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GROUNDWATER MONITORING REPORT
EVENT 43 – August 2021

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List of Acronyms

amsl	above mean sea level
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
DEQ	Department of Environmental Quality
DO	dissolved oxygen
DOE	United States Department of Energy
EPA	U.S. Environmental Protection Agency
GWMP	Groundwater Monitoring Plan
ICF	ICF International
MCL	maximum contaminant level
MML	maximum measurable level
mS/cm	milliSiemens per centimeter
mV	millivolts
NETL	National Energy Technology Laboratory
NGVD	National Geodetic Vertical Datum
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PRG	preliminary remediation goal
PVC	polyvinyl chloride
RBC	risk-based concentration
RSL	regional screening level
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
URS	URS Corporation
VOC	volatile organic compounds
µg/L	micrograms per liter
° C	degrees Celsius

Executive Summary

This report describes the August 2021 (Periodic Event 43) groundwater sampling and analysis activities performed by WE2 at the United States Department of Energy (DOE) National Energy Technology Laboratory (NETL) in Albany, Oregon (the Site). The August 2021 sampling event is the 43rd round of groundwater samples collected from the NETL-Albany site since the initiation of the NETL-Albany groundwater monitoring program in 2002.

Groundwater levels were measured in thirty-five of the thirty-five monitoring wells and piezometers. The gauging data was used to create groundwater elevation contour maps for the two identified aquifers on site. Wells installed in the Perched Aquifer and deeper Gravel Aquifer zones provided spatial coverage to map the potentiometric surfaces of both aquifers as separate hydrogeologic units. Groundwater elevations from wells in the Perched Aquifer measured during the August 2021 event show a flow to the north in the northern portion of the site (from MW-10 to MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-28. In the Gravel Aquifer, groundwater elevation data shows a potentiometric high near monitoring well MW-14 from which flow is radially away in all directions.

Groundwater samples were collected from thirty-one of the thirty-three two-inch diameter monitoring wells between August 23 and August 27, 2021. Two wells (MW-1 and MW-21) were not sampled because they are not optimally screened based on the current understanding of the Conceptual Site Model (USSE2, July 2019). Low-flow sampling protocols were followed at each well in accordance with the NETL-Albany Groundwater Monitoring Plan (GWMP, USSE2, January 2020). All groundwater samples were submitted for analysis of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260C and metals by EPA Methods 200.7 Rev 4.4 and 200.8.

Seven VOCs were detected during the August 2021 sampling event and are discussed in Section 4.1: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), dichlorobromomethane, tetrachloroethene (PCE), trans-1,2-dichloroethene (trans-1,2-DCE), and trichloroethene (TCE). Five these VOCs were detected at concentrations that exceed Oregon Groundwater Maximum Measurement Levels (MMLs), Oregon Hot Spot tables, Oregon Risk-Based Concentrations (RBCs), EPA Regional Screening Levels (RSLs), or EPA Primary Maximum Contaminant Levels (MCLs).

1.0 Introduction

This report describes the August 2021 (Periodic Event 43) groundwater sampling and analysis performed by WE2 at the DOE NETL site in Albany, Oregon (Figure 1). The sampling was conducted in accordance with the Groundwater Monitoring Plan Revision 14, for National Energy Technology Laboratory, Albany, Oregon (USSE2, January 2020) and the National Energy Technology Laboratory, Albany Groundwater Sampling Event 43 Work Plan Memo (July 2021).

The NETL-Albany groundwater monitoring program was initiated in 2001, as was then required by DOE Order 5400.1, *General Environmental Protection Program*. The sampling has not been mandated by any other regulatory requirement or consent order. These monitoring requirements have since been incorporated into DOE Order 436.1, *Departmental Sustainability*.

1.1 Project Scope and Objectives

The objective of the NETL-Albany groundwater monitoring program is to perform a site-wide and a limited off-site evaluation of groundwater conditions to determine the presence and extent of groundwater contamination. The NETL-Albany groundwater monitoring program is designed to:

- Obtain data for the purpose of determining baseline conditions of groundwater quality and quantity;
- Demonstrate compliance with and implementation of all applicable regulations and DOE Orders;
- Provide data to permit the early detection of groundwater pollution or contamination;
- Provide a reporting mechanism for detected groundwater pollution or contamination;
- Identify existing and potential groundwater contamination sources and maintain surveillance of these sources;
- Provide data upon which decisions can be made concerning facility operations (including land, buildings and equipment), management and protection of groundwater resources and future remedial activities.

The August 2021 sampling event is the forty-third round of groundwater sampling conducted at the Site under the general program that was developed in 2001. The following table lists previous sampling events:

Event 1	July 2002	Event 22	August 2010
Event 2	November/December 2002	Event 23	March 2011
Event 3	February/March 2003	Event 24	August/September 2011
Event 4	May 2003	Event 25	March 2012
Event 5	August 2003	Event 26	August 2012
Event 6	November 2003	Event 27	March 2013
Event 7	February 2004	Event 28	August 2013
Event 8	May 2004	Event 29	February 2014
Event 9	October 2004	Event 30	August 2014
Event 10	February 2005	Event 31	March 2015
Event 11	September 2005	Event 32	August 2015
Event 12	February 2006	Event 33	April 2016
Event 13	October 2006	Event 34	September 2016
Event 14	March 2007	Event 35	April 2017
Event 15	June 2007	Event 36	August 2017
Event 16	October 2007	Event 37	March 2018
Event 17	March 2008	Event 38	August 2018
Event 18	October 2008	Event 39	March 2019
Event 19	March 2009	Event 40	August 2019
Event 20	September 2009	Event 41	March 2020
Event 21	March 2010	Event 42	March 2021

The groundwater data generated during these previous sampling events are discussed in detail in their respective periodic groundwater monitoring reports produced by ICF International (ICF, through Event 22), URS (a legacy AECOM company, Event 23 through Event 32), and AECOM/Amentum (with USSE2/WE2, Event 33 through Event 42). Historical data are also summarized in the latest version of the GWMP (USSE2, January 2020). Historical data are incorporated into this report in the form of contaminant concentration trend graphs (Figure 6).

A detailed description of the Site, including the site location, physical structures, and site history, is provided in the GWMP.

2.0 Field and Analytical Procedures

This section summarizes the field and analytical procedures conducted by WE2 during the August 2021 groundwater sampling event. Activities included the sampling and analysis of groundwater and the measurement of depth to groundwater. Field and analytical procedures were conducted in accordance with the GWMP. The monitoring well locations are shown in Figure 2.

2.1 Water Level Measurements

Groundwater depths were recorded at the thirty-five of thirty-five monitoring wells and piezometers on site (thirty-three two-inch diameter wells and two one-inch piezometers). Depth to water was measured to the nearest one-hundredth of a foot from the surveyed reference point on the polyvinyl chloride (PVC) well riser using an electronic hand-held water-level meter. These water-level data were used to calculate groundwater elevations and flow gradients that are discussed in Section 3.2 and to develop the contour maps presented in Figures 3 and 4. Table 1 shows the well construction details, and Table 2 and Table 3 show the depth to groundwater and groundwater elevations from Event 43.

2.2 Groundwater Sampling

Groundwater samples were collected between August 23 - 27, 2021 from thirty-one of thirty-three monitoring wells located at NETL-Albany and Liberty Elementary School. Two wells (MW-1 and MW-21) are not sampled because they are screened in the upper part of the Gravel Aquifer, where they do not monitor maximum concentrations of contaminants, and other adjacent wells (i.e., MW-22 and MW-23) are better suited to indicate concentrations at those depths and locations.

Samples were collected using low-flow sampling methods in accordance with the GWMP. Water quality measurements including temperature, pH, specific conductivity, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were recorded every 3-5 minutes during purging of monitoring wells using a multi-parameter water quality meter with flow-through cell. Groundwater samples were collected following the stabilization of water-quality parameters. Final water quality readings were recorded and are shown in Table 2. Sampling field logs are provided in Appendix A.

2.3 Laboratory Analysis

The thirty-one primary groundwater samples were analyzed for VOCs by EPA Method 8260C.

Two field duplicates and two matrix spike/matrix spike duplicate quality control samples were collected during the event, one set each from wells MW-20 and MW-28. Laboratory analysis procedures and methods were performed as described in the GWMP.

The complete laboratory analytical reports are presented in Appendix B and the analytical results for groundwater are tabulated in Appendix C. In addition, the groundwater purge water was analyzed and determined to be non-hazardous. The purge water laboratory report is also contained in Appendix B. The purge water will be disposed through the industrial waste water system in accordance with the site's industrial waste water permit.

2.4 Data Review and Validation

A data validation was performed on groundwater analytical results in accordance with the updated GWMP. The data validation included review of sample documentation, preservation and holding times, blank data, recovery data for laboratory control samples, and precision of duplicate results.

All data is valid as reported with the modifications specified in the data review and validation; and is usable for project decision-making purposes. The modifications are incorporated into all tables and maps in this report. The data validation memorandum is included in Appendix D.

3.0 Hydrogeological Assessment

The following sections summarize the hydrostratigraphy as first described by ICF and refined by AECOM. Section 3.2 describes groundwater flow directions for Event 43.

3.1 Geology and Hydrology

Several distinct geologic units have been identified at the site. The geologic and hydrogeologic characteristics of each unit are summarized below.

3.1.1 Upper Silt Unit

The Upper Silt Unit is present from the ground surface to a depth of approximately 15 feet below ground surface (bgs) and is predominantly silt and silty sand with laterally discontinuous clay lenses and thin water-bearing sands. It contacts the underlying Upper Clay Unit across most of the site. The Upper Silt Unit is subject to non-uniform surface water infiltration that can become locally perched on discontinuous clay lenses and saturate discontinuous sand lenses. These conditions contribute to a non-uniform saturation and heterogeneous groundwater elevations and groundwater flow throughout the unit referred to as the Perched Aquifer.

3.1.2 Upper Clay Unit

The Upper Clay Unit is a laterally discontinuous, dense, dry clay with a maximum thickness of approximately 10 feet. The Upper Clay Unit, when encountered, is located between the Upper Silt Unit and the underlying Gravel Aquifer at a depth of approximately 12 to 18 feet bgs. The current understanding of the lateral extent of the clay shows it as an inverted “T” shaped structure; however, it is important to note that the western extent of the clay has not been evaluated. In some areas, the clay grades into soft, brown, moist, silty clay for about 10 feet from the mapped edge of the dense, hard, dry clay. The soft brown clay may represent some relatively narrow transitional facies at the edge of the Upper Clay Unit.

The Upper Clay Unit is a localized aquitard and groundwater perches on it in some portions of the Site. The approximate extents of the Perched Aquifer were determined by ICF, refined by AECOM/USSE2, and are shown in Figure 3. Some borings that have penetrated the Upper Clay Unit have encountered an approximately 5-foot-thick zone of dry sediments composed of the underlying Gravel Aquifer, suggesting the Upper Clay Unit (where present) prevents vertical movement of water through the clay and into the Gravel Aquifer. Flow of the perched groundwater (where present) appears to be controlled in part by the surface topography of the clay. With water infiltration being significantly less during the dry season, there are variable flow patterns in the Perched Aquifer, with flow generally somewhat radial due to local mounding around wells MW-10 and MW-28. Groundwater flow in the southern part of the Site appears to consistently be to the south/southwest regardless of season.

3.1.3 Gravel Aquifer

The Gravel Aquifer is present from a depth of approximately 15 feet bgs to approximately 35 feet bgs and consists of gravelly sands and clayey/silty gravels which are saturated in most portions of the Site. Investigations indicate a change in lithology of the Gravel Aquifer in the northeast portion of the Site. The typical lithology of the Gravel Aquifer transitions to a predominant dark gray, poorly-graded sand with little or no gravel or fines in the northeast portion of the Site. This same unit was observed in several borings in the northwestern part of Liberty Elementary School near the ball fields. Groundwater elevation data and geologic data obtained during site assessments suggest that stratigraphic variations in the overlying Upper Silt Unit may cause local confining conditions in the Gravel Aquifer; therefore, the Gravel Aquifer is considered to be semi-confined. Where the Upper Clay is absent, the Upper Silt Unit directly overlies the Gravel Aquifer and forms a continuous semi-confined aquifer. Locally, the upper portion of the Gravel Aquifer immediately below the Upper Clay has been found to be only partially saturated.

Groundwater flow in the Gravel Aquifer is variable across the Site. The gradient in the central portion of the Site is very flat, and groundwater elevations decrease to the north and south, indicating a flow direction away from the

center portion of the Site with a slight east-southeast trend below Liberty Elementary School. In the southern part of the Site the groundwater gradient is generally to the southwest, and in the northern part of the Site the gradient is toward the northwest or northeast depending on the season. Water levels in wells screened across both the Upper Silt Unit and Gravel Aquifer (MW-1, MW-3, MW-5, MW-6, and MW-14) are consistent with water levels in the Gravel Aquifer. The majority of the seventeen wells installed on site since February 2005, and the four off-site wells installed in September 2006 were constructed such that the screened interval only penetrates the deep Gravel Aquifer and does not intercept the Upper Silt Unit. This was later confirmed based on contaminants of potential concerns identified in the earlier sampling events of the site's original wells.

3.1.4 Lower Silt/Clay Unit

The Lower Silt/Clay Unit includes two stratigraphic units (Siltstone and Blue Clay) that underlie the Gravel Aquifer. In general, the Blue Clay underlies the Siltstone Unit; however, in portions of the Site, the Siltstone Unit is not present, and the Gravel Aquifer directly overlies the Blue Clay. The Lower Silt/Clay Unit is an aquitard that restricts the vertical movement of water. The surface of the Lower Silt/Clay Unit in the southwestern portion of the Site dips steeply to the southwest. The surface of the Lower Silt/Clay Unit in the eastern portion of the Site and at Liberty Elementary School dips to the east/northeast. In the northwest part of the Site the Lower Silt Clay dips to the northwest.

3.2 August 2021 Groundwater Elevations and Flow Direction

Groundwater levels were measured in the thirty-five existing wells and piezometers in August 2021. Groundwater depths ranged from 6.62 feet bgs at MW-28 to 23.75 feet bgs at MW-20. Groundwater elevations ranged from 199.32 feet above mean sea level (amsl) at MW-5 to 216.90 feet amsl at MW-28. Event 43 and historical groundwater elevation data are provided in Table 3. Note that all groundwater elevations are referenced to National Geodetic Vertical Datum (NGVD), 1947.

The wet winters and dry summers result in seasonal variability in groundwater elevations at the Site. The groundwater elevations reflect the low precipitation during the dry season (between July and September) as compared to much higher amounts during the wet season (between November and May).

The average August 2021 groundwater elevation (205.23 feet) was 2.46 feet lower than the average elevation during the previous dry season (August 2019, 207.69 feet) and 7.35 feet lower than the previous wet season (March 2021, (212.58 feet).

Figures 3 and 4 show the groundwater elevation contours for the Perched Aquifer and Gravel Aquifer, respectively, for the August 2021 groundwater level measurements. Groundwater elevations from wells screened in the Gravel Aquifer were used to construct a potentiometric map of the Gravel Aquifer. Selected wells screened across both the Upper Silt and Gravel Aquifer zones are included in groundwater contouring because screens in these wells penetrate well into the Gravel Aquifer and appear to be representative of the Gravel Aquifer. These wells are generally located at the perimeter of the site.

Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the August 2021 event show a flow to the north in the northern portion of the site (from MW-10 to MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-28. The gradient during August 2021 was 1.40 E-04 (between MW-10 to MW-11) in the northern part of the site, and between 1.06 E-02 (between MW-10 to MW-8) and 2.55 E-03 (between MW-10 to MW-4) in the southern part of the site.

In the Gravel Aquifer, groundwater elevation data shows a potentiometric high near monitoring well MW-14 from which flow is radially away in all directions (Figure 4). The gradient in the gravel aquifer is relatively flat across the site and under the Liberty Elementary School property; 4.04 E-04 (between MW-23 and MW-24); and -3.09 E-03 (between MW-25 and MW-23). The gradient steepens to the south; 7.18 E-03 (between MW-16 and MW-6) and 3.39 E-03 (between MW-16 and MW-31). Table 4 shows hydraulic gradient calculations.

4.0 Groundwater Quality Assessment

This section summarizes the results of the chemical analyses performed on groundwater samples collected during the August 2021 sampling event. Groundwater samples from thirty-one monitoring wells were analyzed for VOCs and fourteen wells for metals. Table 5 summarizes the August 2021 groundwater analytical results for detected constituents including the minimum applicable screening criteria, the frequency of detection, the frequency of detections exceeding screening criteria, the minimum and maximum concentrations, and the location of the maximum concentration. Table 6 lists groundwater analytical results for any detected volatile organic chemicals. Appendix B includes the Test America Laboratories Analytical Reports and Appendix C summarizes all reported groundwater lab data of volatile organics.

Table 7 lists federal and state groundwater quality standards and criteria for VOCs and metals. The table includes Oregon Groundwater MMLs as defined in Oregon Administrative Rule 340-040-0020 (Groundwater Quality Protection). The MMLs are the maximum allowable concentrations of the chemicals in groundwater established by the State of Oregon. The Oregon Department of Environmental Quality (DEQ) uses the MMLs in the process of designating groundwater management areas in Oregon where necessary to preserve groundwater quality. MMLs are not *de facto* cleanup levels but are generally consistent with the EPA Primary MCLs. The MCLs are the levels established by the EPA that cannot be exceeded by a public water supply system. Oregon and EPA have also established risk-based criteria for screening purposes. The Oregon Hotspot values are screening values that are a combination of promulgated criteria and guidance values used by the state to prioritize groundwater cleanups. The EPA RSL values were calculated using the latest toxicity values, default exposure assumptions, and physical and chemical properties. The EPA RSL values incorporate the EPA Region III RBC Table, Region VI human health medium-specific screening levels table, and the Region IX Preliminary Remediation Goal (PRG) Table, and was last updated in November 2017. The Oregon DEQ RBC values are similar to the EPA RSLs but use Oregon-specific parameters to calculate risk. Oregon DEQ Petroleum RBCs were updated November 2015. Minimum criteria values used in this report reflect up to date EPA RSLs and Oregon DEQ RBCs.

The August 2021 groundwater data are compared to the lowest screening criteria for each analyte and are discussed in the following sections. Any result annotated with a “U” qualifier (in either the tables or appendices) or reported “ND” in the lab report signifies that the chemical was not detected above the method detection limit. Any result annotated with a “J” qualifier is an estimate, since the value is below the method reporting limit but above the method detection limit.

Laboratory method detection limits for VOCs and metals may be greater than the minimum applicable screening criteria. Therefore, while these compounds were not detected above the method detection limits, they may still be present above screening criteria.

4.1 Volatile Organic Compounds

Seven VOCs – carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), dichlorobromomethane, tetrachloroethene (PCE), trans-1,2-dichloroethene (trans-1,2-DCE), and trichloroethene (TCE) - were detected during the August 2021 sampling event. The current and historical concentrations of five common VOCs (carbon tetrachloride, chloroform, cis-1,2-DCE, PCE, and TCE) are presented graphically in Figure 6.

Carbon Tetrachloride. Carbon tetrachloride was detected in nine of the thirty-one wells sampled during the August 2021 sampling event at concentrations ranging from 0.42 J µg/L at MW-23 to 1,700 µg/L at MW-20. Nine of the detections of carbon tetrachloride exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.41 µg/L. In addition, eight of the detections exceed the EPA RSL of 0.43 µg/L. Six of the detections exceed the EPA Primary Drinking Water Standard, the Oregon Hot Spot Value and the Oregon Groundwater MMLs of 5 µg/L. Carbon tetrachloride is a solvent that was historically used in degreasing and other industrial applications.

Chloroform. Chloroform was detected in twelve of the thirty-one wells sampled during the August 2021 sampling event at concentrations ranging from 0.30 J µg/L at MW-3 to 160 µg/L at MW-20. All the detections of chloroform exceeded the minimum groundwater criteria for the site which is the Oregon DEQ RBC of 0.19 µg/L. In addition, all of the detected concentrations exceeded the EPA RSL of 0.22 µg/L, one of the detections exceeded the EPA Primary

Drinking Water Standard and the Oregon Hot Spot Value of 80 µg/L and the Oregon Groundwater MMLs of 100 µg/L. Chloroform is formed as a byproduct when chlorine is added to the water supply system and is also a breakdown product of the anaerobic degradation of carbon tetrachloride.

Cis-1,2-Dichloroethene (cis-1,2-DCE). Cis-1,2-DCE was detected in six of the thirty-one wells sampled during the August 2021 sampling event at concentrations ranging from 0.54 J µg/L at MW-100 to 5.8 µg/L at MW-30. One of the detections exceed the minimum screening criteria, which is the EPA RSL of 3.6 µg/L. Cis-1,2-DCE is an anaerobic breakdown product of TCE.

Dichlorobromomethane, Dichlorobromomethane was detected in one of the thirty-one wells sampled during the August 2021 sampling event at a concentration of 0.47 J µg/L at MW-14. The detection did not exceed the minimum screening criteria, which is the Oregon Groundwater MMLs of 100 µg/L Dichlorobromomethane has formerly been used as a flame retardant, and a solvent for fats and waxes and because of its high density for mineral separation. It can also occur in municipally-treated drinking water as a by-product of the chlorine disinfection process.

