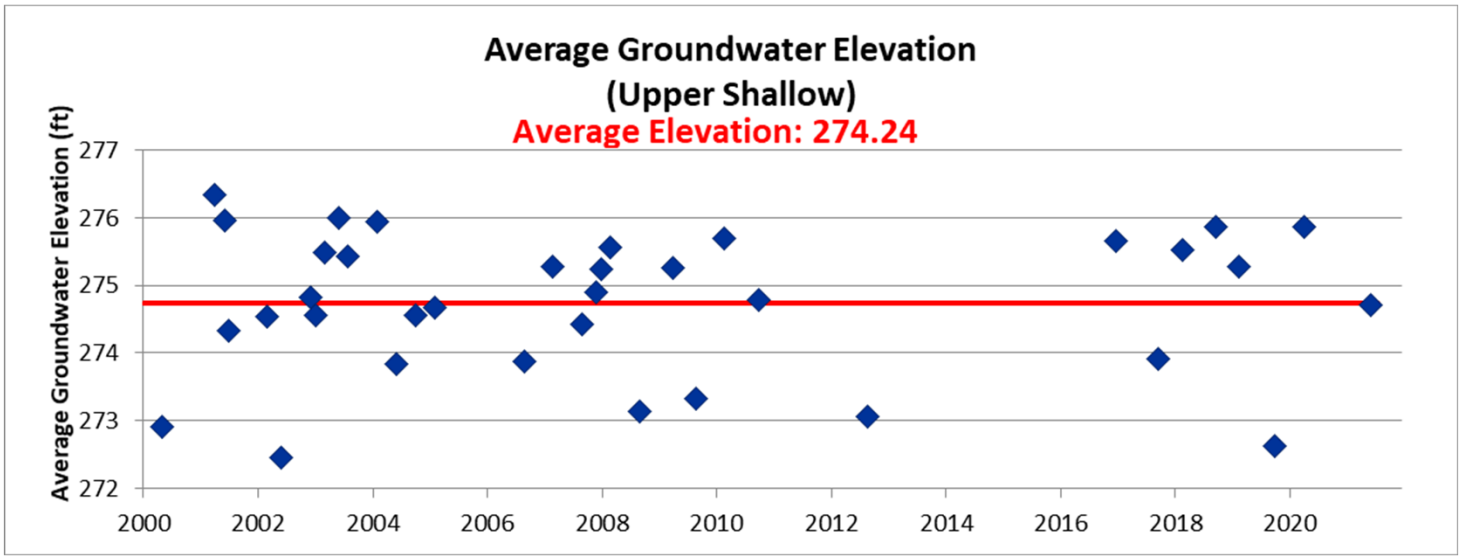

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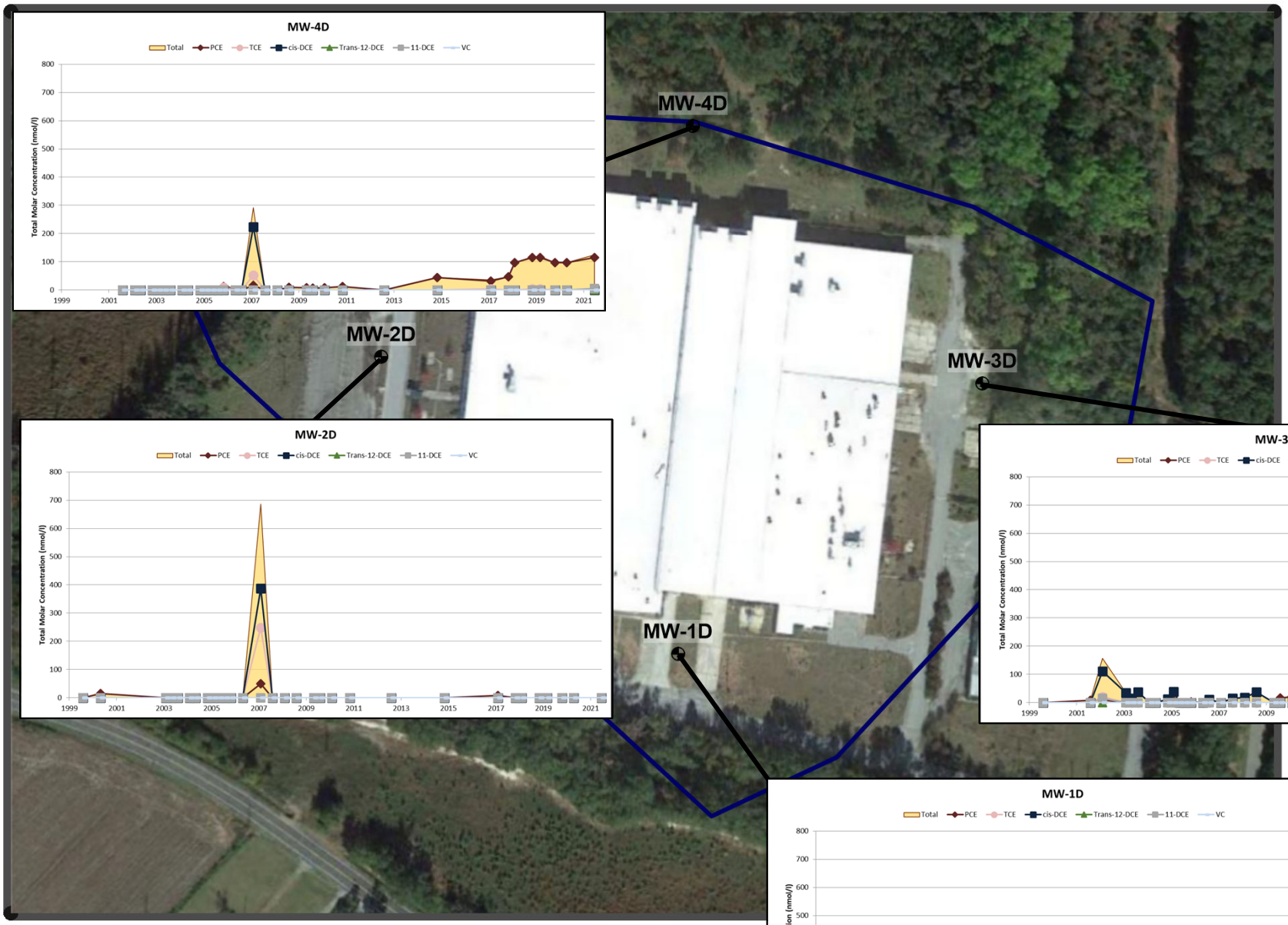
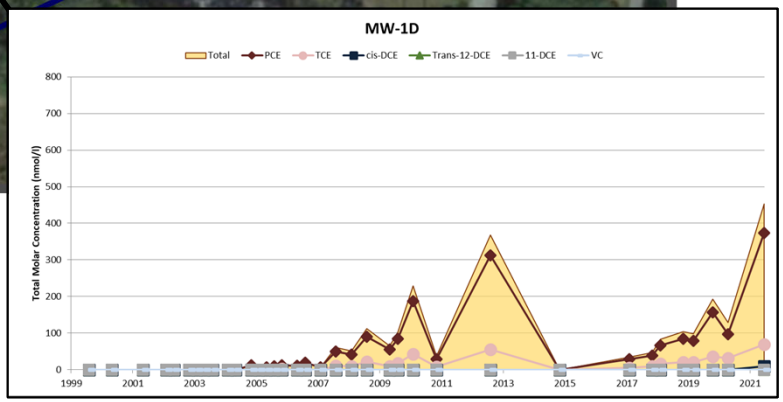
Chloroethenes Deep





0 ft 215 ft 430 ft