Tetrachloroethene (PCE). PCE was detected in four of the thirty-one wells sampled during the August 2021 sampling event at concentrations ranging from 0.78 J µg/L at MW-24 to 9.3 µg/L at MW-18. Two of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 4.1 µg/L. In addition, two of the concentrations exceed the EPA Primary Drinking Water Standard and Oregon Hot Spot Value of 5 µg/L. Tetrachloroethene is used for metal cleaning, degreasing, and dry cleaning.

Trans-1,2-Dichloroethene. Trans-1,2-Dichloroethene was detected in one of the thirty-one wells sampled during the August 2021 sampling event at a concentration of 0.53 J µg/L at MW-30. The detection did not exceed the minimum screening criteria, which is the EPA RSL of 36 µg/L. The primary uses for trans-1,2-dichloroethene are as a solvent in processing and in formulations for cleaning and degreasing, it is also an anaerobic breakdown product of TCE.

Trichloroethene (TCE). TCE was detected in thirteen of the thirty-one wells sampled during the August 2021 sampling event at concentrations ranging from 0.31 J µg/L at MW-23 to 190 µg/L at MW-20. All of the TCE detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.28 µg/L. In addition, Twelve of the detections exceed the Oregon DEQ RBC of 0.43 µg/L and eight of the detections exceed the Oregon MML, the Oregon Hot Spot Value and EPA Primary Drinking Water Standard of 5 µg/L. TCE is an industrial solvent used in degreasing and other industrial applications.

4.2 Metals

Twenty-one metals — aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, silver, sodium, thallium, vanadium, and zinc were detected during the August 2021 sampling event.

Aluminum. Aluminum was detected in 11 of the 14 wells sampled during the August 2021 sampling event. Ten wells exceeded the EPA Secondary Drinking Water Standard of 0.05 mg/L. The highest detection was at a concentration of 0.76 mg/L at MW-24.

Antimony. Antimony was detected in 3 of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.00022 J mg/L at MW-14. None of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.001 mg/L.

Arsenic. Arsenic was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.18 mg/L at MW-16. All detections exceed the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.000038 mg/L.

Barium. Barium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.19 mg/L at MW-16. None of the detected concentrations exceed the minimum screening criteria, which is the EPA RSL of 0.38 mg/L.

Beryllium. Beryllium was detected in 1 of the 14 wells sampled during the August 2021 sampling event. The detection was 0.00019 J mg/L at MW-16. None of the detections exceed the minimum screening criteria, which is the EPA RSL of 0.003 mg/L.

Cadmium. Cadmium was detected in 1 of 14 wells sampled during the August 2021 event. The detection was 0.00007 J mg/L at MW-13. The detection did not exceed the minimum screening criteria, which is the EPA RSL of 0.0009 mg/L.

Calcium. Calcium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 42 mg/L at MW-16. Screening criteria does not exist for calcium.

Chromium. Chromium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.0028 mg/L at MW-24. The detected concentrations exceeded the minimum groundwater criteria, which is the EPA RSL of 0.00035 mg/L, in 12 wells.

Cobalt. Cobalt was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.002 mg/L at MW-24.. Four of these detections exceed the minimum groundwater criteria, which is the EPA RSL of 0.0006 mg/L.

Copper. Copper was detected in 11 of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.0022 mg/L at MW-23. None of the detections exceed the minimum groundwater criteria, which is the EPA RSL of 0.08 mg/L.

Iron. Iron was detected in 13 of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 120 mg/L at MW-16. Seven of the detected concentrations exceed the minimum groundwater criteria, which is the Oregon MML, the Oregon Hot Spot Value and the EPA Secondary Drinking Water Standard of 0.3 mg/L.

Lead. Lead was detected in 10 of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.00037 J mg/L at MW-16. None of the detections exceeded the minimum groundwater criteria of 0.015 mg/L, the EPA Primary Drinking Water MCL.

Magnesium. Magnesium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 19 mg/L at both MW-4 and MW-18. Screening criteria does not exist for magnesium.

Manganese. Manganese was detected in all of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 1.2 mg/L at MW-20. Three of the detected concentrations exceed the minimum groundwater criteria, which is the EPA RSL of 0.043 mg/L.

Nickel. Nickel was detected in all of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.0064 mg/L at MW-13. None of the detections exceeded the minimum groundwater criteria, which is the EPA RSL of 0.22 mg/L.

Potassium. Potassium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 1.4 J mg/L at both MW-4 and MW-16. Screening criteria does not exist for potassium.

Silver. Silver was detected in 1 of 14 wells sampled during the August 2021 sampling event. The detected concentration was 0.00034 J at MW-4. The detection did not exceed the minimum groundwater criteria, which is the EPA RSL of 0.0094 mg/L.

Sodium. Sodium was detected in all 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 23 mg/L at MW-22. Screening criteria does not exist for sodium.

Thallium. Thallium was detected in 1 of 14 wells sampled during the August 2021 sampling event. The detected concentration was 0,000029 J at MW-14. The detection exceeded the minimum groundwater criteria, which is the EPA RSL of 0.00002 mg/L.

Vanadium. Vanadium was detected in all of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.012 mg/L at MW-20. Seven of the detected concentrations exceed the minimum groundwater criteria, which is the EPA RSL of 0.0086 mg/L.

Zinc. Zinc was detected in all of the 14 wells sampled during the August 2021 sampling event. The highest was detected at a concentration of 0.0091 mg/L at MW-24. None exceeded the minimum groundwater criteria, which is the EPA RSL of 0.6 mg/L.

4.3 Water Quality Parameters

Table 2 summarizes field parameters recorded at each of the thirty-one wells, including pH, conductivity, turbidity, DO, temperature, and ORP.

In August 2021:

- Temperatures ranged from 13.9 degrees Celsius (°C) at MW-6 to 24.0 °C at MW-29.
- DO was detected in twenty-nine of the thirty-one wells.
- pH ranged from 6.29 s.u. at MW-11 to 10.96 s.u. at MW-17.
- Conductivity ranged from 0.125 milli Siemens per centimeter (mS/cm) at MW-28 to 0.530 mS/cm at MW-29.
- ORP ranged from -143 millivolts (mV) at MW-29 to 167 mV at MW-6.
- Twenty-eight of the thirty-one wells sampled had measurable turbidity once readings stabilized. The measurable turbidity ranged from 0.7 nephelometric turbidity units (NTUs) at MW-9, to 187 NTUs at MW-16.

4.4 Contaminant Trends

Several important trends in the VOC concentrations were noted at 19 locations: MW-3, MW-4, MW-5, MW-6, MW-14, MW-15, MW-17, MW-18, MW-20, MW-22, MW-23, MW-24, MW-27, MW-29, MW-30, MW-100, MW-101, MW-102 and MW-103. Trend plots (Figure 6) support the discussion below.

- *MW-3.* Concentrations of chloroform and TCE were detected for the first time since August 2017. Cis-1,2-DCE remains non-detected since August 2017.
- *MW-*4. Carbon tetrachloride was last detected in March 2020, the only other detection was in April 2016.
- *MW-*5. Concentrations of chloroform continue to fluctuate with higher concentrations reported during the dry season; 1.8 µg/l was reported for August 2021, below the previous high recorded in August 2017 of 4.8 µg/l. The March 2021 concentration was 0.79 µg/l, slightly lower than the value of 0.89 µg/l in March 2020. Concentrations of carbon tetrachloride were elevated at 15.0 µg/l during the March 2009 sampling event but decreased to non-detect in August 2009.
- *MW-*6. Concentrations of cis-1,2-DCE continue to fluctuate, with higher concentrations reported during the dry season. Cis-1,2-DCE was 0.69 µg/l in August 2021, slightly down from 0.92 µg/l in August 2019. Carbon tetrachloride, chloroform, TCE, and PCE continued to be non-detect during the August 2021 sampling event.
- *MW-14.* Concentrations of chloroform continue to fluctuate with higher concentrations reported during the wet season, but with an overall downward trend since the most recent high of 12 µg/L in April 2016. However, the concentration of chloroform of 11 ug/l in August 2021 is a sharp increase from the trend and the highest since April 2016. The carbon tetrachloride concentration remained non-detected since the 0.40 J µg/L in March 2020. Concentrations of cis-1,2-DCE, TCE, and PCE remain non-detected during the August 2021 sampling event.

- *MW-15.* Concentrations of TCE continued to decrease after an all-time high of 3,100 µg/L in March 2019. The TCE concentration was 130 µg/L in August 2021, significantly lower than 1,400 µg/L in August 2019. This will continue to be evaluated. Concentrations of chloroform decreased in August 2021 from August 2019. Cis-1,2.-DCE was non-detected in August 2021 after being detected in August 2019. Concentrations of PCE remain non-detected.
- *MW-17.* TCE was reported at 44 µg/L in August 2021, the highest since 120 µg/L in August 2015. Carbon tetrachloride was detected at a low concentration (0.62 µg/L) like the previous dry season sampling event (August 2019). Carbon tetrachloride concentrations have shown a downward trend since August 2014. Chloroform was present at 0.46 µg/L in August 2021 after 0.28 µg/L in March 2021, the first detection since August 2017 (0.43 µg/L). Cis-1,2-DCE was detected in August 2021 (1.5 µg/L) for the first time since August 2017. PCE remained non-detect during the August 2021 sampling event.
- *MW-18.* The five primary VOCs (carbon tetrachloride, chloroform, cis-1,2-DCE, TCE, and PCE) show seasonal trends, returning to typical higher concentrations during the wet season. Record low concentrations of carbon tetrachloride, TCE, chloroform, and PCE were detected in March 2021. New record lows were established in August 2021 for carbon tetrachloride, chloroform, and PCE.
- *MW-20.* Concentrations of carbon tetrachloride, chloroform, PCE, and TCE fluctuate seasonally and decreased slightly in August 2021 as compared to the previous wet season sampling event (March 2021). A new record was set for dry season carbon tetrachloride concentrations at 1700 µg/L. Carbon tetrachloride, chloroform, and PCE all have long-term increasing concentrations.
- *MW-22.* Concentrations of carbon tetrachloride and chloroform decreased slightly in August 2021 from the prior sampling event (March 2021). PCE, cis-1,2-DCE, and TCE increased slightly in August 2021 from the prior sampling event (March 2021). TCE continues to decrease, but the four other contaminants have been at relatively stable concentrations since September 2016.
- *MW-23.* Concentrations of carbon tetrachloride, chloroform, and TCE in August 2021 decreased from the last sampling event (March 2021) and are the lowest since August 2018. This continues a downward trend that started in in 2012. Cis-1,2-DCE and PCE remain at non-detected concentrations.
- *MW-24.* Concentrations of carbon tetrachloride, chloroform, PCE, and TCE in August 2021 were at new record levels since monitoring began in this well in 2007. Cis-1,2-DCE remained at non-detected concentrations. Carbon tetrachloride and PCE continued sharp spikes that started in March 2020.
- *MW*-27. Concentrations of carbon tetrachloride of 32 µg/L and of chloroform of 2.4 µg/L in August 2021 were record lows for this well, which is completed in the Perched aquifer. TCE was detected (0.59 µg/L) for only the third time since April 2016. Concentrations of cis-1,2-DCE and PCE remain at non-detected concentrations.
- *MW-29.* Carbon tetrachloride was detected for the first time in September 2016 but has since returned to non-detect.
- *MW*-30. The concentration of cis-1,2-DCE of 5.8 µg/L in August 2021 was higher than record low of 3.4 µg/L in March 2021, but continues a downward trend since 2012. Carbon tetrachloride, chloroform, PCE, and TCE remain non-detected.
- *MW-100.* The concentration of TCE in August 2021 (80 µg/L) was the highest since August 2011. Carbon tetrachloride at 1 µg/L was the highest since August 2013. Chloroform was detected for the first time since August 2014. and cis-1,2-DCE was detected for the first time since September 2016. PCE remains non-detected.
- *MW*-101. TCE was detected at 1.8 µg/l in August 2021, higher than 0.94 J µg/L for March 2021. This continues a strong overall upward trend since April 2017. Concentrations of carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE remain non-detected.
- *MW-102*. Concentrations of TCE of 6.5 µg/L in August 2021 was lower than 10 µg/L in March 2021 and was a record low. This continues a downward trend starting in 2006. Carbon tetrachloride, cis-1,2-DCE, chloroform, and PCE were non-detected.
- *MW*-103. TCE was detected at 0.57 µg/l in August 2021, the first time detected since for August 2014. Carbon tetrachloride was non-detected in August 2021, after being detected for the first time in March 2020. Chloroform, cis-1,2-DCE, PCE, and TCE remain non-detect.

Results from Event 43 groundwater sampling were used to evaluate the extent and stability of the primary constituents of concern. Primary constituents of concern are VOCs, including carbon tetrachloride, chloroform, TCE, cis-1,2-DCE and PCE. Concentration data are presented in isopleth maps for carbon tetrachloride, chloroform, TCE, and PCE in the Gravel Aquifer (Figure 7 through Figure 10). The concentrations of carbon tetrachloride in the

Perched Aquifer is presented in Figure 11 for this sampling event. The concentrations of cis 1,2-DCE in the Gravel Aquifer is presented in Figure 12.

Contour maps of chemical concentrations were contoured by hand, scanned, and digitized into ArcGIS. A discussion of the maps is presented below.

Carbon Tetrachloride. Carbon tetrachloride was detected in eight of the twenty-one wells in the Gravel Aquifer and one of the nine wells sampled in the Perched Aquifer. Figure 7 shows the distribution of carbon tetrachloride in the Gravel Aquifer. The pattern of contamination depicts a carbon tetrachloride plume extending off-site to the northwest. The highest detected carbon tetrachloride concentration (1700 µg/L) was in well MW-20, located north of the suspected primary source area near MW-18. The concentrations at MW-20 are typically the highest in both the wet and dry seasons and, as shown by trends in Figure 6, these values have been steadily increasing. Concentrations in MW-24 at the northern property boundary have been steadily increasing since approximately 2007. These trends continued in August 2021 with a new record high value of 250 µg/L. The concentrations at MW-18 fluctuate seasonally, but have been steadily decreasing since 2006. The value of 170 µg/L is an historic low value. Well MW-103, downgradient of the eastern limit of carbon tetrachloride contamination, never had a detectable concentration until March 2020, and has not been detected since. To the southwest, MW-22 had a concentration of 14 µg/L during Event 43. This well shows an overall decreasing trend in carbon tetrachloride concentrations since monitoring started in 2007. The data indicate that the extent of contamination may have migrated offsite to the southwest. As shown in Figure 11, The only detection of carbon tetrachloride in the Perched aquifer was in MW-27 at 32 µg/L. This is a new record low, and is consistent with the overall decreasing trend since 2012, when it was first sampled.

Chloroform. Chloroform is an early breakdown product of carbon tetrachloride in the reductive dechlorination and denitrification biological breakdown processes. Chloroform was detected in eleven of the twenty-two wells in the Gravel Aquifer and one of the wells in the Perched Aquifer. The extent of chloroform in the Gravel Aquifer (Figure 8) follows the same general trend as carbon tetrachloride, but at much lower concentrations. The highest chloroform concentration is at MW-20 (160 µg/L). Concentrations at MW-20 have shown a general increase in concentrations over time. At MW-18, which is located near the primary source area, chloroform concentrations have decreased considerably since August 2019. Trends in chloroform concentration (Figure 6) show that it tracks closely with carbon tetrachloride. Chloroform concentrations in the east-central part of the Site, specifically MW-14, have fluctuated greatly since March 2009, but the August value of 11 µg/L is the highest since 2016. Carbon tetrachloride, the precursor to chloroform, has been rarely observed in MW-14. Concentrations to the north of the release area, specifically MW-24 show a consistent increase in chloroform concentrations over time. Concentrations to the southwest (MW-22), have shown a decrease in concentrations over time. Delineation of concentrations is not complete further to the southwest beyond MW-22. Well MW-5, at the southern boundary of the Site, continues to have chloroform detections of greater than 1 µg/L.

Trichloroethene. Figure 9 shows contours of TCE concentrations in the Gravel Aquifer. TCE was detected in thirteen of the twenty-two wells in the Gravel Aquifer and no wells in the Perched Aquifer. Concentrations of TCE are highest in MW-20 at 190 µg/L. This is recent phenomenon starting in March 2021. Concentrations have been typically highest in MW-18 and MW-15, as both wells are located in the contaminant source areas. Concentrations in MW-15 spiked during March 2019 at 3100 µg/L, but then markedly decreased to a historic low of 70 µg/L in March 2021. The August 2021 value for MW-15 was 130 µg/L. Concentrations in MW-18 continue to fluctuate with higher concentrations reported during the wet season, but reached a new historic low of 44 µg/L in March 2021 followed by 94 µg/L in August. TCE concentrations continue to increase in the northern part of the site at MW-24 over time and reached a new maximum of 88 µg/L. Concentrations are consistently decreasing in the southwest part of the site at MW-22. TCE was detected in all four offsite wells, MW-100, MW-101, MW-102, and MW-103, in the eastern area of contamination. The concentration of 80 µg/L in MW-100 is the highest since 2011, and the detection in MW-103 is the first since 2014. Concentrations at MW-102 have been generally decreasing since approximately 2006.

Tetrachloroethene. PCE concentration contours are shown on Figure 10. During Event 43, PCE was detected in four of the twenty-two wells in the Gravel Aquifer and none in the Perched Aquifer. The highest concentration (9.3 µg/L) was at MW-18, which is an historic low. It appears likely that PCE sources near MW-18 are being transported offsite to the northwest near MW-20 along with other VOCs. PCE in MW-20 now exhibits seasonal variations which started in 2010. The August 2021 value of 8.1 µg/L follows an historic high concentration of 14 µg/L in March 2021. Concentrations along the northern site boundary at MW-24 have fluctuated greatly since 2012 but the August 2021

value is the highest concentration since sampling began (0.78 µg/L), whereas concentrations at MW-23 have remained non-detect since August 2012. PCE concentrations to the southwest, at MW-22, continue a steady decline that started in 2012. PCE has not been detected at the eastern perimeter of the Site, nor in the monitoring wells east of the Site on school property.

Cis 1,2-DCE. Cis 1,2-DCE occurs as a breakdown product of the progressive dechlorination of TCE, and concentration contours in the Gravel Aquifer are shown on Figure 12. During Event 43, cis 1,2-DCE was detected in four of the twenty-two wells in the Gravel Aquifer in three apparently discreet areas. The highest concentration (5.8 µg/L) was at MW-30, which is consistent with a decreasing trend that started in 2012, shortly after the well was installed. Concentrations in well MW-22 (2.2 µg/L), which appears connected to the occurrence in MW-30, continue at stable values around 2 µg/L. As in March 2021, cis 1,2-DCE was not detected in either source area well, MW-15 or MW-18. MW-20 (0.57 µg/L) has had periodic low but increasing cis 1,2-DCE detections. Although concentrations had been steadily decreasing from 2005 onward, MW-17 had cis 1,2-DCE (1.5 µg/L) for the first time since 2017 and the highest concentration since 2013.

5.0 Summary

This section summarizes WE2's observations on the results of the 43rd periodic sampling event conducted in August 2021.

5.1 Groundwater Flow

- Groundwater levels were measured in thirty-five of the thirty-five existing wells and piezometers in August 2021. Groundwater depths ranged from 6.62 feet bgs at MW-28 to 23.75 feet bgs at MW-20. Groundwater elevations ranged from 199.32 feet above mean sea level (amsl) at MW-5 to 216.90 feet amsl at MW-28.
- The average August 2021 groundwater elevation (205.23 feet) was 2.46 feet lower than the average elevation during the previous dry season (August 2019, 207.69 feet) and 7.35 feet lower than the previous wet season (March 2021, (212.58 feet).
- Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the March 2021 event show a flow to the north in the northern portion of the site (from MW-10 to MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-28.
- In the Gravel Aquifer, groundwater elevation data shows a potentiometric high near monitoring well MW-14 from which flow is radially away in all directions (Figure 4).

5.2 Groundwater Quality

- Carbon tetrachloride, chloroform, cis-1,2-DCE, dichlorobromomethane, PCE, trans-1,2-Dichloroethene, and TCE were detected during the August 2021 sampling event,
- Detections of carbon tetrachloride (9), chloroform (12), cis-1,2-DCE (1), PCE (2), and TCE (13) in groundwater exceeded minimum screening criteria.

5.3 Contaminant Trends

There are detections of VOCs at concentrations greater than screening criteria near the site boundary and notable increases in VOC concentrations in some wells. In particular, VOC concentrations have increased substantially in the Gravel Aquifer in the northwest corner of the site.

- Carbon tetrachloride concentrations continue to climb in wells MW-20 and MW-24 at the northwest and north boundaries of the Site indicating plume movement beyond the property line. A new historic high of 250 µg/l was detected in MW-24 and a high but stable value of 1700 µg/l in MW-20. Chloroform concentrations in these wells mirror those of carbon tetrachloride and indicate some natural biological dechlorination. TCE trends in both wells are similar, with well MW-20 showing strong seasonal variations.

Concentrations in several wells are stable or decreasing.