LEGEND

MW-1 Monitoring Well

N

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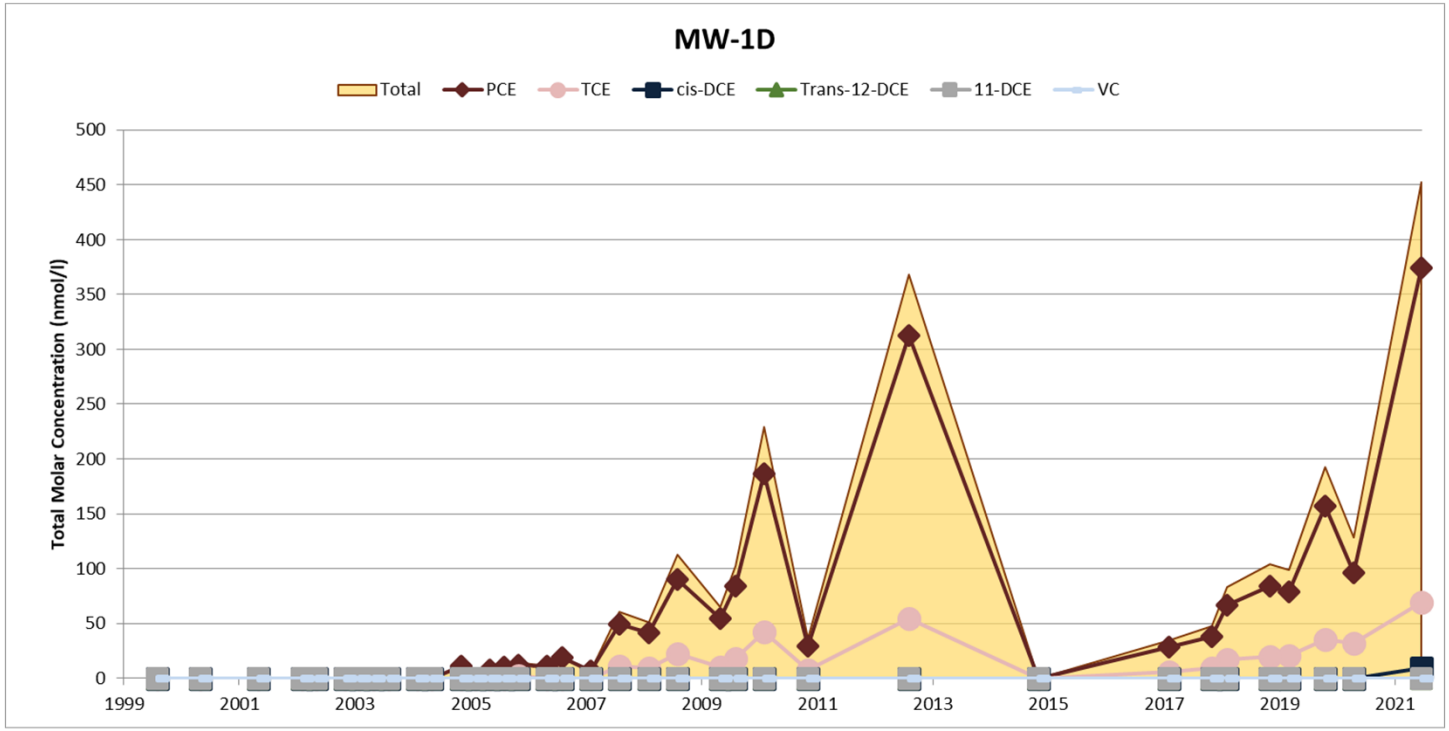

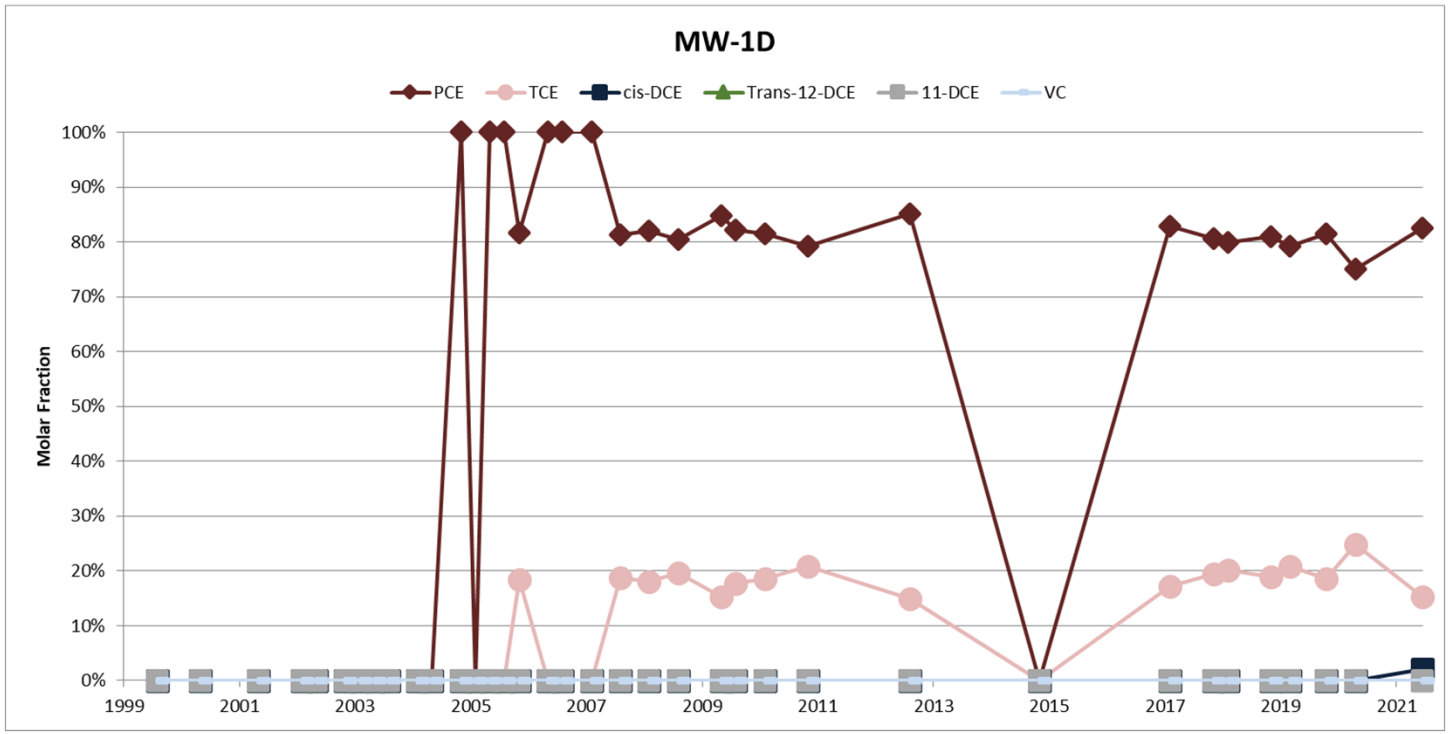

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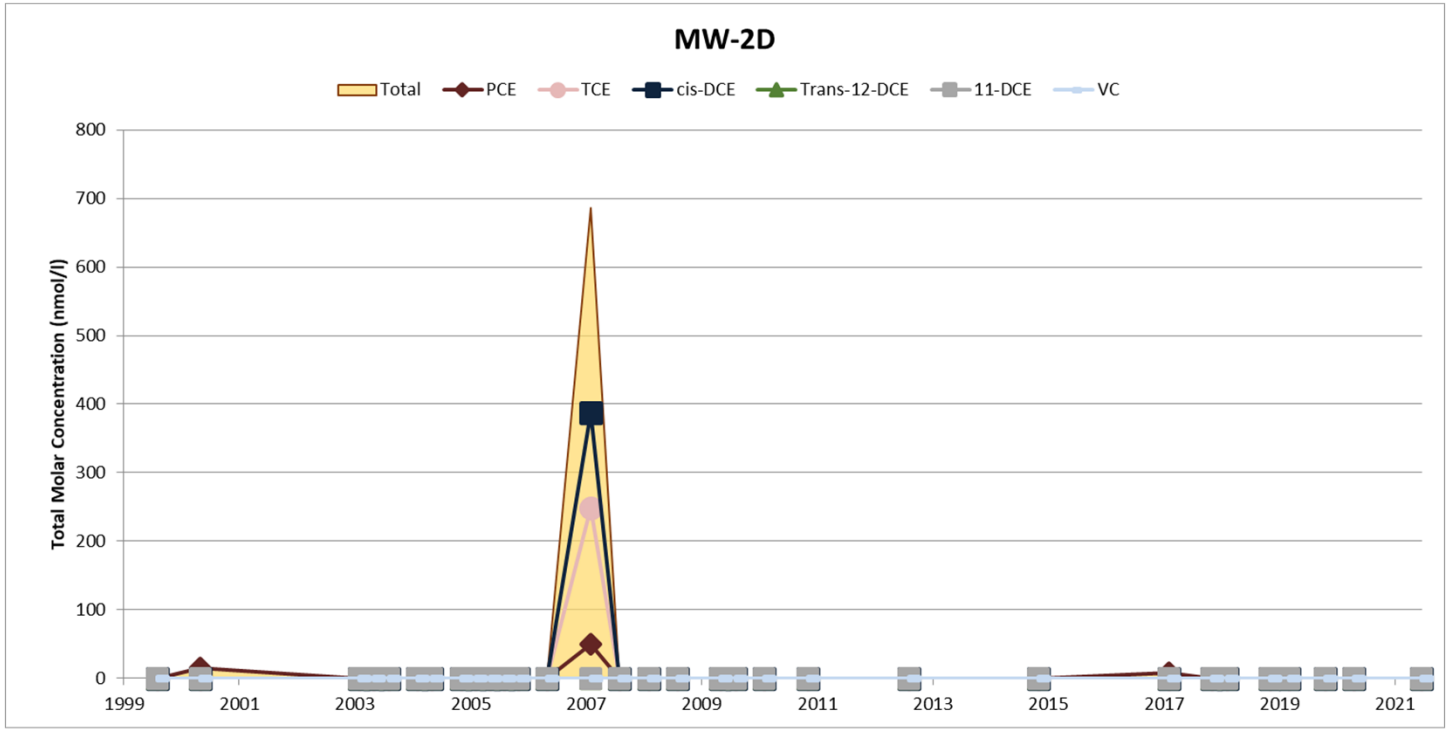

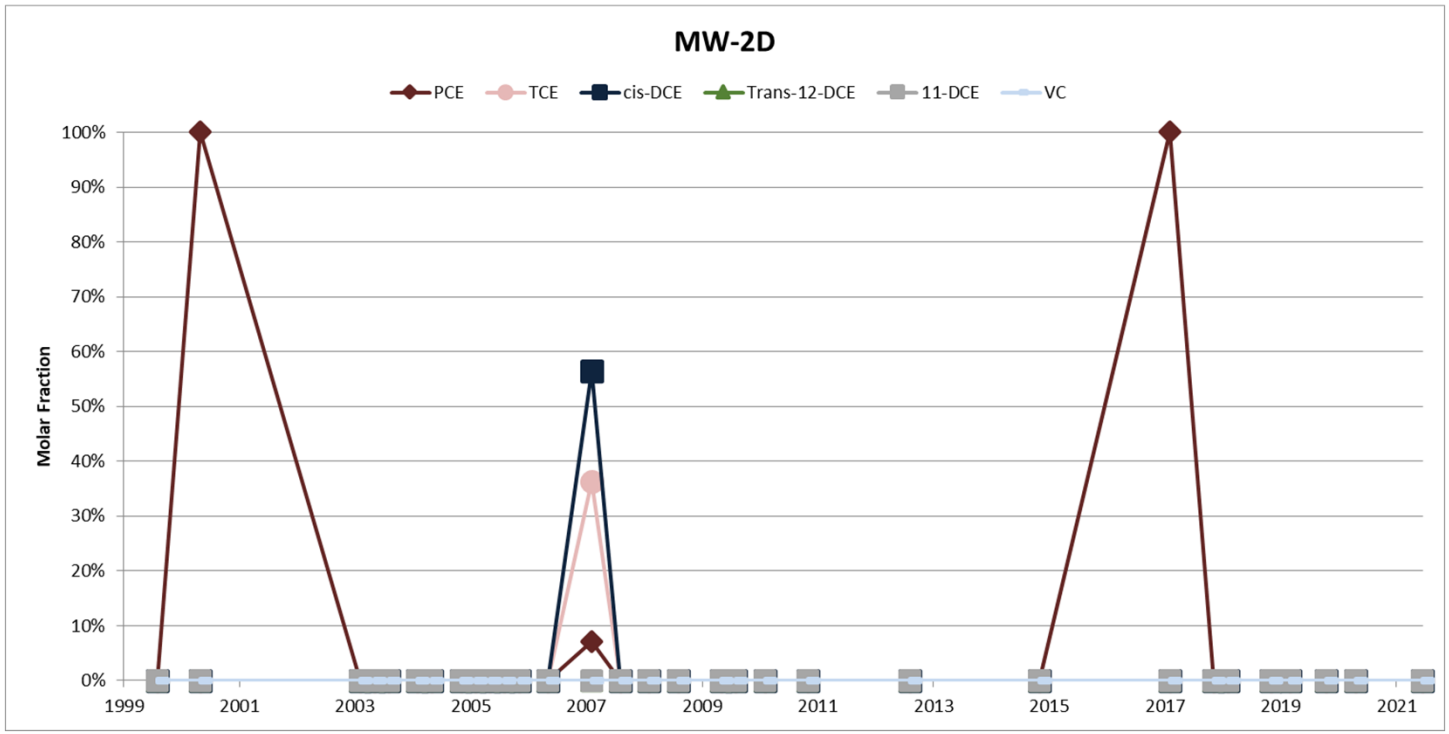