- In well MW-22, located at the edge of the Site southwest of the Building 17 leach field source area, concentrations of chloroform and carbon tetrachloride have stabilized since approximately August 2016 after declining sharply from high values in 2007, when sampling began. Concentrations of TCE and PCE continue to decrease. This likely means that that the plume has largely left the Site.
- MW-15 TCE concentrations have sharply decreased from a record high spike of 3100 µg/l in March 2019 to a record low of 70 µg/l in March 2021, followed by 130 µg/l in August. The reason for these departures from a long-term decrease since 2004 in the 1992 drum spill source area are unknown and will continue to be evaluated. Concentrations of carbon tetrachloride and chloroform have steadily decreased since 2006.
- MW-18 is located near the solvent disposal sump source area and has historically been the well with the highest contaminant concentrations on the Site. Carbon tetrachloride, chloroform, TCE, and PCE have been declining and strongly seasonal in MW-18 since it was first sampled in 2006. The March 2021

concentrations were record lows for all of these contaminants in this well. New record lows were established in August 2021 for carbon tetrachloride, chloroform, and PCE.

- In wells to the east of the 1992 drum spill source area near MW-15, TCE concentrations at wells MW-17 and MW-100 showed significant increases and TCE was detected in all four offsite wells.

6.0 References

Oregon Department of Environmental Quality, *Numerical Groundwater Quality Reference Levels, Interim Standards for Maximum Measurable Levels of Contaminants in Groundwater, and Permanent Standards for Maximum Measurable Levels of Contaminants in Groundwater*, as delineated by Oregon Administrative Rules 340-40-020 and 090: November 14, 1997.

Oregon Department of Environmental Quality, *Pre-Calculated Hot Spot Look-Up Tables*, as delineated by Oregon Administrative Rules 340-122-010 through 115: October 20, 1998. Tables updated June 7, 2012. Latest version can be found at http://www.deq.state.or.us/lq/pubs/docs/RBDMHotSpotTable.pdf

Oregon Department of Environmental Quality, *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites*, as delineated by Oregon Administrative Rules 340-122-0205 through 0360: Electronic spreadsheets updated June 7, 2012. Latest version available at http://www.deq.state.or.us/lq/rbdm.htm

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USSE2, *Groundwater Monitoring Plan for the National Energy Technology Laboratory-Albany, Revision 14, Albany, Oregon.* January 2020.

USSE2, *Technical Memorandum: Conceptual Site Model Report for the National Energy Technology Laboratory (Formerly Albany Research Center), U.S. Department of Energy- Albany, Oregon.* July 2019.

WE2, *National Energy Technology Laboratory, Albany Groundwater Sampling Event 43 Work Plan Memo. July 2021*.

Tables

Table 1
Monitoring Well Construction

Groundwater Sampling Event 43
Albany NETL, Albany, OR

Well Number	Total Depth	Screen Depth	Blank Casing	Filter Pack Depth
MW-1	30	15-30	0-15	12.1-30
MW-3	24	9-24	0-9	7-24
MW-4	20	10-20	0-10	8-20
MW-5	30	14.5-29.5	0-14.5	11-30
MW-6	30	14-29	0-14	12-30
MW-7	20	10-20	0-10	7-20
MW-8	20	10-20	0-10	7-20
MW-9	25	10-25	0-10	7.2-25
MW-10	25	10-25	0-10	6.5-25
MW-11	20	9.5-19.5	0-9.5	6.5-20
MW-13	25	10-25	0-10	7.3-25
MW-14	28	8-28	0-8	6.7-28
MW-15	35	25-35	0-25	23.1-36
MW-16	33	23-33	0-23	20.8-35.5
MW-17	30	20-30	0-20	18.1-38
MW-18	32	22-32	0-22	20-33
MW-19	31.5	21.5-31.5	0-21.5	19.5-32
MW-20	35	25-35	0-25	23-36
MW-21	31	20-30	0-20	18-31
MW-22	53	40-50	0-40	38-50.5
MW-23	41	27-37	0-27	25-37.5
MW-24	46	35.5-43.5	0-33.5	31.5-44
MW-25	36	19-29	0-19	17-29.5
MW-26	30	20-30	0-20	18-30
MW-27	15	10-15	0-10	8-15
MW-28	14	9-14	0-9	7-14
MW-29	29	24-29	0-24	22-29
MW-30	38	28-38	0-28	26-38
MW-31	38	28-38	0-28	26-38
MW-100	27	17-27	0-17	14.5-27.5
MW-101	27	17-27	0-17	17-30
MW-102	37	27-37	0-27	24.5-37.5
MW-103	45	35-45	0-35	34.5-47.5
PZ-1A	13	13-18	0-13	12-18.2
PZ-1B	26	21-26	0-21	20-26.2

Notes:

All measurements in feet below ground surface

All wells are completed with flush mount monuments

Table 2
Groundwater Depth, Elevation, and Water Quality Measurements

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Well Number	Sample Date	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)	Water Quality Measurements					
					pH	Temperature (°C)	Specific Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)
MW-1	8/23/21	228.10	21.78	206.32	-	-	-	-	-	-
MW-3	8/23/21	219.61	13.84	205.77	8.40	19.7	0.272	7.2	7.07	144
MW-4	8/23/21	218.28	9.00	209.28	7.02	22.7	0.383	1.2	0.52	54
MW-5	8/25/21	217.08	17.76	199.32	7.17	16.8	0.354	5.2	0.90	59
MW-6	8/25/21	219.48	20.07	199.41	7.18	13.9	0.165	2.0	2.90	167
MW-7	8/26/21	216.85	10.48	206.37	6.74	18.2	0.291	5.1	2.05	140
MW-8	8/24/21	220.23	15.76	204.47	7.14	14.8	0.194	2.0	1.23	144
MW-9	8/24/21	224.00	14.61	209.39	6.88	16.5	0.230	0.7	2.59	131
MW-10	8/24/21	225.41	13.05	212.36	6.60	21.1	0.133	10.0	1.40	133
MW-11	8/25/21	227.73	15.44	212.29	6.29	17.9	0.156	41.4	0.98	84
MW-13	8/23/21	223.31	17.37	205.94	7.21	22.4	0.182	1.8	2.00	132
MW-14	8/23/21	224.77	14.25	210.52	7.59	19.7	0.160	8.6	3.03	124
MW-15	8/26/21	222.96	19.60	203.36	7.33	18.5	0.397	7.2	2.40	123
MW-16	8/26/21	217.57	14.83	202.74	6.97	17.1	0.355	187	0.03	114
MW-17	8/23/21	218.84	13.91	204.93	10.96	15.2	0.330	2.1	15.11	55
MW-18	8/26/21	224.00	20.35	203.65	7.31	17.2	0.434	0.0	1.76	138
MW-19	8/24/21	224.20	20.94	203.26	6.72	15.2	0.148	0.0	0.00	131
MW-20	8/24/21	225.62	23.75	201.87	7.04	22.2	0.358	1.18	7.15	103
MW-21	8/24/21	216.60	14.20	202.40	-	-	-	-	-	-
MW-22	8/24/21	216.57	14.14	202.43	7.42	23.2	0.281	3.2	0.46	-14
MW-23	8/23/21	227.87	21.56	206.31	7.56	19.6	0.328	2.9	6.67	121
MW-24	8/25/21	227.49	21.31	206.18	7.16	18.5	0.318	6.0	1.71	-10
MW-25	8/24/21	220.38	18.15	202.23	7.04	14.7	0.201	2.7	1.50	142
MW-26	8/23/21	220.63	14.35	206.28	7.52	20.8	0.284	5.5	0.90	132
MW-27	8/26/21	222.80	14.37	208.43	7.38	19.3	0.291	6.3	6.11	155
MW-28	8/26/21	223.52	6.62	216.90	7.90	19.4	0.125	6.3	4.11	126
MW-29	8/23/21	217.93	15.56	202.37	7.51	24.0	0.530	14.9	0.94	-143
MW-30	8/25/21	219.26	18.04	201.22	7.35	17.2	0.352	8.1	1.03	-81
MW-31	8/25/21	216.78	16.28	200.50	7.72	16.8	0.401	0.0	0.00	-114
MW-100	8/25/21	218.37	14.03	204.34	7.41	23.7	0.522	113	1.02	96
MW-101	8/25/21	218.54	15.07	203.47	7.40	19.6	0.437	1.0	1.62	83
MW-102	8/25/21	217.64	12.38	205.26	7.91	21.1	0.305	2.7	1.01	89
MW-103	8/25/21	216.51	10.00	206.51	7.65	23.2	0.311	3.2	3.20	127
PZ-1A	8/26/21	220.10	16.59	203.51	-	-	-	-	-	-
PZ-1B	8/26/21	220.05	16.50	203.55	-	-	-	-	-	-

Notes:
ft = feet
AMSL = Above Mean Sea Level
- = Not sampled
mS/cm = MilliSiemens per centimeter
NTUs = Nephelometric Turbidity Units
mg/L = Milligrams per liter
ORP = Oxidation-Reduction Potential
°C = Degrees Celsius
mV = Millivolts

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)																
		8/23/2021	8/23/2021	3/2/2021	3/2/2020	8/26/2019	3/25/2019	8/20/2018	3/19/2018	9/1/2017	4/10/2017	9/16/2016	4/3/2016	8/20/2015	3/19/2015	8/21/2014	2/15/2014	8/19/2013
MW-1	228.10	21.78	206.32	209.64	208.82	207.36	208.90	207.20	206.32	207.38	210.45	207.18	209.98	207.37	209.05	207.70	208.02	207.34
MW-3	219.61	13.84	205.77	211.59	210.50	207.96	210.44	207.01	205.77	206.98	211.56	207.44	211.03	207.76	210.24	208.27	209.78	207.77
MW-4	218.28	9.00	209.28	216.54	216.25	210.84	215.55	210.10	209.28	210.63	216.46	209.85	215.86	210.28	216.57	212.27	216.55	210.78
MW-5	217.08	17.76	199.32	207.62	206.53	201.28	206.63	201.26	199.32	200.71	207.75	200.41	206.59	200.08	205.95	200.93	207.27	200.88
MW-6	219.48	20.07	199.41	207.36	205.89	200.18	205.97	200.03	199.41	199.93	207.05	199.48	205.96	199.40	205.64	200.17	206.37	200.13
MW-7	216.85	10.48	206.37	215.76	215.40	208.10	214.85	207.75	206.37	208.02	215.68	206.90	215.61	206.39	215.25	209.84	215.41	208.50
MW-8	220.23	15.76	204.47	213.25	212.51	208.71	212.45	207.25	204.47	207.98	213.73	207.61	213.34	207.78	213.13	209.28	213.01	208.25
MW-9	224.00	14.61	209.39	222.32	221.63	211.98	221.53	210.78	209.39	213.00	222.45	209.63	221.88	210.39	222.19	211.92	224.00	212.73
MW-10	225.41	13.05	212.36	223.43	223.21	213.57	222.68	213.60	212.36	214.15	223.56	212.28	223.18	213.76	223.71	215.79	224.91	214.95
MW-11	227.73	15.44	212.29	221.19	220.19	213.08	220.63	212.58	212.29	213.42	221.30	212.42	220.57	212.82	221.13	214.43	222.86	214.08
MW-13	223.31	17.37	205.94	213.99	213.03	209.66	212.90	207.96	205.94	208.01	214.51	208.58	214.19	209.26	213.23	209.65	210.99	209.44
MW-14	224.77	14.25	210.52	212.06	210.00	207.92	209.99	207.44	210.52	207.52	211.52	207.54	211.14	207.90	209.89	208.26	Repeat	207.77
MW-15	222.96	19.60	203.36	211.58	210.63	207.94	210.37	206.24	203.36	206.51	211.65	207.41	211.08	207.71	210.53	208.31	210.01	207.93
MW-16	217.57	14.83	202.74	211.47	211.07	205.41	210.81	205.17	202.74	205.12	211.82	204.87	211.37	204.21	211.12	205.89	211.33	205.34
MW-17	218.84	13.91	204.93	211.50	210.57	207.91	210.49	206.42	204.93	206.74	211.66	207.41	211.39	207.64	213.46	208.28	210.10	207.76
MW-18	224.00	20.35	203.65	211.58	210.51	207.88	210.28	206.42	203.65	206.51	211.77	207.25	211.11	207.70	210.33	208.30	209.65	207.77
MW-19	224.20	20.94	203.26	211.14	210.30	207.53	210.20	206.22	203.26	206.65	212.00	206.93	210.63	207.18	210.30	208.09	209.96	207.87
MW-20	225.62	23.75	201.87	210.38	209.54	207.34	209.57	206.75	201.87	207.09	211.21	206.94	210.52	207.20	209.64	207.69	208.67	207.21
MW-21	216.60	14.20	202.40	211.18	210.53	204.78	210.45	204.43	202.40	204.26	211.25	203.82	210.60	203.67	210.35	204.69	210.46	204.41
MW-22	216.57	14.14	202.43	211.19	210.12	204.50	210.17	204.25	202.43	204.02	210.98	203.50	210.31	203.31	210.08	204.65	210.37	204.09
MW-23	227.87	21.56	206.31	209.64	208.87	207.32	208.87	207.17	206.31	207.37	210.45	207.19	209.98	207.39	209.01	207.71	208.02	207.34
MW-24	227.49	21.31	206.18	209.71	208.94	207.29	208.89	207.13	206.18	207.34	210.70	207.17	209.87	207.28	209.21	207.54	208.28	207.22
MW-25	220.38	18.15	202.23	212.30	210.98	207.50	210.68	206.05	202.23	206.48	212.28	206.53	211.44	206.86	211.41	207.86	211.43	207.16
MW-26	220.63	14.35	206.28	211.72	209.08	208.09	209.16	207.58	206.28	207.51	210.85	206.88	210.46	207.73	209.72	208.36	208.60	207.63
MW-27	222.80	14.37	208.43	214.49	213.62	209.95	213.78	208.57	208.43	209.02	214.55	208.48	214.05	208.94	213.75	210.35	214.17	208.85
MW-28	223.52	6.62	216.90	219.86	219.47	218.06	219.45	217.40	216.90	217.55	220.32	216.91	219.92	217.37	220.82	218.06	222.92	212.92
MW-29	217.93	15.56	202.37	211.24	210.43	207.60	210.31	206.03	202.37	205.38	211.63	206.93	210.98	207.75	210.91	208.46	209.95	207.74
MW-30	219.26	18.04	201.22	208.19	206.84	201.48	206.75	202.16	201.22	201.68	207.76	200.55	206.88	200.34	206.29	201.19	206.95	201.07
MW-31	216.78	16.28	200.50	207.87	206.76	201.09	206.78	201.34	200.50	200.66	207.80	200.51	206.81	200.42	206.38	201.24	206.97	201.31
MW-100	218.37	14.03	204.34	211.51	210.62	207.82	210.49	206.47	204.34	207.02	211.69	207.06	210.95	207.62	210.51	208.13	210.56	207.67
MW-101	218.54	15.07	203.47	211.48	210.64	207.72	210.46	206.14	203.47	206.84	211.72	206.58	210.92	207.53	210.54	208.07	210.67	207.61
MW-102	217.64	12.38	205.26	211.58	210.62	207.79	210.47	206.76	205.26	207.16	211.66	207.29	210.92	207.56	210.48	208.04	210.68	207.63
MW-103	216.51	10.00	206.51	NM	210.36	207.73	210.16	NM	NM	207.33	211.21	207.28	210.86	207.51	210.24	207.96	210.61	207.50
PZ-1A	220.10	16.59	203.51	211.62	210.68	207.95	210.37	206.30	203.51	207.00	211.78	207.48	207.09	207.64	197.05	208.29	210.55	207.44
PZ-1B	220.05	16.50	203.55	211.69	210.78	207.86	210.40	206.41	203.55	207.13	211.87	207.68	207.13	207.68	197.00	207.99	210.60	207.71

Notes:
ft = feet
AMSL = Above Mean Sea Level
NM = Not Measured
NA = Not Applicable, before well installation

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)																	
		3/25/2013	8/13/2012	3/26/2012	8/30/2011	3/21/2011	8/23/2010	03/22/10	09/01/09	03/16/09	10/10/08	03/10/08	10/15/07	06/25/07	03/05/07	10/02/06	02/27/06	09/26/05	02/21/05
MW-1	228.10	208.62	207.88	207.92	207.92	209.49	207.93	208.91	207.06	206.99	206.85	208.73	206.95	208.16	209.06	207.03	208.92	207.00	207.72
MW-3	219.61	210.16	208.38	211.30	208.58	211.28	208.51	213.42	207.57	209.70	207.21	210.07	207.84	209.10	211.06	207.72	210.42	207.49	208.98
MW-4	218.28	216.00	212.73	217.08	212.69	216.72	211.76	215.95	210.90	216.14	211.58	216.23	210.66	213.47	215.83	210.18	215.68	210.78	215.54
MW-5	217.08	206.53	202.23	208.66	202.51	207.62	201.54	205.87	200.50	205.47	200.29	205.18	201.48	202.73	206.94	199.66	206.22	200.77	204.59
MW-6	219.48	205.93	200.93	208.40	202.03	206.82	199.52	203.97	198.63	204.40	198.50	203.26	199.43	200.27	205.56	197.28	204.17	197.77	202.38
MW-7	216.85	215.05	210.95	NM	210.44	215.53	209.66	214.81	207.16	214.88	206.53	214.44	208.38	209.98	214.99	205.90	214.90	207.60	213.52
MW-8	220.23	212.81	209.75	213.78	209.87	213.83	209.27	212.96	208.51	213.07	210.40	213.23	214.17	210.70	219.18	216.35	218.53	216.38	218.38
MW-9	224.00	221.58	212.47	223.05	212.00	222.57	211.85	218.74	207.74	220.89	207.55	216.65	210.89	209.01	214.77	207.14	211.33	207.04	210.34
MW-10	225.41	223.09	217.36	224.16	217.52	223.86	216.80	222.96	214.96	223.76	214.65	222.40	222.11	218.80	223.28	211.89	221.36	212.45	220.93
MW-11	227.73	220.62	215.99	220.86	215.79	221.28	216.64	219.99	215.41	219.97	217.58	219.73	219.48	221.01	221.55	217.68	220.43	215.46	218.89
MW-13	223.31	213.23	210.19	213.28	210.14	214.39	209.94	210.11	209.00	212.85	208.16	209.96	207.44	210.59	214.00	208.71	212.67	208.61	211.51
MW-14	224.77	209.61	208.42	NM	208.50	210.86	208.59	210.15	207.62	209.09	207.30	209.77	207.65	209.06	210.47	207.72	210.09	207.48	208.58
MW-15	222.96	210.41	208.58	211.41	208.55	211.41	208.48	210.49	207.55	209.83	207.26	210.15	207.93	209.09	211.15	207.65	210.50	207.47	209.08
MW-16	217.57	210.99	206.47	212.46	206.65	212.07	205.98	210.52	204.90	210.56	204.68	210.18	206.15	207.21	211.47	204.42	210.52	204.90	209.21
MW-17	218.84	210.34	208.48	211.41	208.53	211.31	208.40	210.44	207.46	209.72	207.07	210.03	207.76	209.02	211.10	207.64	210.49	207.41	209.07
MW-18	224.00	210.30	208.51	211.28	208.53	211.34	208.50	210.45	207.56	209.80	207.30	210.19	207.96	209.09	211.06	207.64	210.15	NA	NA
MW-19	224.20	210.00	208.23	211.06	208.10	211.34	208.08	210.45	207.06	210.79	207.07	211.14	208.85	208.75	212.02	207.17	210.45	NA	NA
MW-20	225.62	209.31	207.83	210.25	208.08	210.47	207.87	209.59	206.92	208.85	206.90	209.41	207.31	208.38	210.01	206.99	209.47	NA	NA
MW-21	216.60	210.15	205.51	NM	205.95	211.72	205.46	210.14	204.33	210.17	204.45	209.78	205.79	206.69	210.89	203.92	209.86	NA	NA
MW-22	216.57	209.92	205.15	211.69	205.64	211.55	205.16	209.87	204.04	209.98	204.19	209.53	205.52	206.41	NA	NA	NA	NA	NA
MW-23	227.87	208.61	207.90	209.47	207.92	209.53	207.96	208.92	207.09	207.98	206.85	208.73	206.96	208.17	NA	NA	NA	NA	NA
MW-24	227.49	208.79	207.83	214.64	208.04	209.87	207.87	209.04	206.99	208.18	206.88	208.88	207.11	208.22	NA	NA	NA	NA	NA
MW-25	220.38	211.40	208.40	212.52	208.45	212.32	207.93	211.45	207.03	214.23	207.80	211.51	209.10	209.33	NA	NA	NA	NA	NA
MW-26	220.63	209.47	208.26	210.51	208.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	213.67	211.62	211.29	209.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	220.00	217.72	220.65	217.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	210.35	208.49	210.80	206.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	206.42	202.22	208.70	203.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	206.83	202.47	208.89	202.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	210.28	208.39	211.22	208.48	211.50	208.31	210.36	207.37	209.65	207.15	209.93	207.71	208.89	211.07	208.14	NA	NA	NA
MW-101	218.54	210.35	208.29	211.29	208.41	211.50	208.20	210.35	207.25	209.48	207.05	209.93	207.64	208.82	211.10	207.72	NA	NA	NA
MW-102	217.64	210.33	208.32	211.25	208.34	211.42	208.14	210.24	207.18	209.64	206.77	209.78	207.50	208.71	211.60	206.54	NA	NA	NA
MW-103	216.51	210.05	208.09	210.95	208.06	210.99	207.92	209.80	207.01	209.32	206.61	209.31	207.15	208.40	210.77	207.21	NA	NA	NA
PZ-1A	220.10	210.30	211.43	211.43	208.58	211.39	NM	213.86	208.64	209.90	208.20	210.29	208.00	209.17	211.05	207.74	218.70	NA	NA
PZ-1B	220.05	210.37	211.46	211.46	208.66	211.17	NM	210.93	207.40	209.55	207.81	210.19	207.95	209.65	211.10	198.49	210.64	NA	NA