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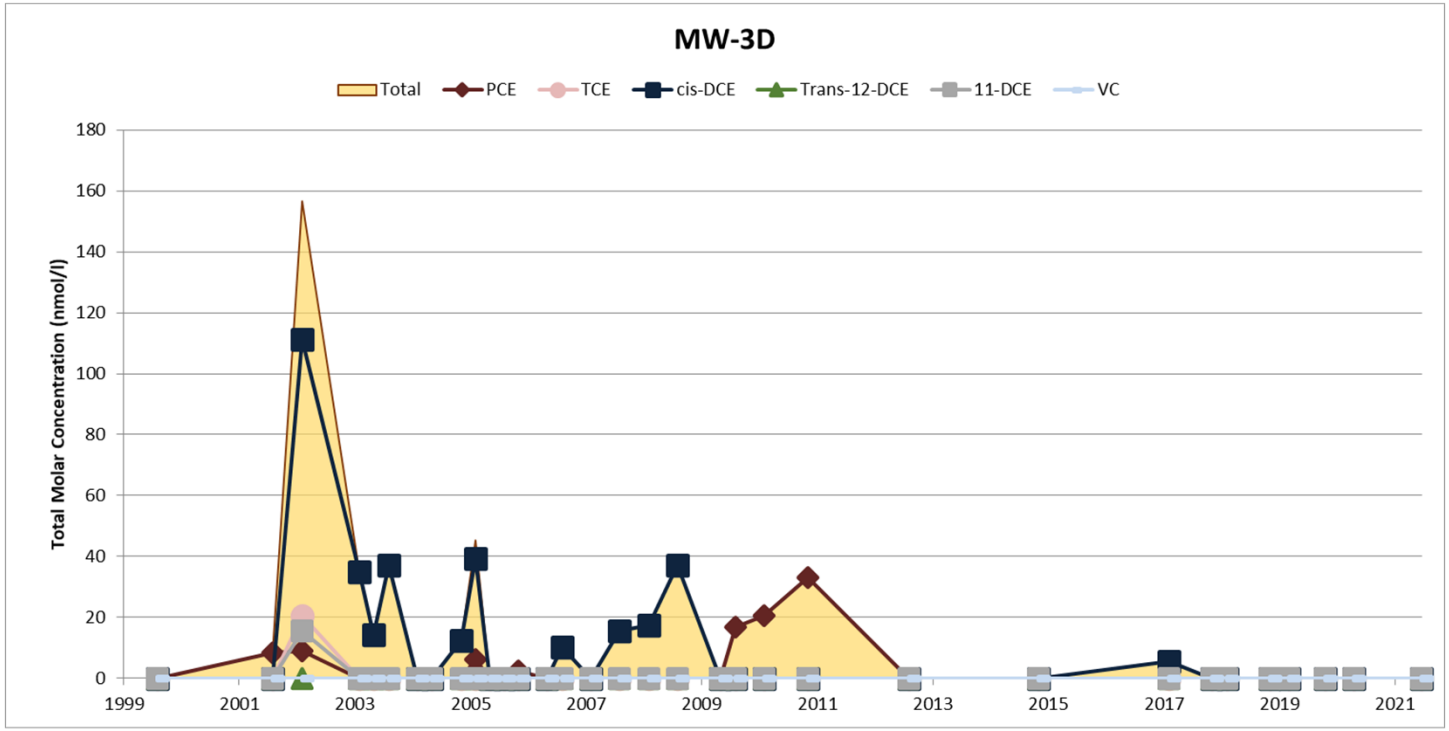

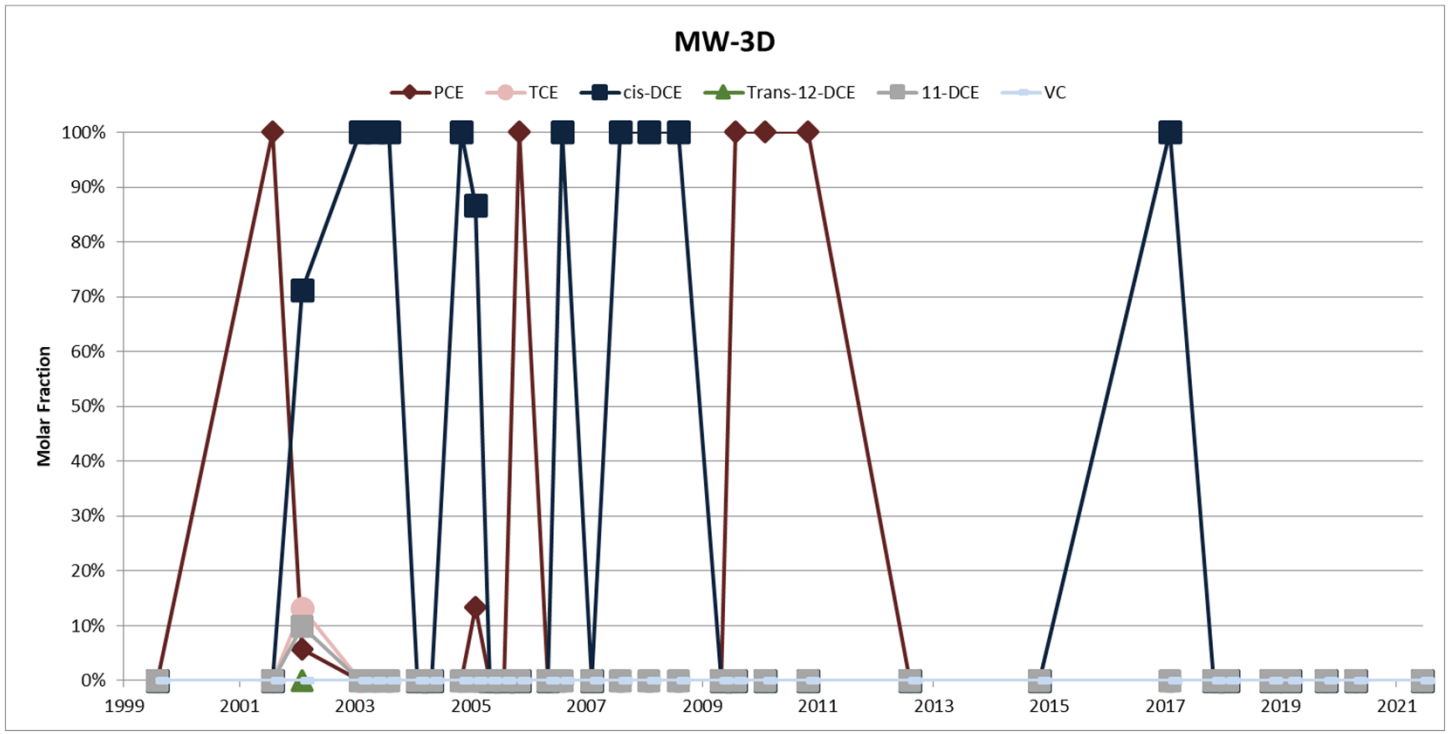

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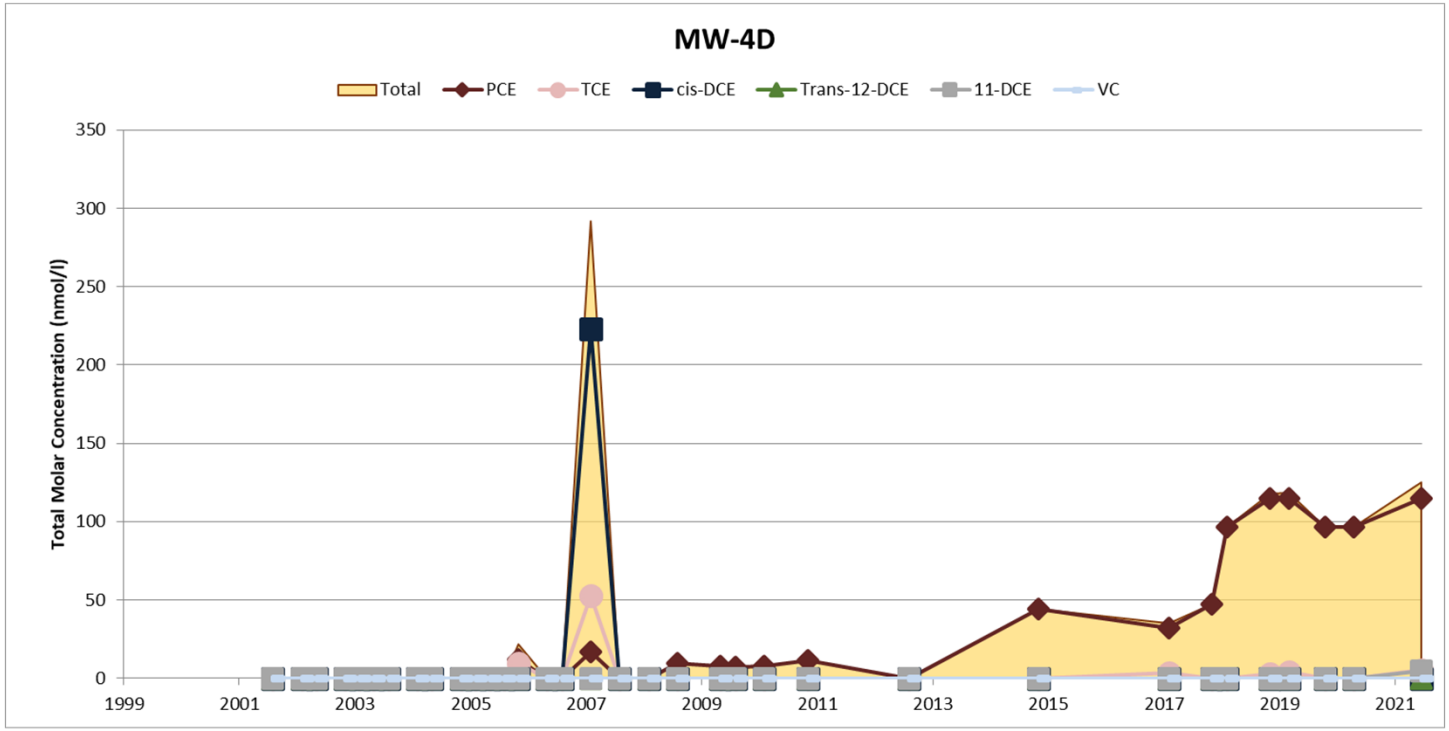