Notes:
ft = feet
AMSL = Above Mean Sea Lev
NM = Not Measured
NA = Not Applicable, before we

Table 3
Current and Historical Groundwater Elevations

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)									
		10/04/04	05/10/04	02/23/04	11/17/03	08/25/03	05/27/03	02/10/03	11/07/02	07/16/02	02/26/02
MW-1	228.10	206.75	208.10	208.34	206.21	206.99	208.75	207.64	206.17	207.40	206.55
MW-3	219.61	207.32	209.04	209.96	206.34	207.00	209.57	209.20	206.04	207.67	207.49
MW-4	218.28	212.63	214.85	216.04	211.68	209.86	214.41	214.52	209.65	211.38	213.88
MW-5	217.08	201.35	204.23	206.58	200.48	199.92	204.78	205.51	199.87	201.17	203.34
MW-6	219.48	198.12	202.07	205.00	197.44	197.46	202.79	204.22	197.44	199.17	200.96
MW-7	216.85	209.17	213.13	214.84	206.67	206.88	212.73	213.52	205.46	207.00	212.29
MW-8	220.23	217.42	218.22	218.99	218.52	216.93	218.19	218.82	217.05	217.26	219.53
MW-9	224.00	207.80	210.12	210.83	207.20	207.37	209.57	209.16	206.36	207.80	208.07
MW-10	225.41	214.05	220.39	222.30	214.16	214.44	220.34	220.23	209.61	215.77	221.83
MW-11	227.73	213.83	219.37	221.25	215.53	216.84	220.23	221.03	211.85	216.85	219.85
MW-13	223.31	209.34	211.01	212.22	205.31	208.43	211.82	211.30	207.84	209.08	210.50
MW-14	224.77	207.24	208.89	209.51	206.53	207.35	209.62	208.66	206.43	207.87	207.12
MW-15	222.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	217.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	218.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	224.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	224.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	225.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	216.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-22	216.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23	227.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	227.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25	220.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-26	220.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-101	218.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-102	217.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-103	216.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1A	220.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1B	220.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
ft = feet
AMSL = Above Mean Sea Lev
NM = Not Measured
NA = Not Applicable, before we

Table 4
Hydraulic Gradient Calculations
Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Horizontal Gradient Locations	Aquifer Zone Screened	Elevation (ft AMSL)	Elevation Difference	Horizontal Distance	Gradient
MW-10 to MW-11					
MW-10	Perched	212.36	0.07	500.9	1.40E-04
MW-11		212.29			
MW-10 to MW-8					
MW-10	Perched	212.36	7.89	744.9	1.06E-02
MW-8		204.47			
MW-10 to MW-4					
MW-10	Perched	212.36	3.08	1205.8	2.55E-03
MW-4		209.28			
MW-28 to MW-8					
MW-28	Perched	216.90	12.43	289.4	4.30E-02
MW-8		204.47			
MW-16 to MW-6					
MW-16	Gravel	202.74	3.33	463.6	7.18E-03
MW-6		199.41			
MW-16 to MW-31					
MW-16	Gravel	202.74	2.24	661.4	3.39E-03
MW-31		200.50			
MW-23 to MW-24					
MW-23	Gravel	206.31	0.13	321.5	4.04E-04
MW-24		206.18			
MW-25 to MW-23					
MW-25	Gravel	202.23	-4.08	1320.8	-3.09E-03
MW-23		206.31			

Table 5
Detection Summary

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Analyte	Minimum Applicable Criteria*	Detection Frequency	Minimum Criteria Exceedance Frequency	Maximum Detected Concentration	Location of Maximum Detection	Minimum Detected Concentration
Volatile Organics (µg/L)						
Carbon tetrachloride	0.41	9/31	9/31	1700	MW-20	0.42 J
Chloroform	0.19	12/31	12/31	160	MW-20	0.30 J
cis-1,2-Dichloroethene	3.6	6/31	1/31	5.8	MW-30	0.54 J
Dichlorobromomethane	100	1/31	0/31	0.47 J	MW-14	0.47 J
Tetrachloroethene (PCE)	4.1	4/31	2/31	9.3 H J	MW-18	0.78 J
trans-1,2-Dichloroethene	36	1/31	0/31	0.53 J	MW-30	0.53J
Trichloroethene (TCE)	0.28	13/31	13/31	190 H	MW-20	0.31 J

Notes:

µg/L = micrograms per Liter

mg/L = milligrams per Liter

J = Analyte concentration is an estimate. Analyte was detected below Method Reporting Limit, but above the Method Detection Limit

J = If detection is above the Reporting Limit, QC problems were found in data validation

H = Analyzed past 14 day holding time

B = Analyte was detected in the Method Blank

* = Minimum Applicable Criteria are the minimium criteria presented in Table 7

** = Method Detection Limits are above the minimum applicable screening criteria. Additional concentrations may exceed minimum applicable screening criteria

Table 5
Detection Summary

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Analyte	Minimum Applicable Criteria*	Detection Frequency	Minimum Criteria Exceedance Frequency	Maximum Detected Concentration	Location of Maximum Detection	Minimum Detected Concentration
Metals (mg/L)						
Aluminum	0.05	11/14	10/14	0.76	MW-24	0.049 J
Antimony	0.001	4/14	0/14	0.00022 J B	MW-14	0.00015 J B
Arsenic	0.000038	14/14	14/14	0.18	MW-16	0.00053 J
Barium	0.38	14/14	0/14	0.19	MW-16	0.0044
Beryllium	0.003	1 /14	0/14	0.00019 J	MW-16	0.00019 J
Cadmium	0.0009	1 /14	0/14	0.00007 J	MW-13	0.00007 J
Calcium	--	14 /14	--	42	MW-16	13
Chromium	0.00035	14 /14	12/14	0.0028	MW-24	0.00018 J
Cobalt	0.0006	14/14	4/14	0.002	MW-24	0.000069 J
Copper	0.08	11/14	0/14	0.0022	MW-23	0.00065 J
Iron	0.3	13/14	7/14	120	MW-16	0.067 J
Lead	0.015	10/14	0/14	0.00037 J	MW-24	0.000041 J
Magnesium	--	14/14	--	19	MW-4, MW-18	5.8
Manganese	0.043	14/14	3/14	1.2	MW-20	0.0044
Nickel	0.022	14/14	0/14	0.0064	MW-13	0.00029 J
Potassium	--	14/14	--	1.4 J	MW-4, MW-16	0.46 J
Silver	0.0094	1/14	0 /14	0.00034 J	MW-4	0.00034 J
Sodium	--	14/14	--	23	MW-22	8.0
Thallium	0.00002	1/14	1/14	0.000029 J	MW-14	0.000029 J
Vanadium	0.0086	14/14	7 /14	0.012	MW-20	0.0023 J
Zinc	0.6	14/14	0 /14	0.0091	MW-24	0.0023 J

Table 6
Analytical Results for Detected Constituents - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Volatile Organic Concentrations							
			Benzene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Naphthalene	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	Trichloroethene (TCE)
MW-3	MW3-082321	8/23/2021	0.24 U	0.30 U	0.30 J	0.35 U	0.93 U	0.41 U	0.39 U	**0.60 J**
MW-4	MW4-082321	8/23/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-5	MW5-082521	8/25/2021	0.24 U	0.30 U	**1.8**	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-6	MW6-082521	8/25/2021	0.24 U	0.30 U	0.26 U	**0.69 J**	0.93 U	0.41 U	0.39 U	0.26 U
MW-7	MW-7-082621	8/26/2021	0.24 U J	0.30 U	0.26 U J	0.35 U J	0.93 U J	0.41 U	0.39 U J	0.26 U J
MW-8	MW8-082421	8/24/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-9	MW9-082421	8/24/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-10	MW10-082421	8/24/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-11	MW11-082521	8/25/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-13	MW13-082321	8/23/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-14	MW14-082321	8/23/2021	0.24 U	0.30 U	**11**	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-15	MW15-082621	8/26/2021	0.24 U J	**9.9 H J**	**0.99 J**	0.35 U J	0.93 U J	0.41 U	0.39 U J	**130 J**
MW-16	MW16-082621	8/26/2021	0.24 U J	0.30 U	0.26 U J	0.35 U J	0.93 U J	0.41 U	0.39 U J	0.26 U J
MW-17	MW17-082321	8/23/2021	0.24 U	**0.62 J**	**0.46 J**	**1.5**	0.93 U	0.41 U	0.39 U	**44**
MW-18	MW18-082621	8/26/2021	0.24 U J	**140 H J**	**18 J**	0.35 U J	0.93 U J	**9.3 H J**	0.39 U J	**94 J**
MW-19	MW19-082421	8/24/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-20	MW20-082421	8/24/2021	0.24 U	**1700 H**	**160 H**	**0.57 J**	0.93 U	**8.1**	0.39 U	**190 H**
	MW20-082421-DUP	8/24/2021	0.24 U	**1700 H**	**160 H**	**0.56 J**	0.93 U	**8.6**	0.39 U	**200 H**
MW-22	MW22-082421	8/24/2021	0.24 U	**14**	**2.5**	**2.2**	0.93 U	**1.1**	0.46 J	**7.8**
MW-23	MW23-082321	8/23/2021	0.24 U	**0.42 J**	**1.7**	0.35 U	0.93 U	0.41 U	0.39 U	**0.31 J**
MW-24	MW24-082521	8/25/2021	0.24 U	**250**	**23**	0.35 U	0.93 U	**0.78 J**	0.39 U	**88**
MW-25	MW25-082421	8/24/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-26	MW26-082321	8/23/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-27	MW27-082621	8/26/2021	0.24 U J	**32 H J**	**2.4 J**	0.35 U J	0.93 U J	0.41 U	0.39 U J	**0.59 J**
MW-28	MW28-082621	8/26/2021	0.24 U J	0.30 U	0.26 U J	0.35 U J	0.93 U J	0.41 U	0.39 U J	0.26 U J
	MW28-082621 DUP	8/26/2021	0.24 U J	0.30 U	0.26 U J	0.35 U J	0.93 U J	0.41 U	0.39 U J	0.26 U J
MW-29	MW29-082321	8/23/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-30	MW30-082521	8/25/2021	0.24 U	0.30 U	0.26 U	**5.8**	0.93 U	0.41 U	0.53 J	0.26 U
MW-31	MW31-082521	8/25/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	0.26 U
MW-100	MW100-082521	8/25/2021	0.24 U	**1.0**	**0.40 J**	**0.54 J**	0.93 U	0.41 U	0.39 U	**80**
MW-101	MW101-082521	8/25/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	**1.8**
MW-102	MW102-082521	8/25/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	**6.5**
MW-103	MW103-082521	8/25/2021	0.24 U	0.30 U	0.26 U	0.35 U	0.93 U	0.41 U	0.39 U	**0.57 J**
Minimum Applicable Screening Criteria			**0.39**	**0.41**	**0.19**	**3.6**	**0.14**	**4.1**	**36**	**0.28**

Notes:
µg/L = Micrograms per liter
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method Reporting Limit, but above the Method Detection Limit
Bold indicates analyte was detected above the method detection limit
Shading indicates result exceeds the minimum applicable screening criteria (See Table 7).

Table 7
Applicable Screening Criteria

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Analyte	Minimum Criteria	Oregon - Groundwater MMLs[1]	Oregon - Hot Spot Tables[2]	Oregon - DEQ RBCs [3]	EPA - Primary Drinking Water MCLs[4]	EPA - Secondary Drinking Water MCLs[4]	EPA - Regional Screening Levels[5]
Volatile Organics (µg/L)							
1,1,1,2-Tetrachloroethane	0.57	---	---	---	---	---	0.57
1,1,1-Trichloroethane	200	200	200	9,100	200	---	800
1,1,2,2-Tetrachloroethane	0.076	---	---	---	---	---	0.076
1,1,2-Trichloroethane	0.041	---	5	0.23	5	---	0.041
1,1-Dichloroethane	2.3	---	---	2.3	---	---	2.7
1,1-Dichloroethene	7	7	7	340	7	---	28
1,1-Dichloropropene	---	---	---	---	---	---	---
1,2,3-Trichlorobenzene	0.70	---	---	---	---	---	0.70
1,2,3-Trichloropropane	0.00075	---	---	---	---	---	0.00075
1,2,4-Trichlorobenzene	0.40	---	70	---	70	---	0.40
1,2,4-Trimethylbenzene	1.5	---	---	54	---	---	1.5
1,2-Dibromo-3-chloropropane	0.00033	---	0.2	---	0.2	---	0.00033
1,2-Dichlorobenzene	30	---	600	370	600	---	30
1,2-Dichloroethane (EDC)	0.14	5	5	0.14	5	---	0.17
1,2-Dichloropropane	0.44	---	5	---	5	---	0.44
1,3,5-Trimethylbenzene	12	---	---	50	---	---	12
1,3-Dichlorobenzene	---	---	---	---	---	---	---
1,3-Dichloropropane	37	---	---	---	---	---	37
1,4-Dichlorobenzene	0.42	75	75	0.42	75	---	0.48
2,2-Dichloropropane	---	---	---	---	---	---	---
2-Chlorotoluene	25	---	---	---	---	---	25
4-Chlorotoluene	24	---	---	---	---	---	24
4-Isopropyltoluene	---	---	---	---	---	---	---
Benzene	0.39	5	5	0.39	5	---	0.45
Bromobenzene	6.2	---	---	---	---	---	6.2
Bromoform (THM)	2.7	100 (total THM)	80 (total THM)	2.7	80 (total THM)	---	9.2
Bromomethane	0.75	---	---	8.7	---	---	0.75
Carbon Tetrachloride	0.41	5	5	0.41	5	---	0.45
Chlorobenzene	7.8	---	100	91	100	---	7.8
Chlorobromomethane	---	---	---	---	---	---	---
Chlorodibromomethane (THM)	100	100 (total THM)	---	0.14	---	---	---
Chloroethane	21,000	---	---	21,000	---	---	--
Chloroform (THM)	0.19	100 (total THM)	80 (total THM)	0.19	80 (total THM)	---	0.22
Chloromethane	19	---	---	190	---	---	19
cis-1,2-Dichloroethene	3.6	---	70	73	70	---	3.6
cis-1,3-Dichloropropene	--	---	---	---	---	---	--
Dibromomethane	0.80	---	---	---	---	---	0.80
Dichlorobromomethane (THM)	100	100 (total THM)	---	---	---	---	---
Dichlorodifluoromethane	20	---	---	---	---	---	20
Ethylbenzene	1.5	---	700	1.4	700	---	1.5
Ethylene Dibromide	0.00005	---	0.00005	---	0.00005	---	---
Hexachlorobutadiene	0.30	---	---	---	---	---	0.30
Isopropylbenzene (cumene)	45	---	---	680	---	---	45
Methylene chloride	5	---	5	---	5	---	11
m,p-Xylene	19	---	---	---	---	---	19
Methyl tert-butyl ether (MTBE)	12	---	---	12	---	---	14
Naphthalene	0.14	---	---	0.14	---	---	0.17
n-Butylbenzene	100	---	---	---	---	---	100
n-Propylbenzene	--	---	---	---	---	---	--
o-Xylene	19	---	---	---	---	---	19
sec-Butylbenzene	200	---	---	---	---	---	200
Styrene	100	---	100	1,600	100	---	120
tert-Butylbenzene	69	---	---	---	---	---	69
Tetrachloroethene (PCE)	4.1	---	5	11	5	---	4.1
Toluene	110	---	1,000	2,300	1,000	---	110
trans-1,2-Dichloroethene	36	---	100	110	100	---	36
trans-1,3-Dichloropropene	--	---	---	---	---	---	--
Trichloroethene (TCE)	0.28	5	5	0.43	5	---	0.28
Trichlorofluoromethane	110	---	---	1,300	---	---	110
Vinyl chloride	0.019	2	2	0.025	2	---	0.019

Notes:

--- = No criteria available

µg/L = micrograms per liter

THM = Trihalomethanes, including a group of disinfection byproducts (chloroform, bromodichloromethane, dibromochloromethane, & bromoform).

[1] The Oregon Groundwater Maximum Measurement Levels (MMLs) are provided in Oregon Administrative Rules (OAR) 340-40-020, last updated on November 14, 1997.

2 The Oregon Hot Spot Tables are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are revised to reflect Oregon DEQ hierarchy (MCL/MML, RBC, then EPA Regional Screening Levels for Regions 3, 6 and 9). Hot Spot values were modified in 2015 to reflect updates to EPA Regional Screening Levels and subsequently revised Oregon RBDM values.

3 The Oregon Petroleum Risk-Based Concentrations are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are from Appendix A using Residential Groundwater - Ingestion & Inhalation from Tapwater last updated on November, 2015.

4 The EPA Primary and Secondary Maximum Contaminant Levels (MCLs) are provided by the U.S. Environmental Protection Agency, last updated on June 2013
[see http://www.epa.gov/safewater/contaminants/index.html].

5 The EPA Regional Risk-Based Screening Values for Region 3, 6 and 9, provided by the U.S. Environmental Protection Agency, last updated on November 2017 [see http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm]. Screening levels used are via the pathway of exposure to tapwater.

Table 7
Applicable Screening Criteria

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Analyte	Oregon Groundwater MMLs[1]	Oregon Hot Spot Tables[2]	Oregon DEQ RBCs [3]	EPA Primary Drinking Water MCLs[4]	EPA Secondary Drinking Water MCLs[4]	EPA Regional Screening Levels[5]
Aluminum (Al)	---	---	---	---	0.05	2
Antimony (Sb)	---	0.006	---	0.006	---	0.001
Arsenic (As)	0.05	0.010	0.000038	0.010	---	0.000052
Barium (Ba)	1.0	2	4	2	---	0.38
Beryllium (Be)	---	0.004	0.040	0.004	---	0.003
Cadmium (Cd)	0.010	0.005	0.020	0.005	---	0.0009
Calcium (Ca)	---	---	---	---	---	---
Chromium (Cr)	0.05	0.1	---	0.1	---	0.000035
Cobalt (Co)	---	---	---	---	---	0.0006
Copper (Cu)	1.0	1.0	1.5	1.3	1.0	0.08
Iron (Fe)	0.3	0.3	---	---	0.3	1.4
Lead (Pb)	0.05	0.015	0.015	0.015	---	---
Magnesium (Mg)	---	---	---	---	---	---
Manganese (Mn)	0.05	0.05	0.48	---	0.05	0.043
Mercury (Hg)	0.002	0.002	0.006	0.002	---	0.000063
Nickel (Ni)	---	---	0.4	---	---	0.022
Potassium (K)	---	---	---	---	---	---
Selenium (Se)	0.01	0.05	---	0.05	---	0.010
Silver (Ag)	0.05	0.10	0.1	---	0.10	0.0094
Sodium (Na)	---	---	---	---	---	---
Thallium (Tl)	---	0.002	---	0.002	---	0.00002
Vanadium (V)	---	---	---	---	---	0.0086
Zinc (Zn)	5.0	5	---	---	5	0.6

Notes:
--- = No criteria available

Value presented in milligrams per liter (mg/L)

1 The Oregon Groundwater Maximum Measurement Levels (MMLs) are provided in Oregon Administrative Rules (OAR) 340-40-020, last updated on November 14, 1997.

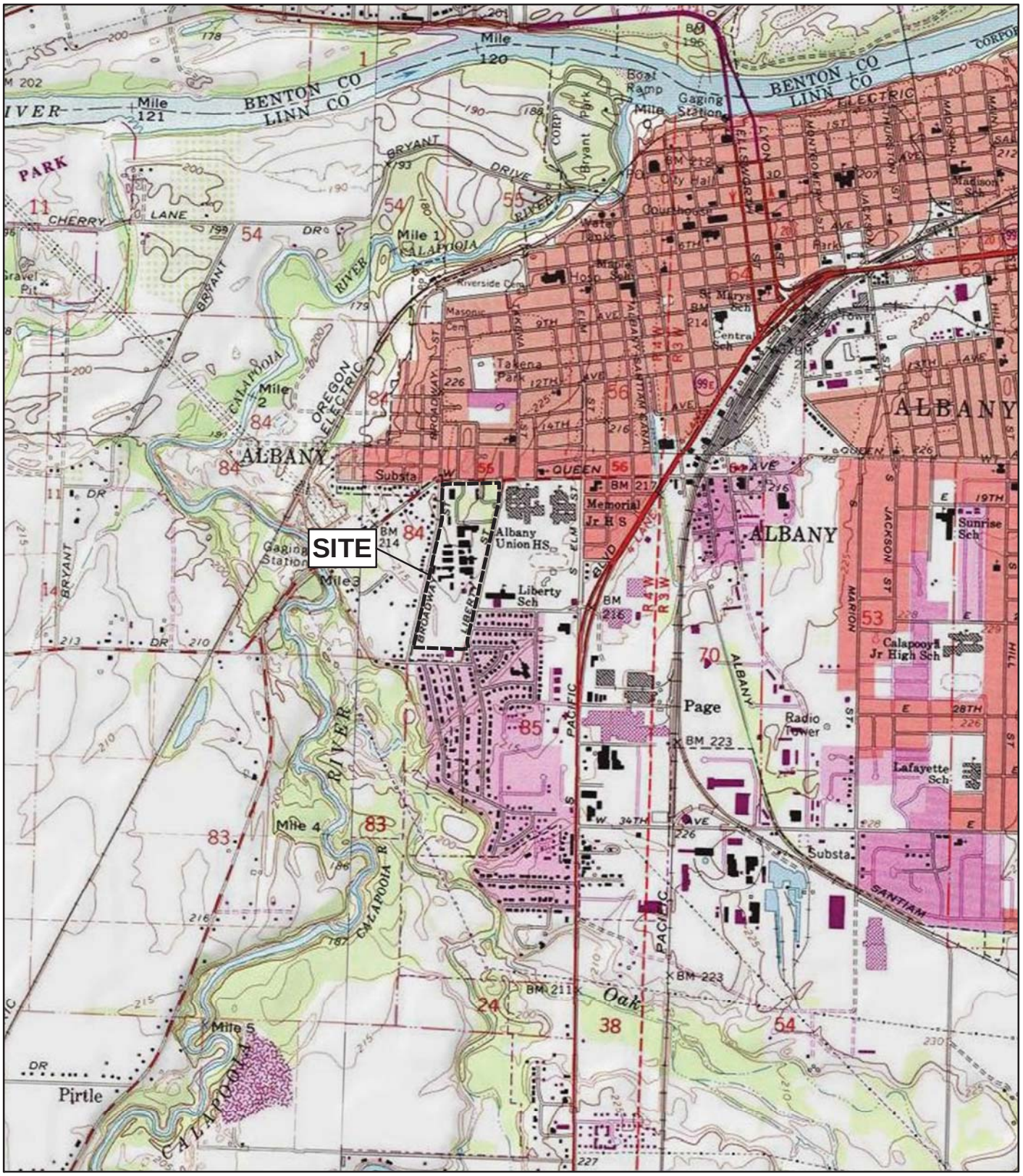
2 The Oregon Hot Spot Tables are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are revised to reflect Oregon DEQ hierarchy (MCL/MML, RBC, then EPA Regional Screening Levels for Regions 3, 6 and 9). Hot Spot values were modified in 2012 to reflect updates to EPA Regional Screening Levels and subsequently revised Oregon RBDM values.

3 The Oregon Petroleum Risk-Based Concentrations are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are from Appendix A using Residential Groundwater - Ingestion & Inhalation from Tap water last updated on November 2015.

4 The EPA Primary and Secondary Maximum Contaminant Levels (MCLs) are provided by the U.S. Environmental Protection Agency, last updated on June 2013 [see http://www.epa.gov/safewater/contaminants/index.html].

5 The EPA Regional Risk-Based Screening Values for Region 3, 6 and 9, provided by the U.S. Environmental Protection Agency, last updated on May 2014 [see http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm]. Screening levels used are via the pathway of exposure to tap water.

Figures



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

1,000 0 1,000 2,000

SCALE IN FEET

SITE VICINITY

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

AUGUST 2021

FIGURE 1

K:\25697357_NETL_Albany\MXD\2Q15\Fig 1 Site Vicinity.mxd



Sources: NAIP, 2021.
Albany GIS, 2010.

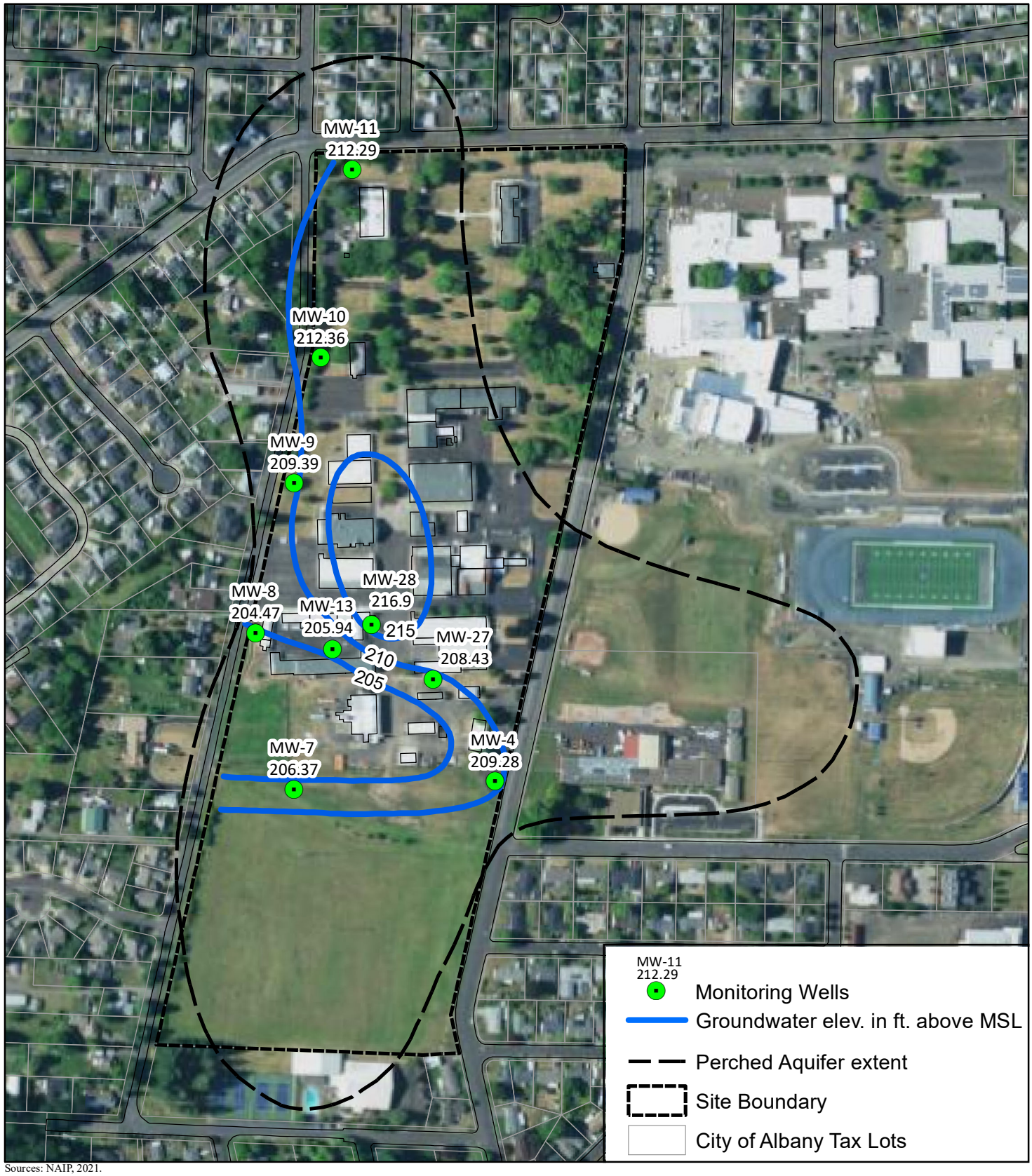
150 75 0 150 300
Feet

SITE MAP

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 2



Sources: NAIP, 2021.
Albany GIS, 2010.

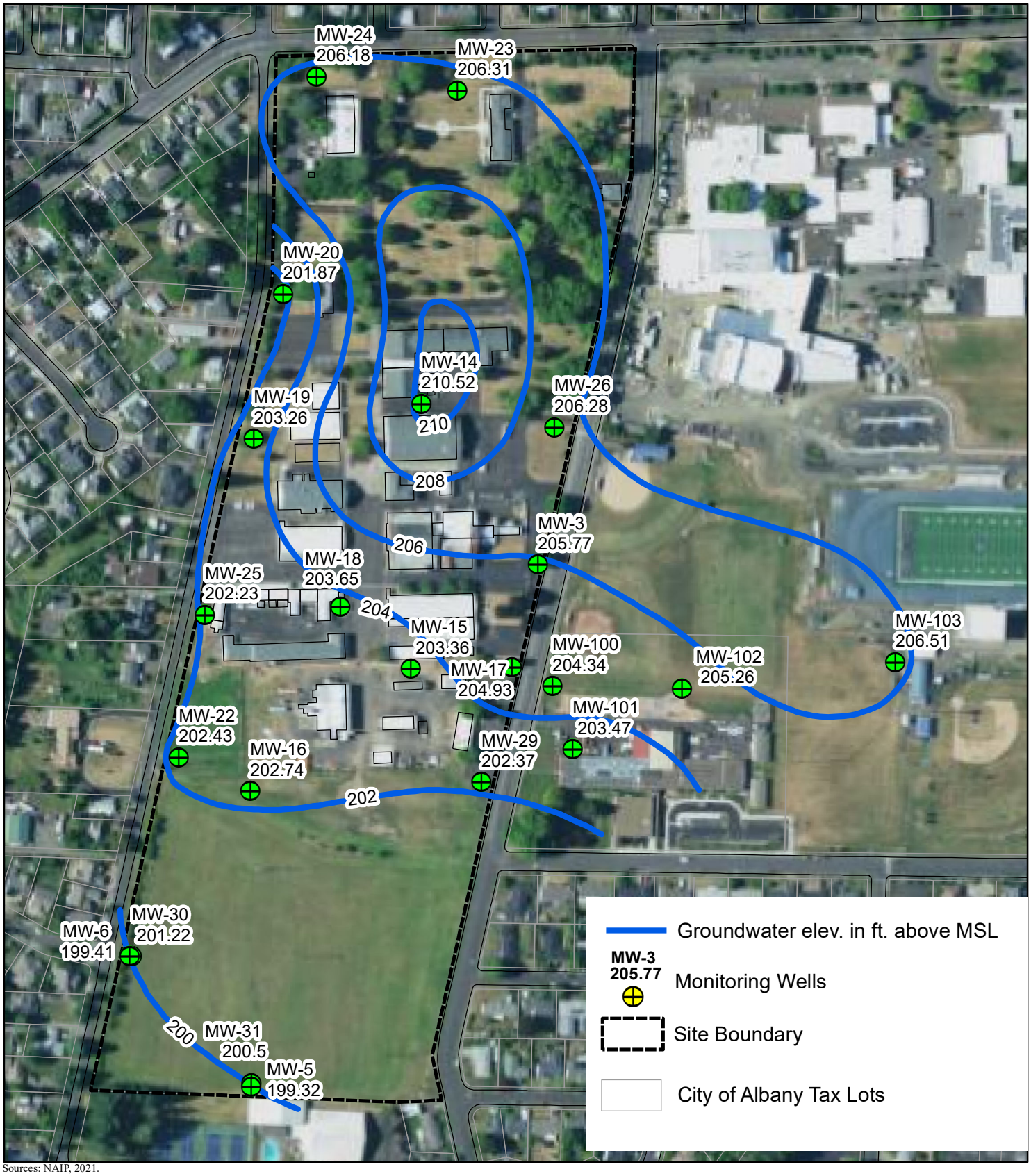
150 75 0 150 300
Feet

GROUNDWATER ELEVATION CONTOURS IN THE PERCHED AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 3



Sources: NAIP, 2021.
Albany GIS, 2010.

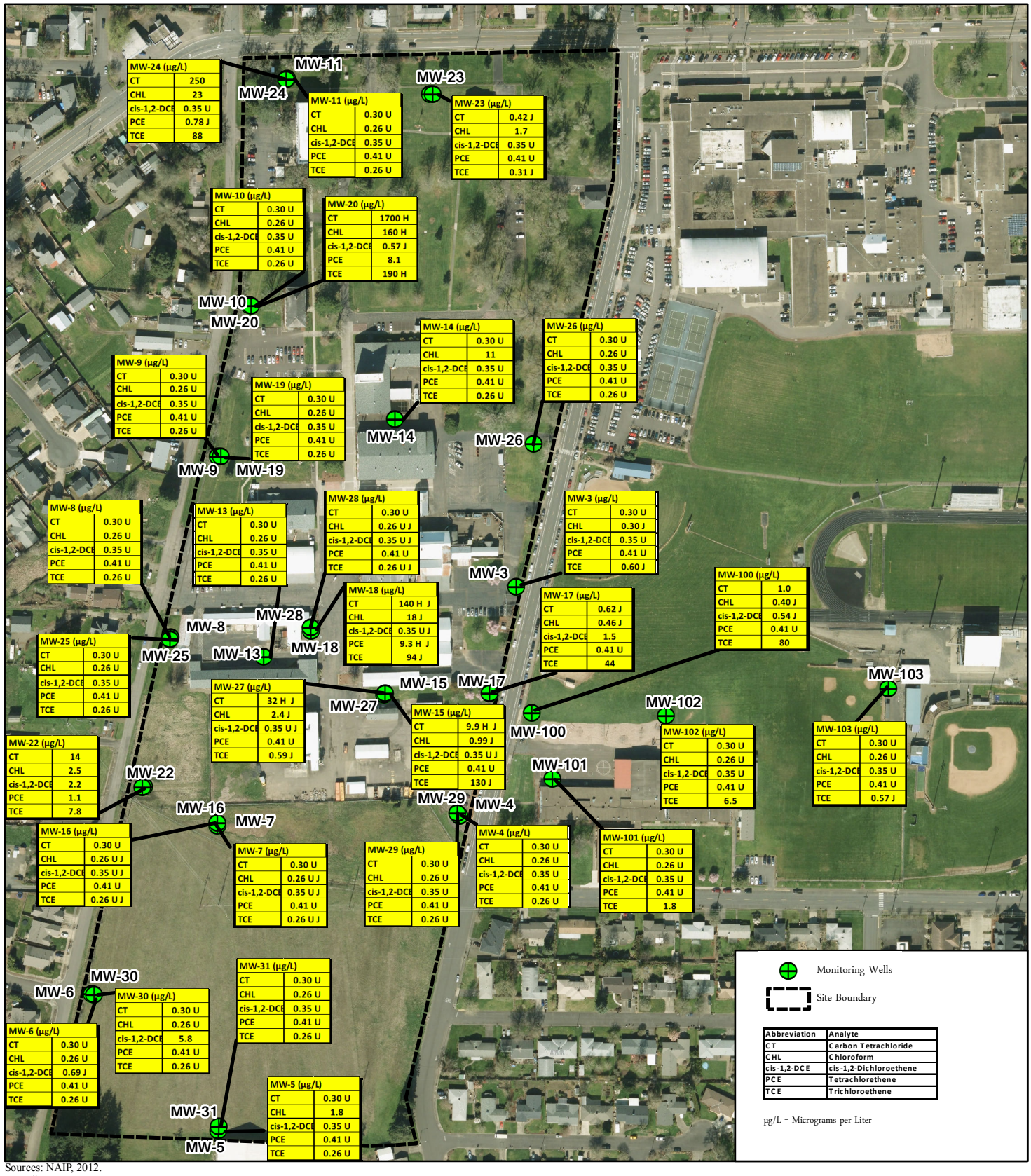
200 100 0 200 400
Feet

GROUNDWATER ELEVATION CONTOURS IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 4



Sources: NAIP, 2012.
Albany GIS, 2007.