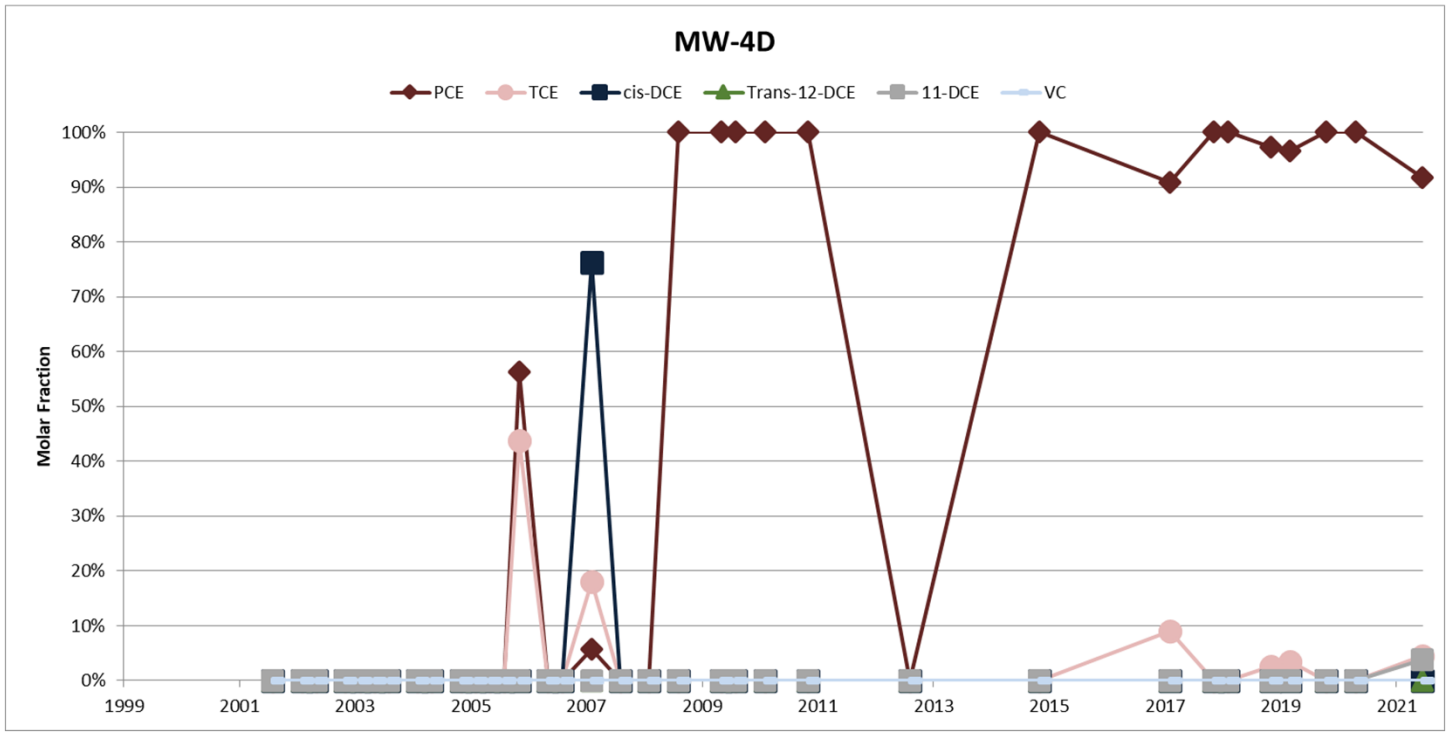

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