GROUNDWATER ANALYTICAL RESULTS AUGUST 2021

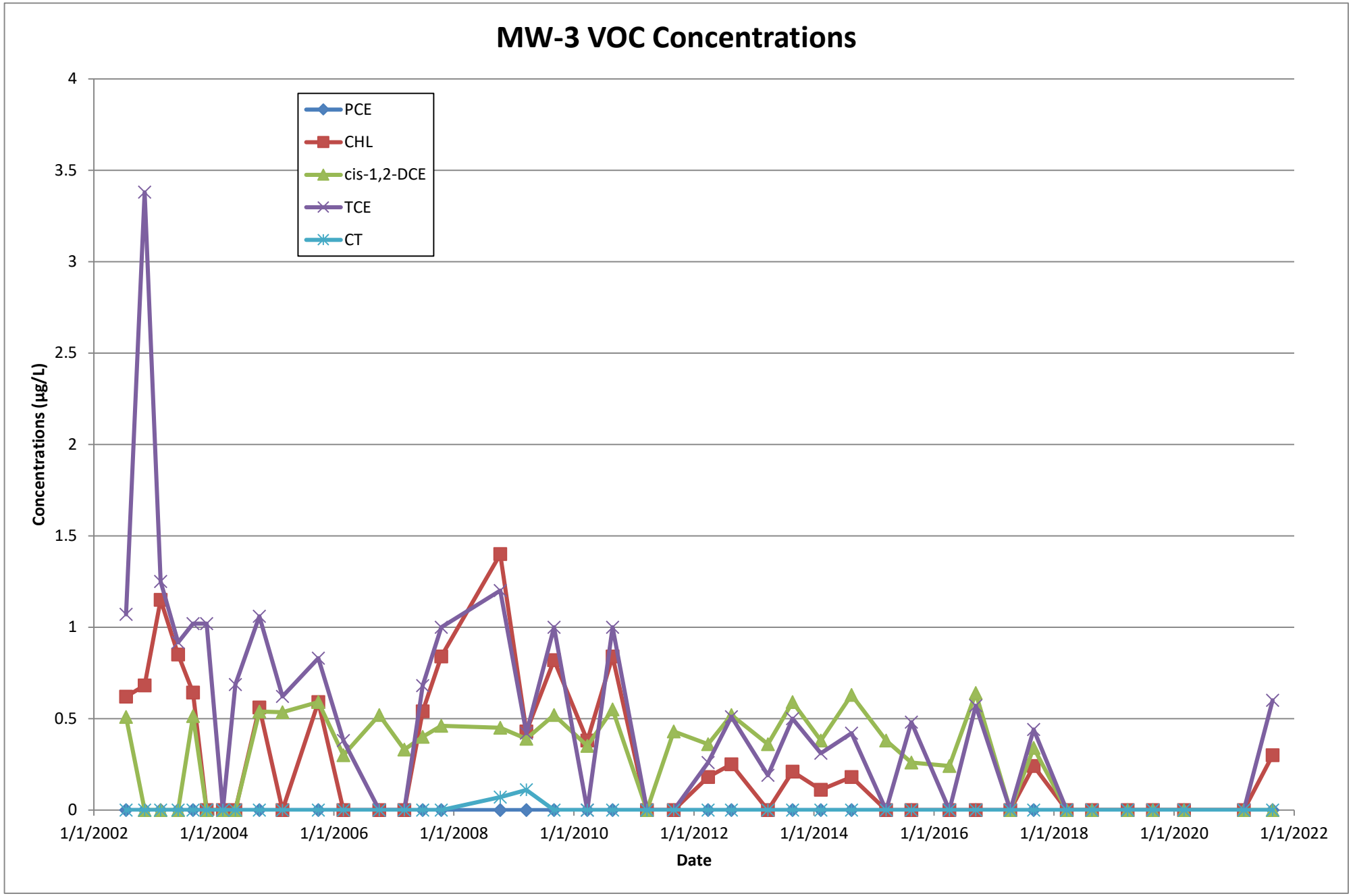
NETL ALBANY

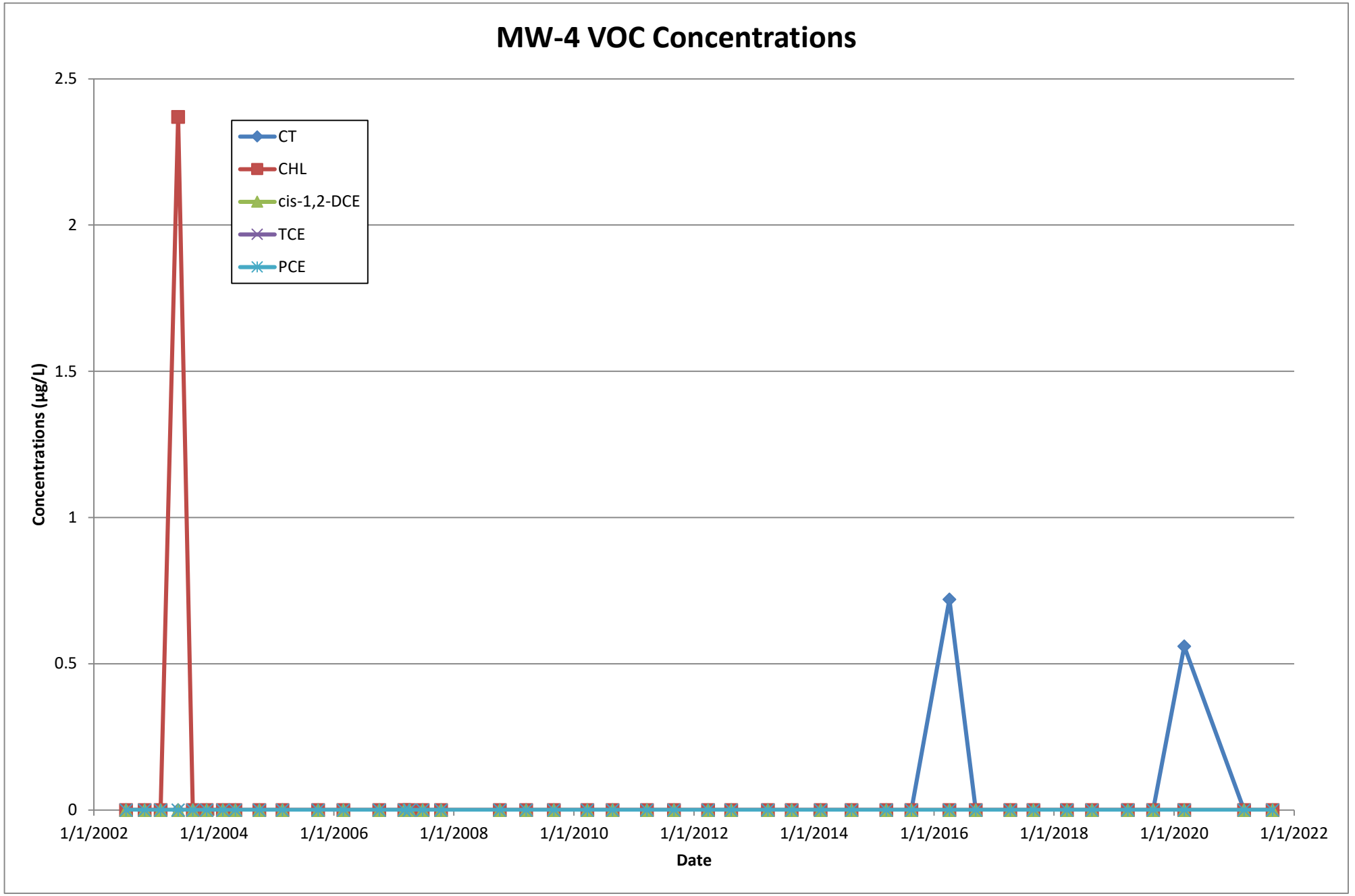
GROUNDWATER SAMPLING

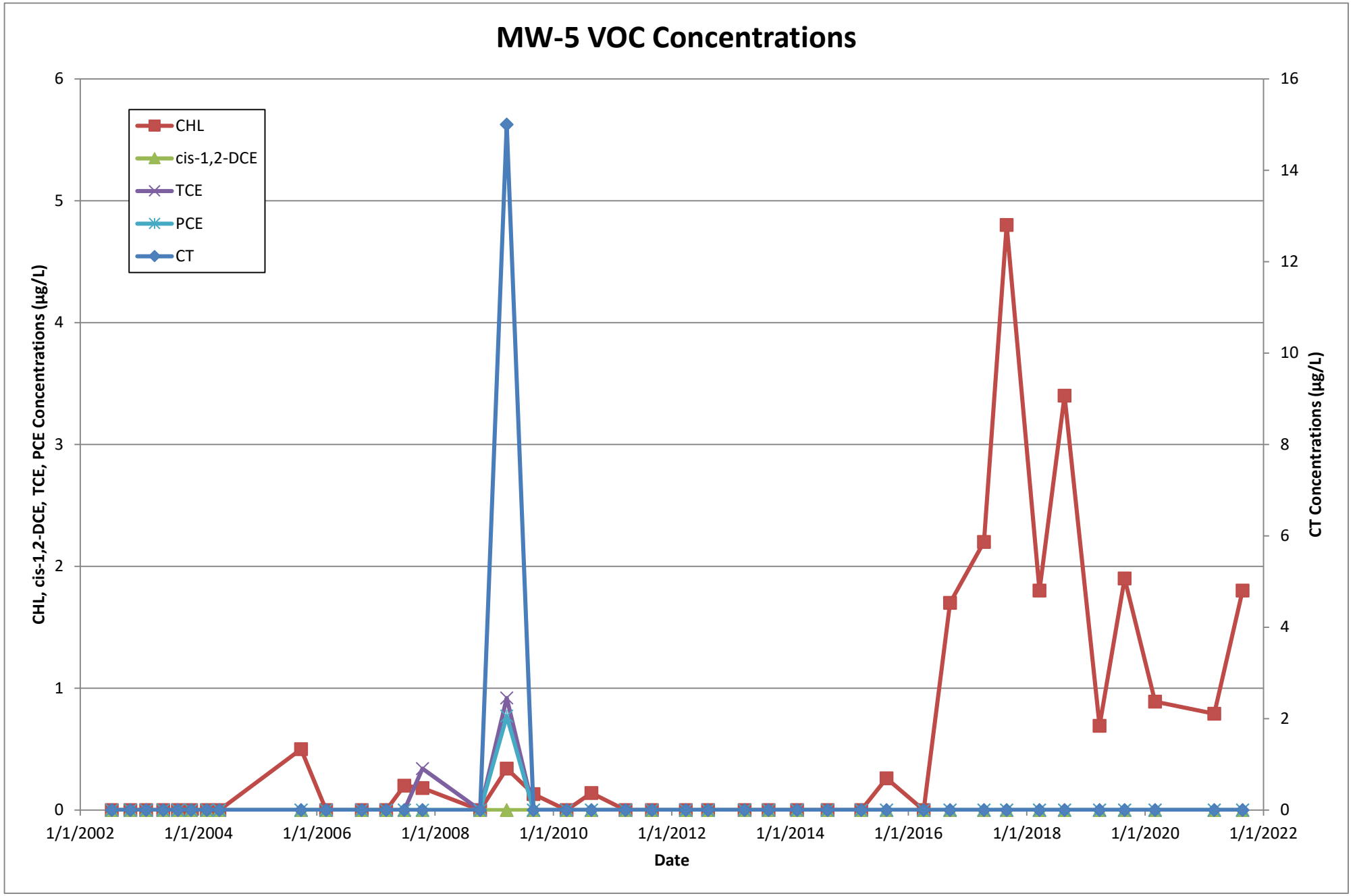
ALBANY, OREGON

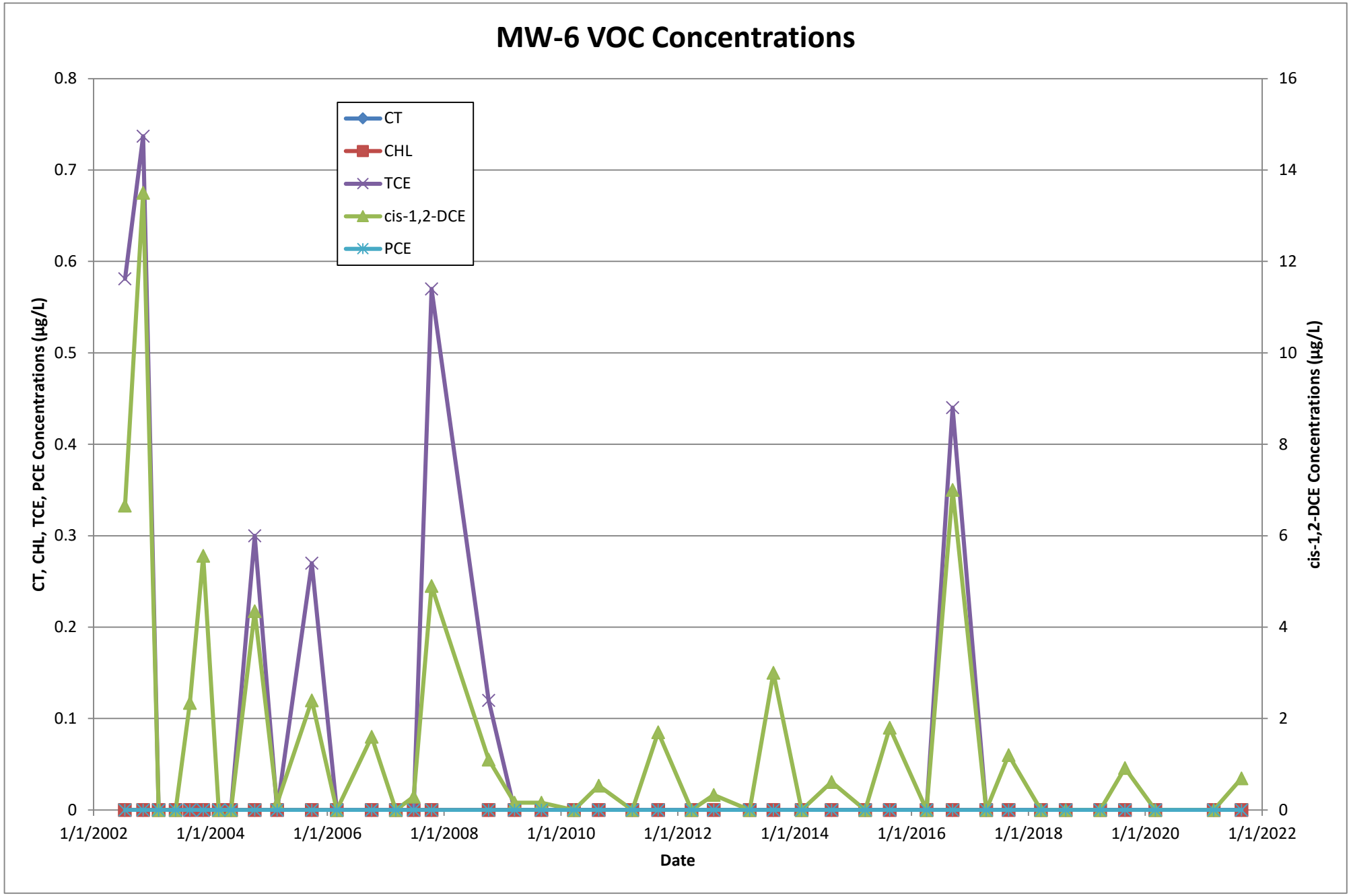
FIGURE 5

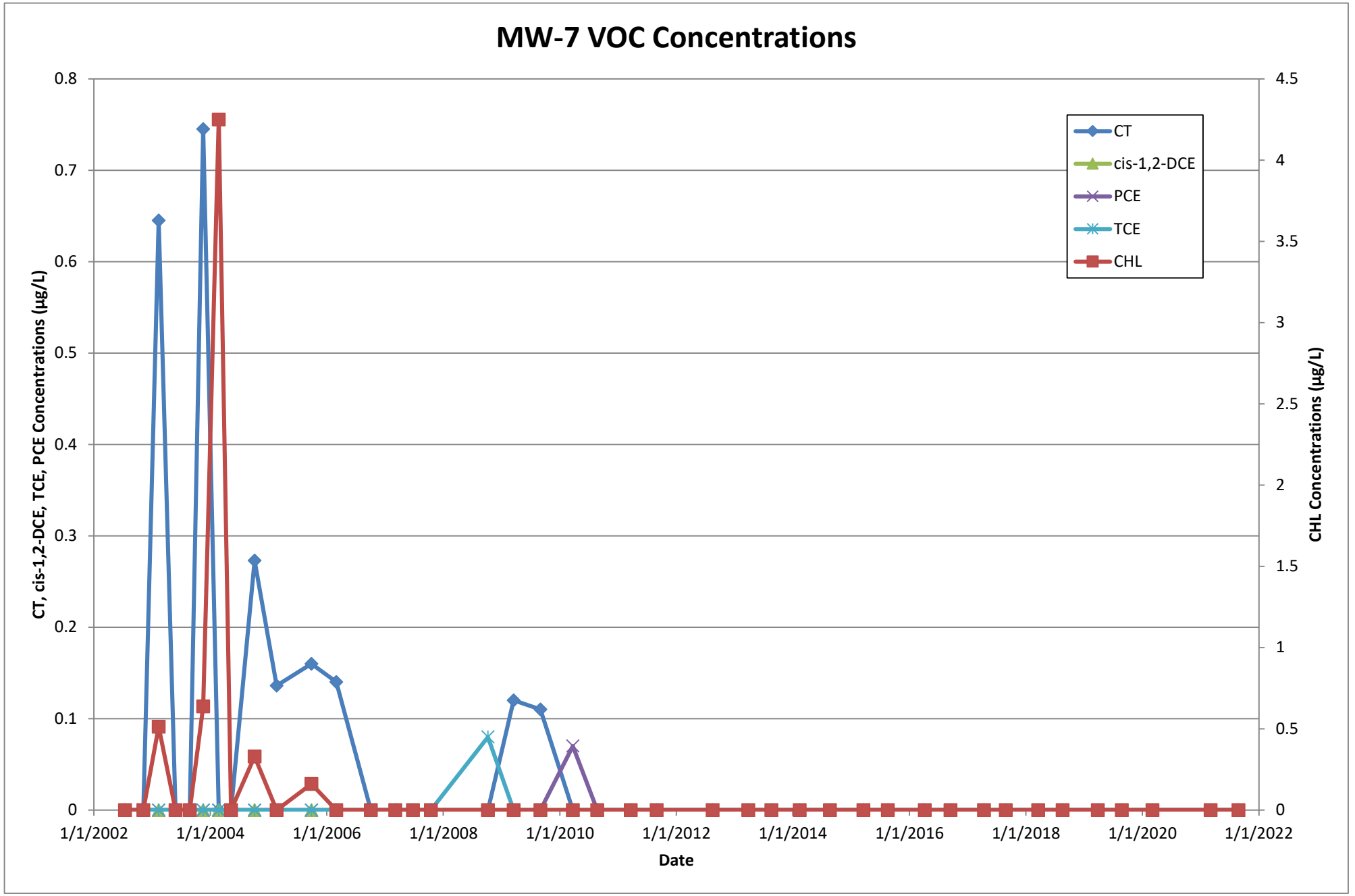
Figure 6 VOC Trend Charts

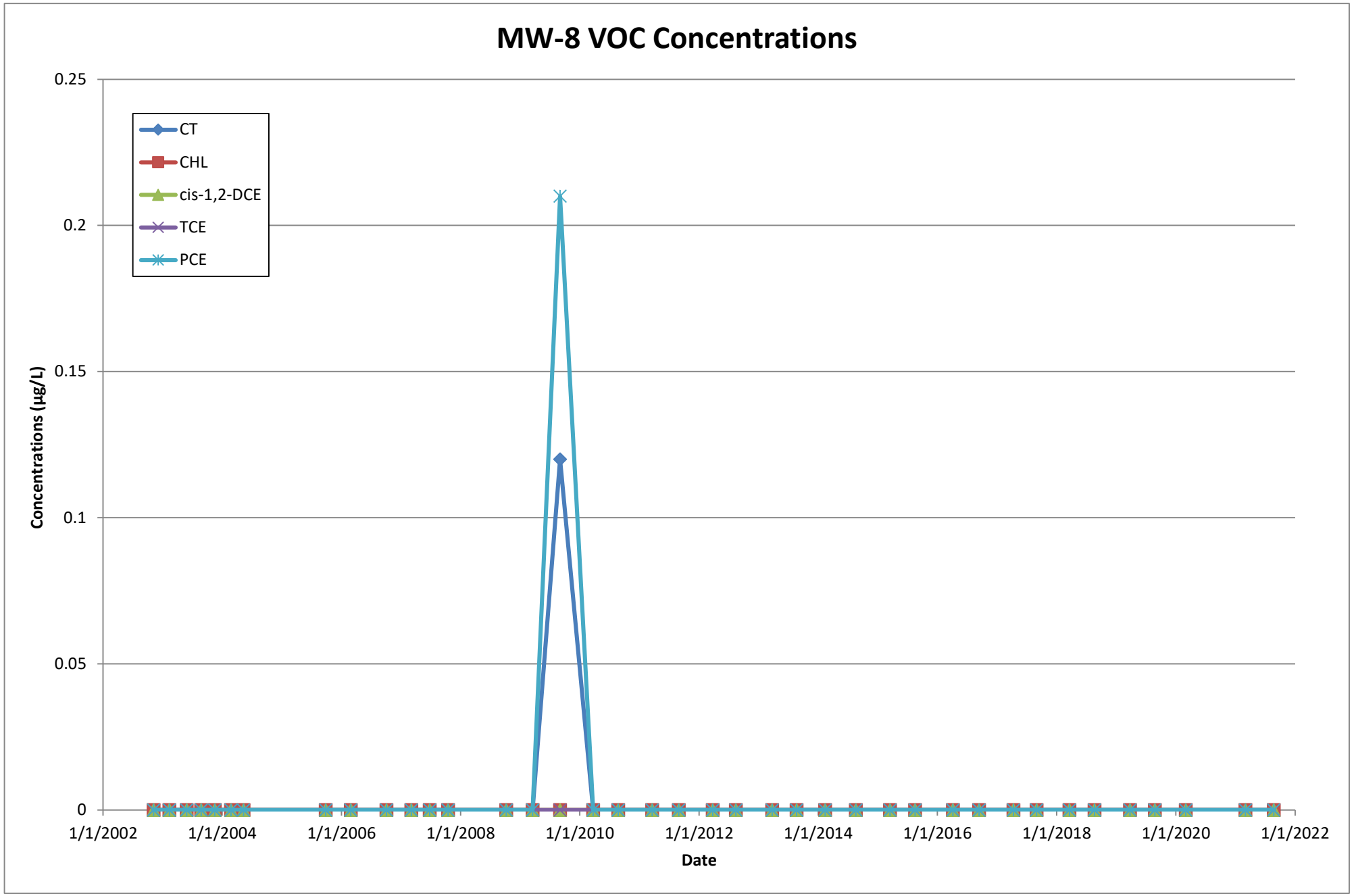

MW-3 VOC Concentrations
PCE
CHL
cis-1,2-DCE
TCE
CT
Concentrations (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

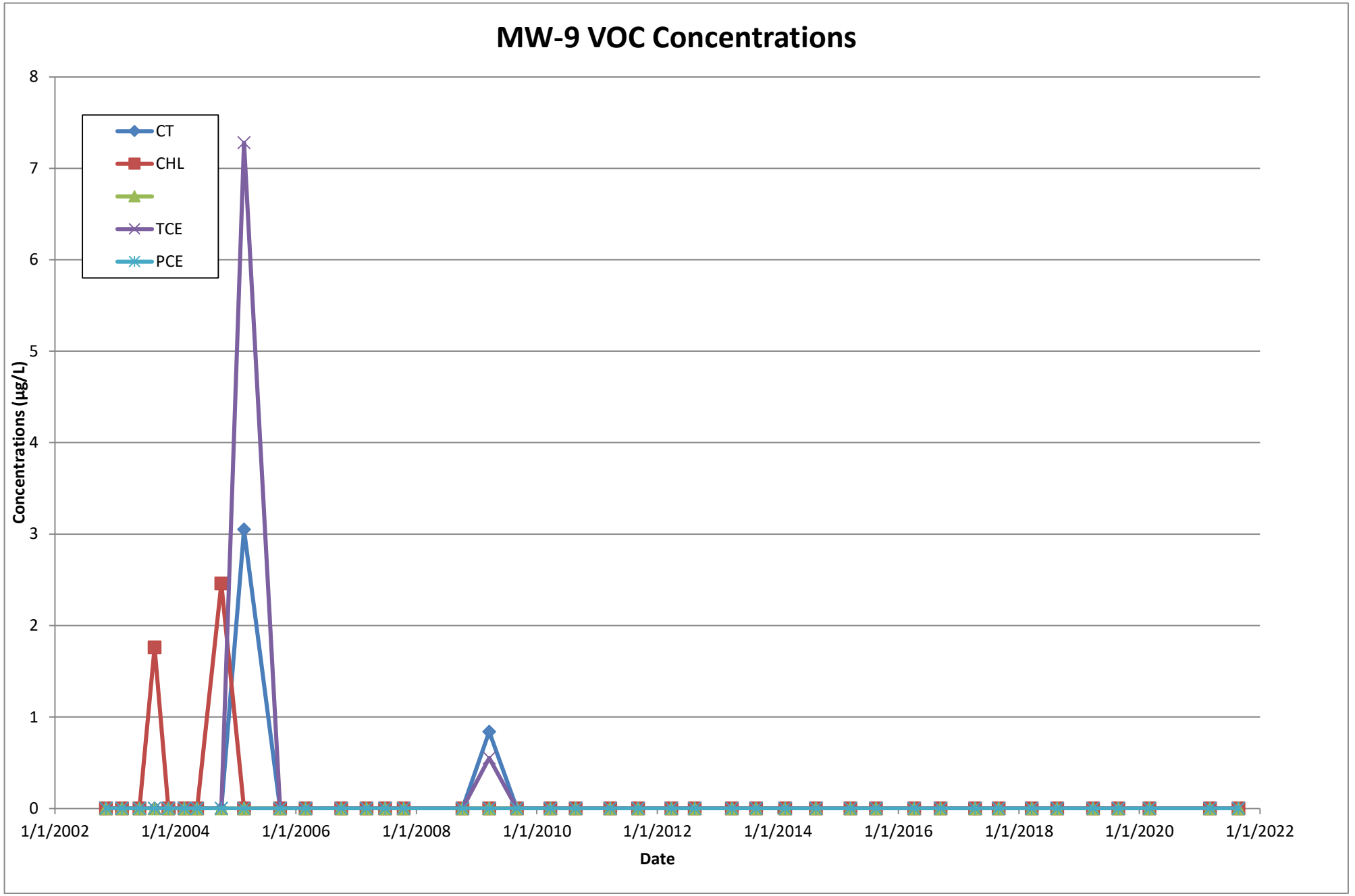

MW-4 VOC Concentrations
2.5
2
1.5
1
0.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

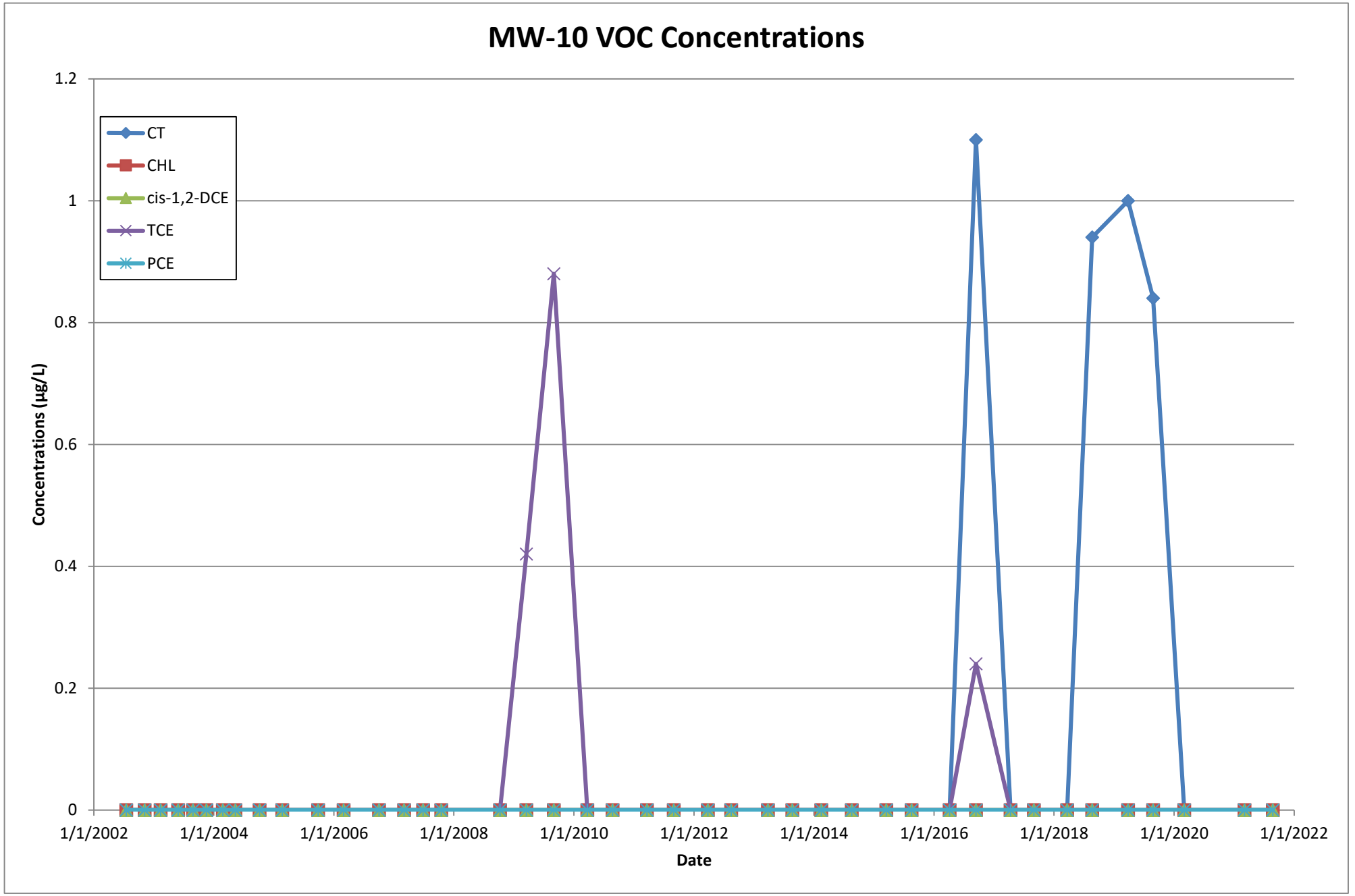

MW-5 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

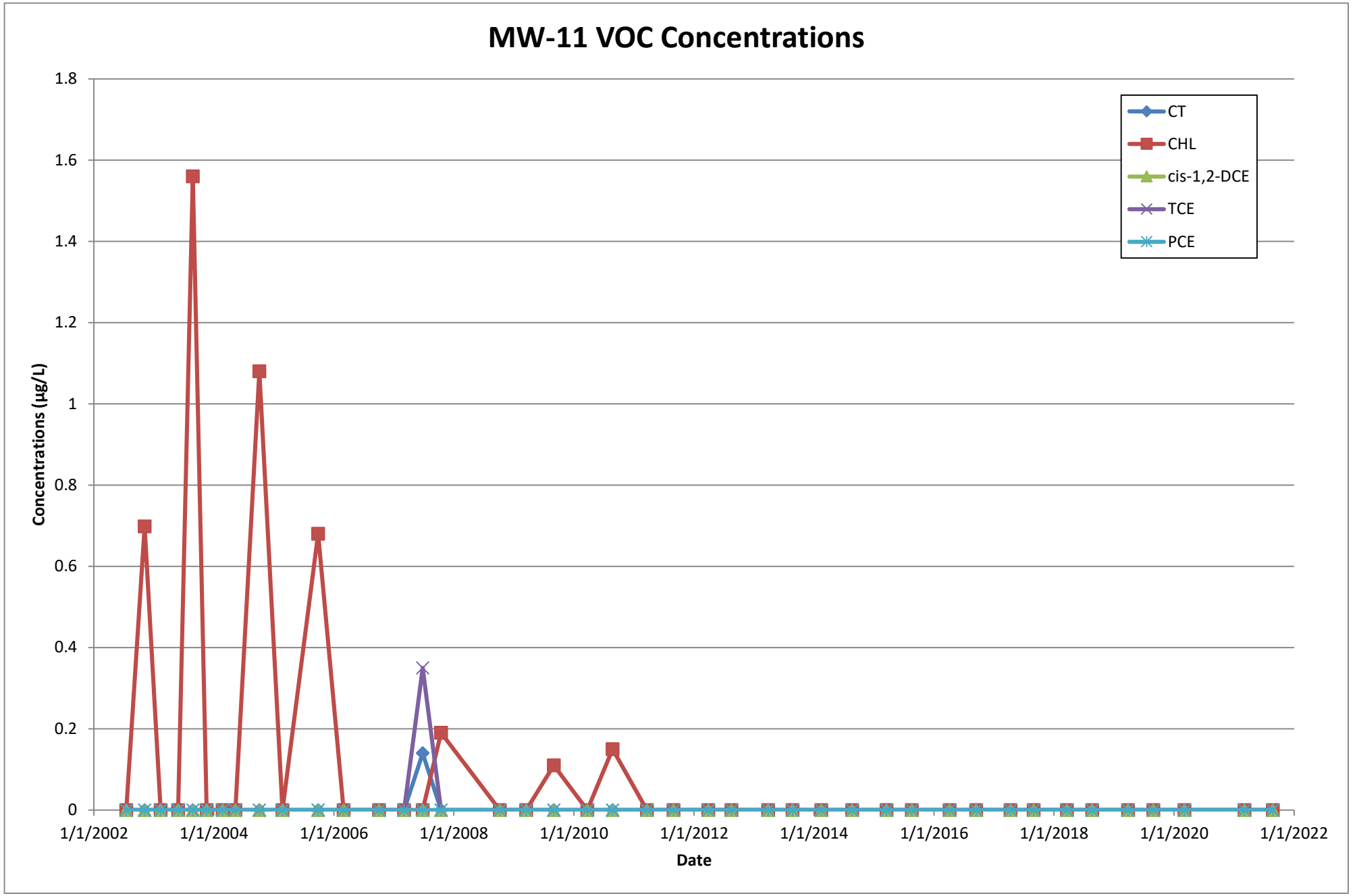

MW-6 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE, PCE Concentrations (µg/L)
cis-1,2-DCE Concentrations (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

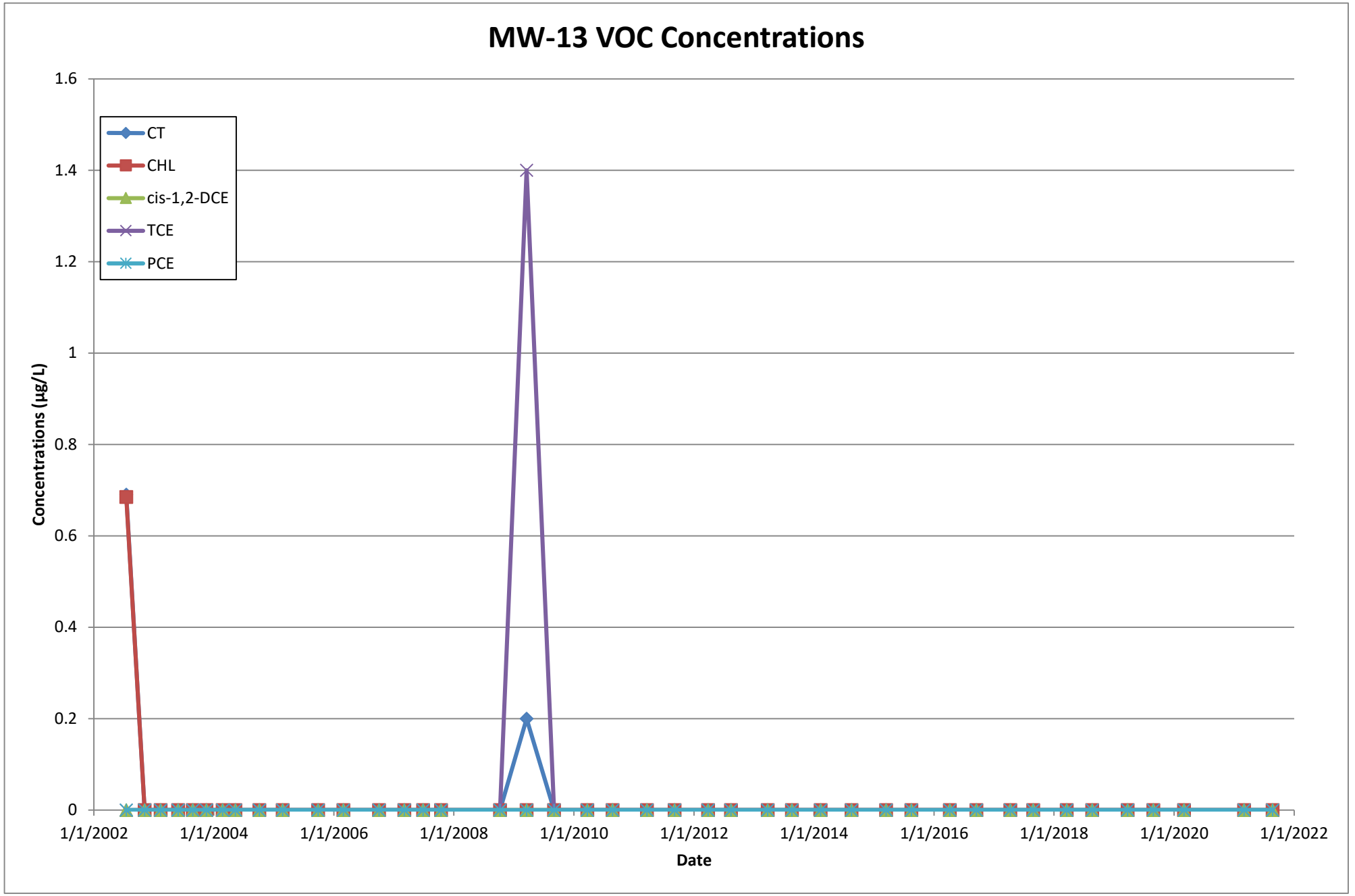

MW-7 VOC Concentrations
CT, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CHL Concentrations (µg/L)
Date
CT
cis-1,2-DCE
PCE
TCE
CHL
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

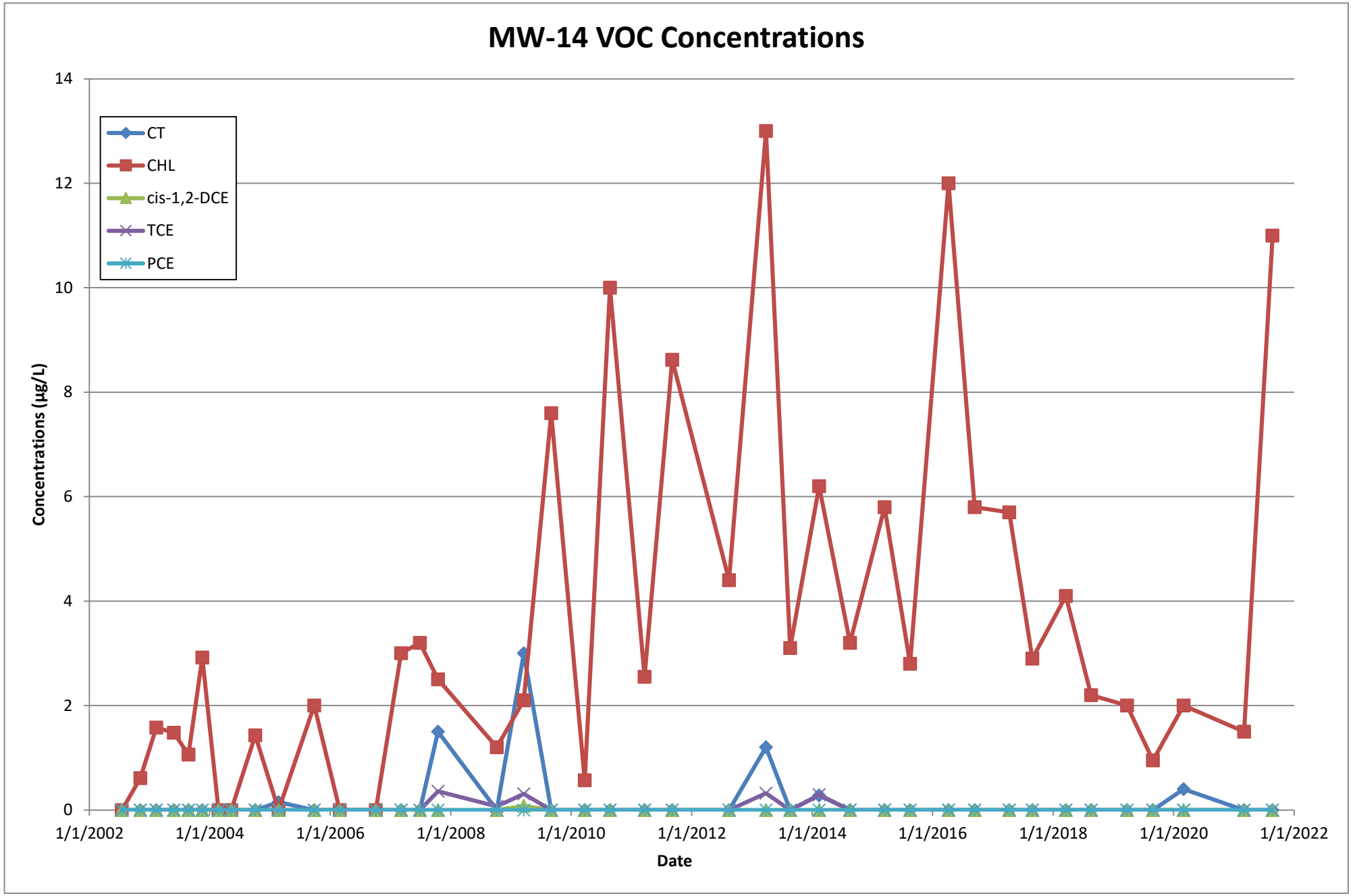

MW-8 VOC Concentrations
0.25
0.2
0.15
0.1
0.05
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

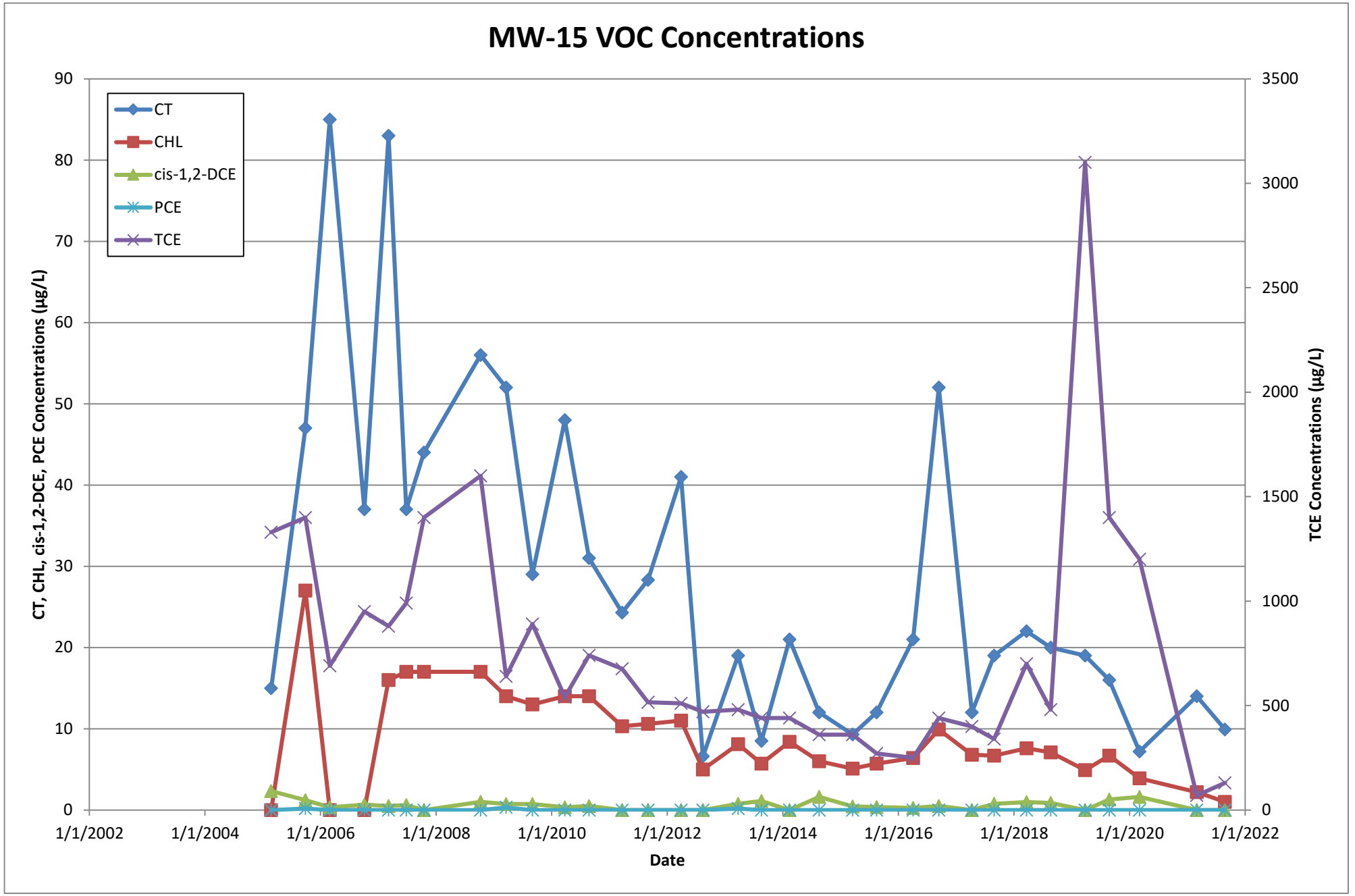

MW-9 VOC Concentrations
8
7
6
5
4
3
2
1
0
Concentrations (µg/L)
CT
CHL
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

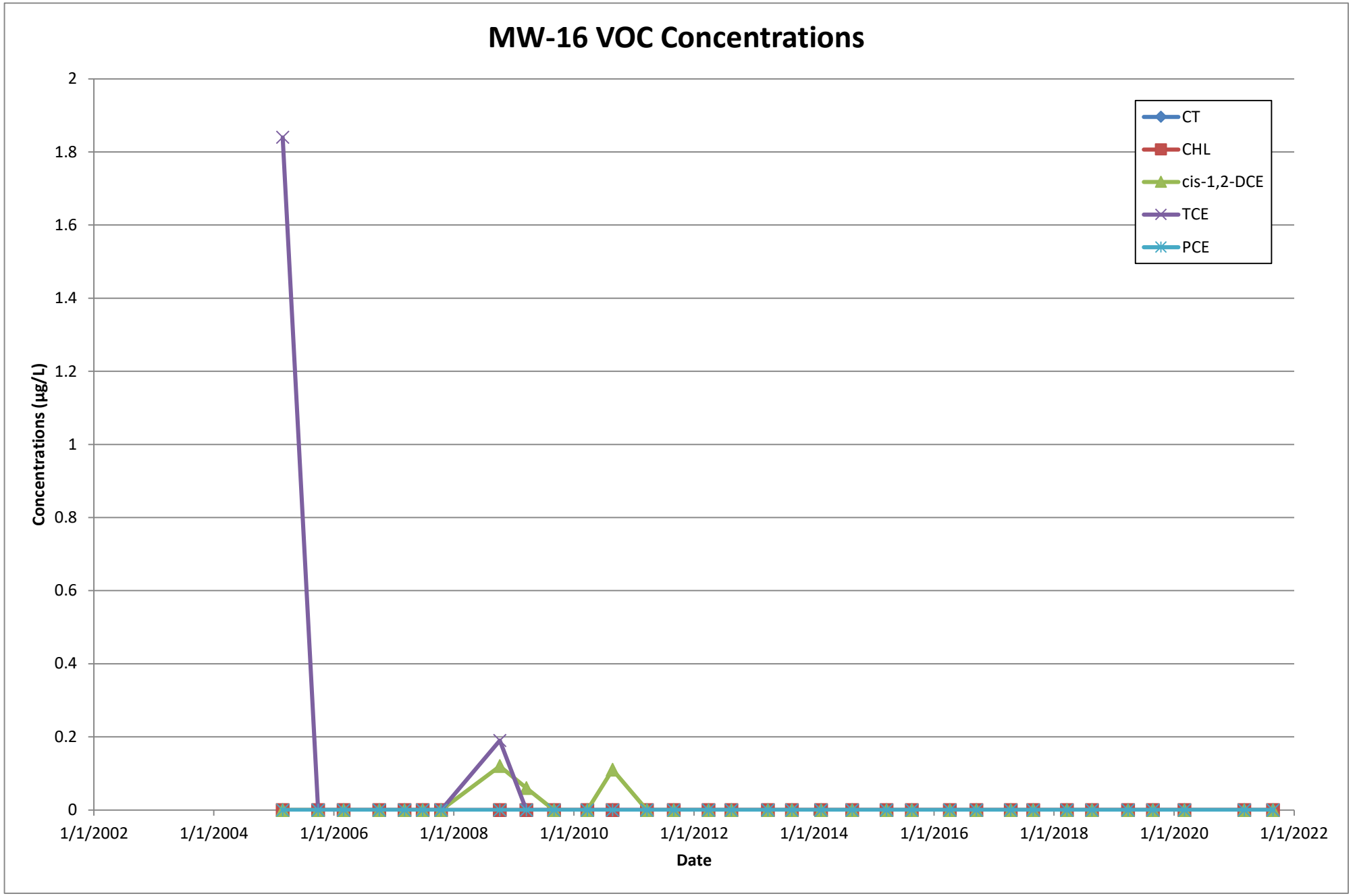

MW-10 VOC Concentrations
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

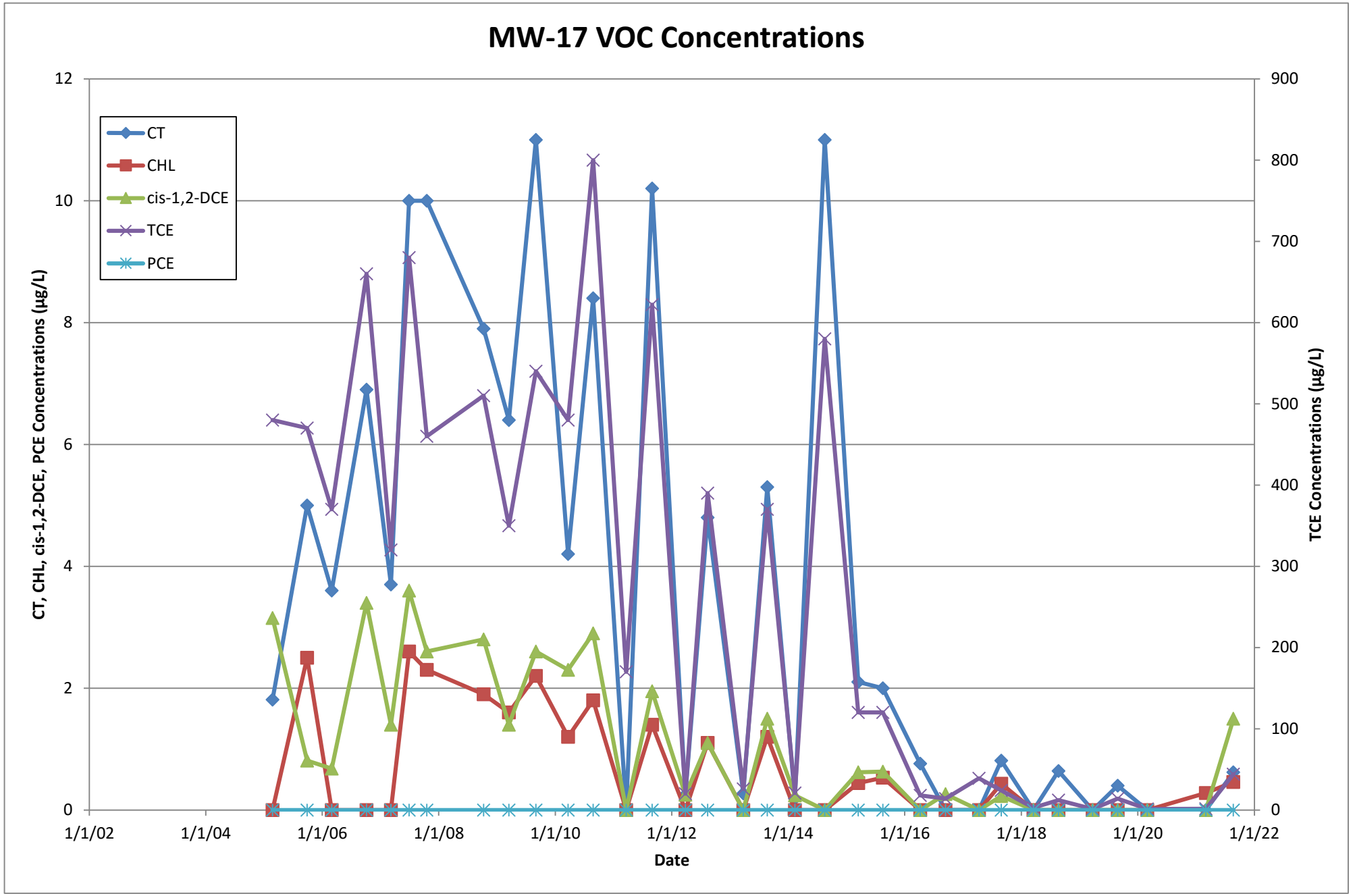

MW-11 VOC Concentrations
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

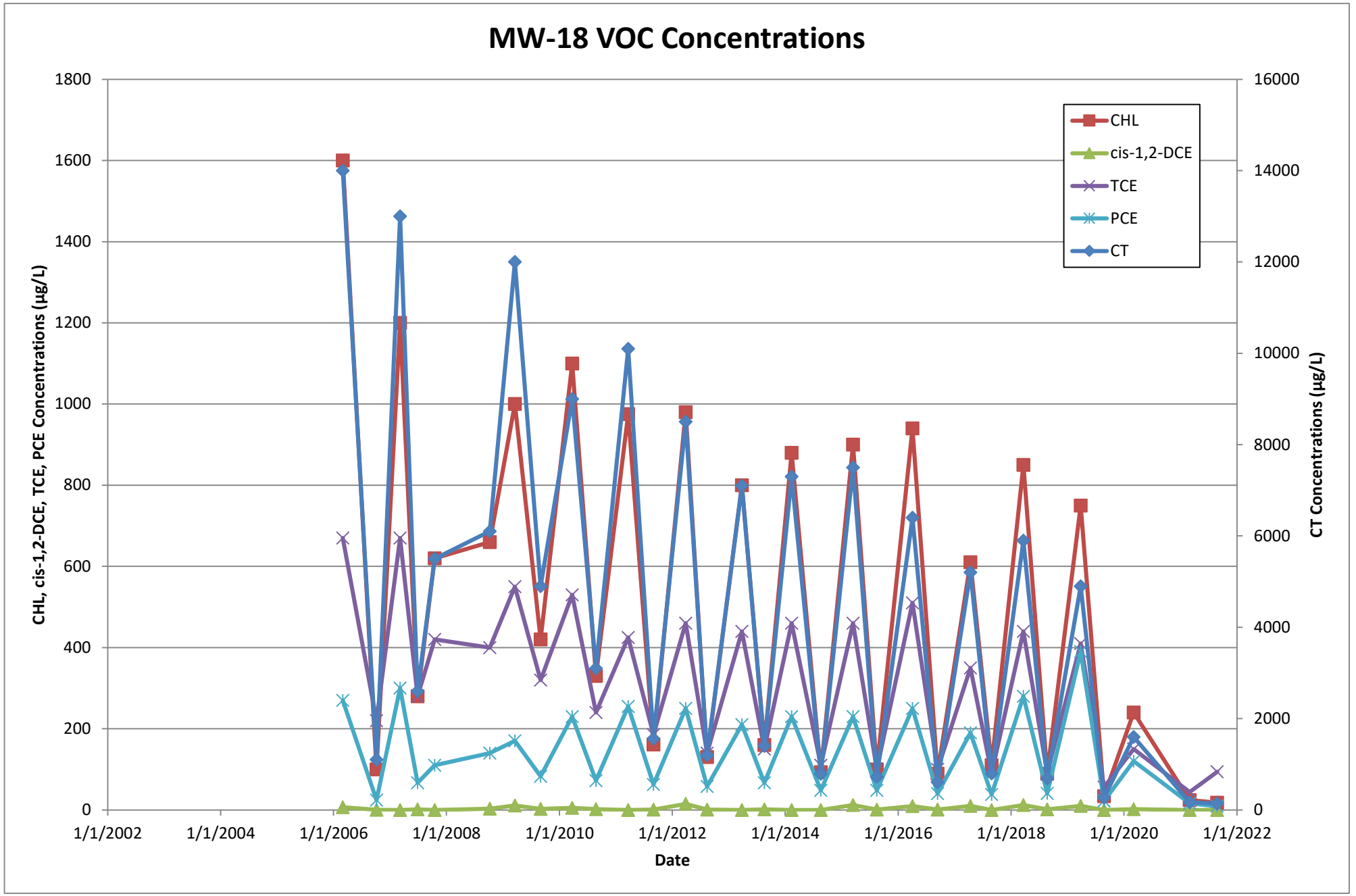

MW-13 VOC Concentrations
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

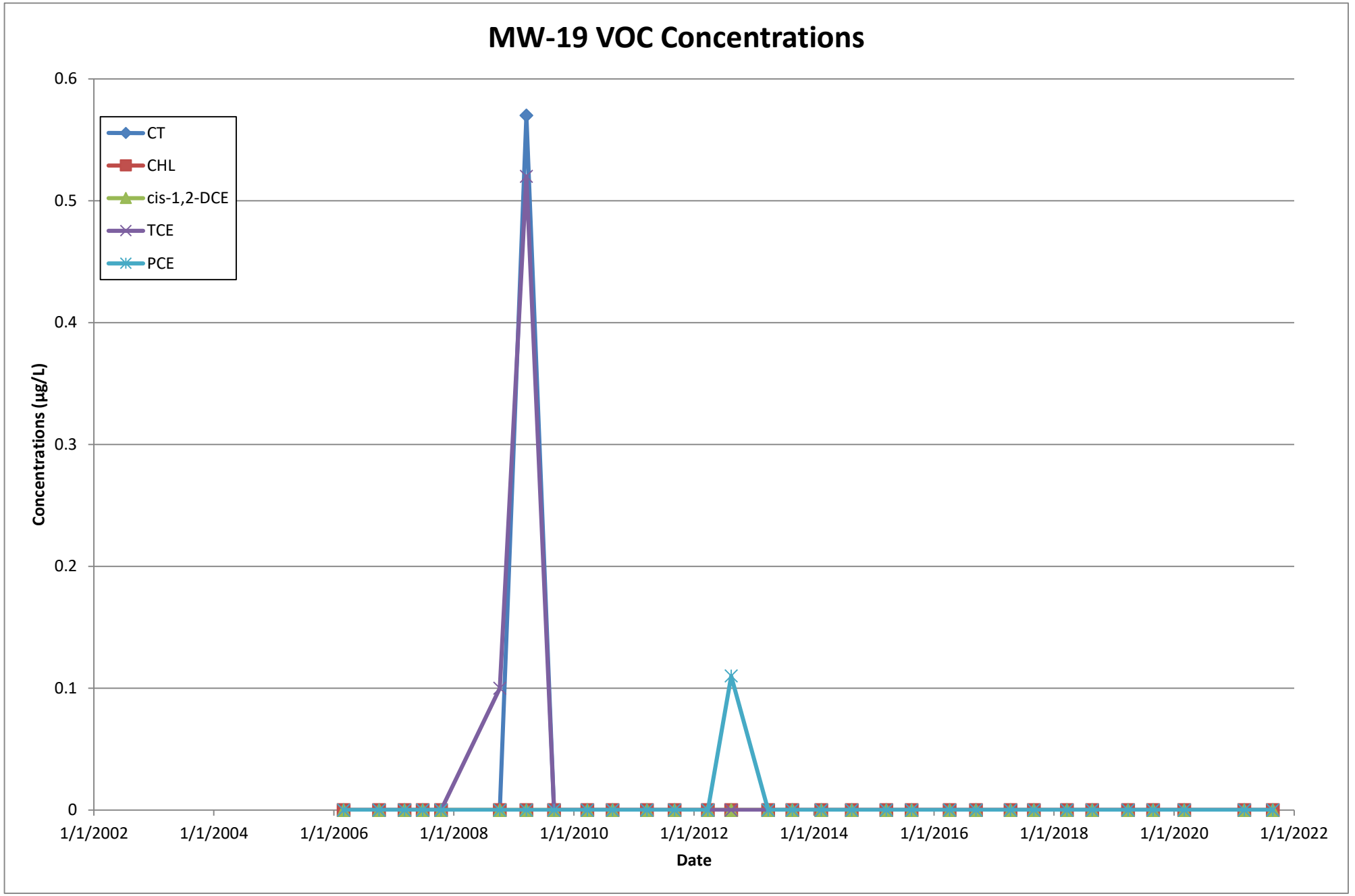

MW-14 VOC Concentrations
14
12
10
8
6
4
2
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

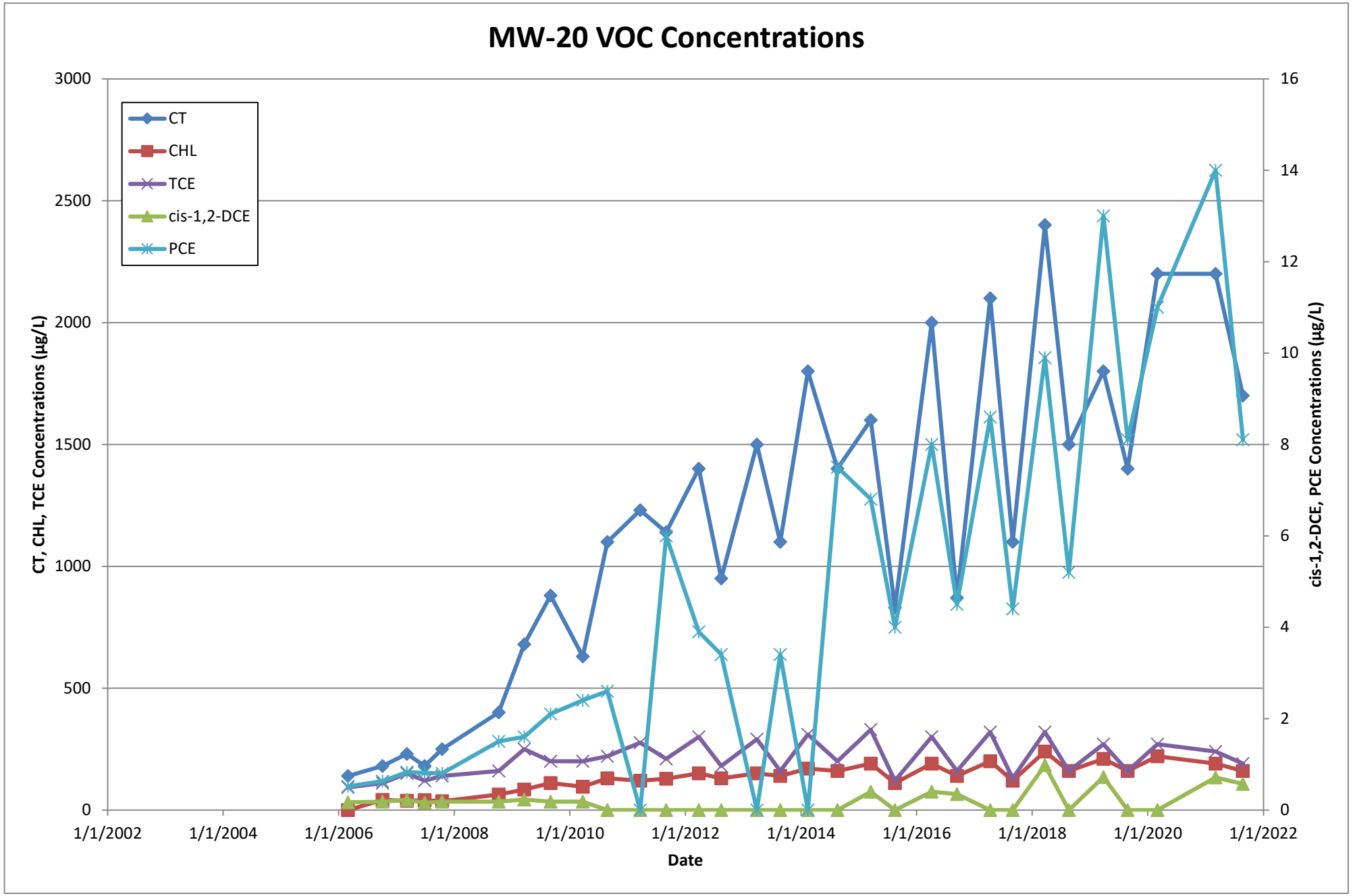

MW-15 VOC Concentrations
CT
CHL
cis-1,2-DCE
PCE
TCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
10
20
30
40
50
60
70
80
90
0
500
1000
1500
2000
2500
3000
3500
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

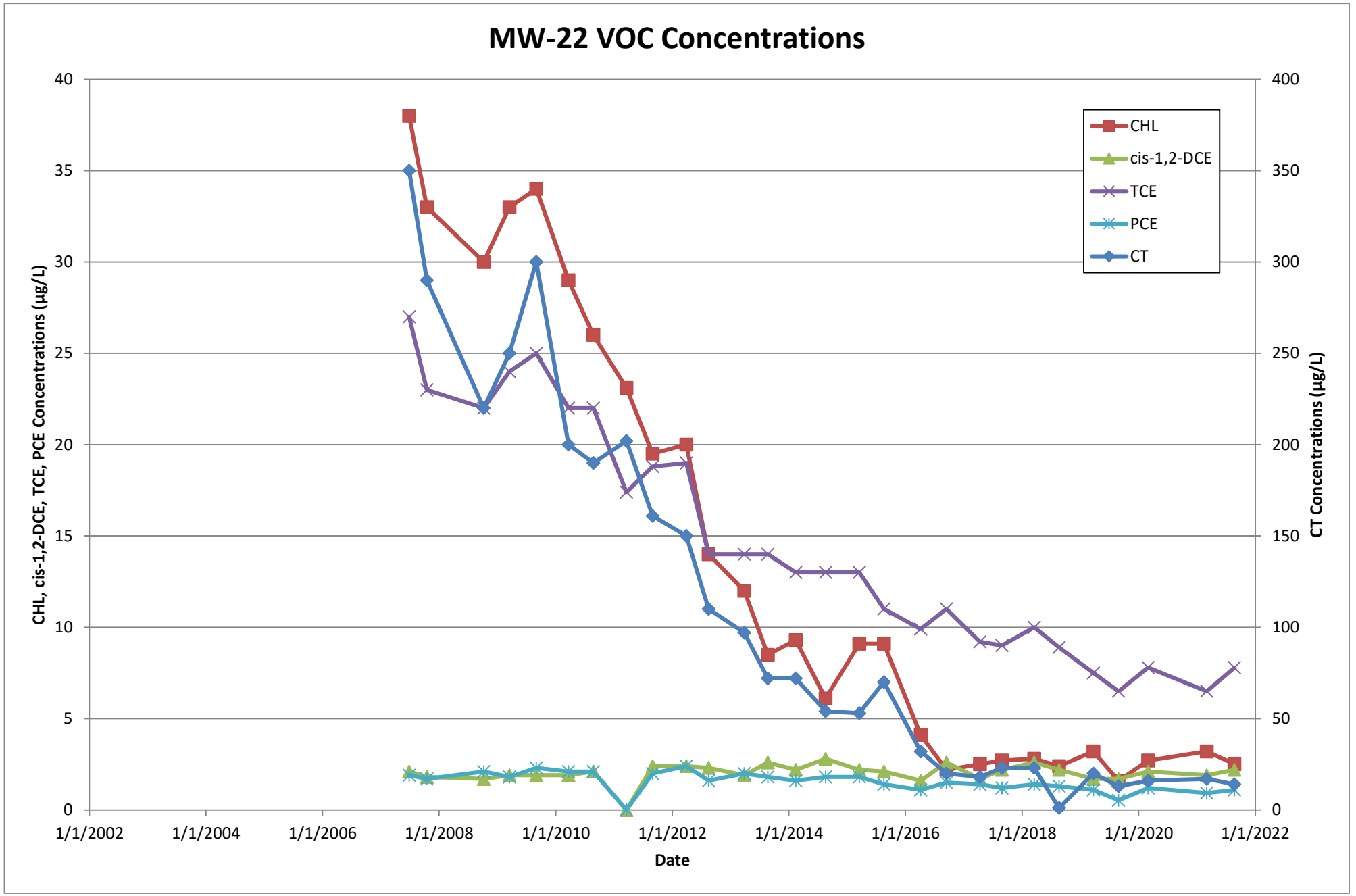

MW-16 VOC Concentrations
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Concentrations (µg/L)
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

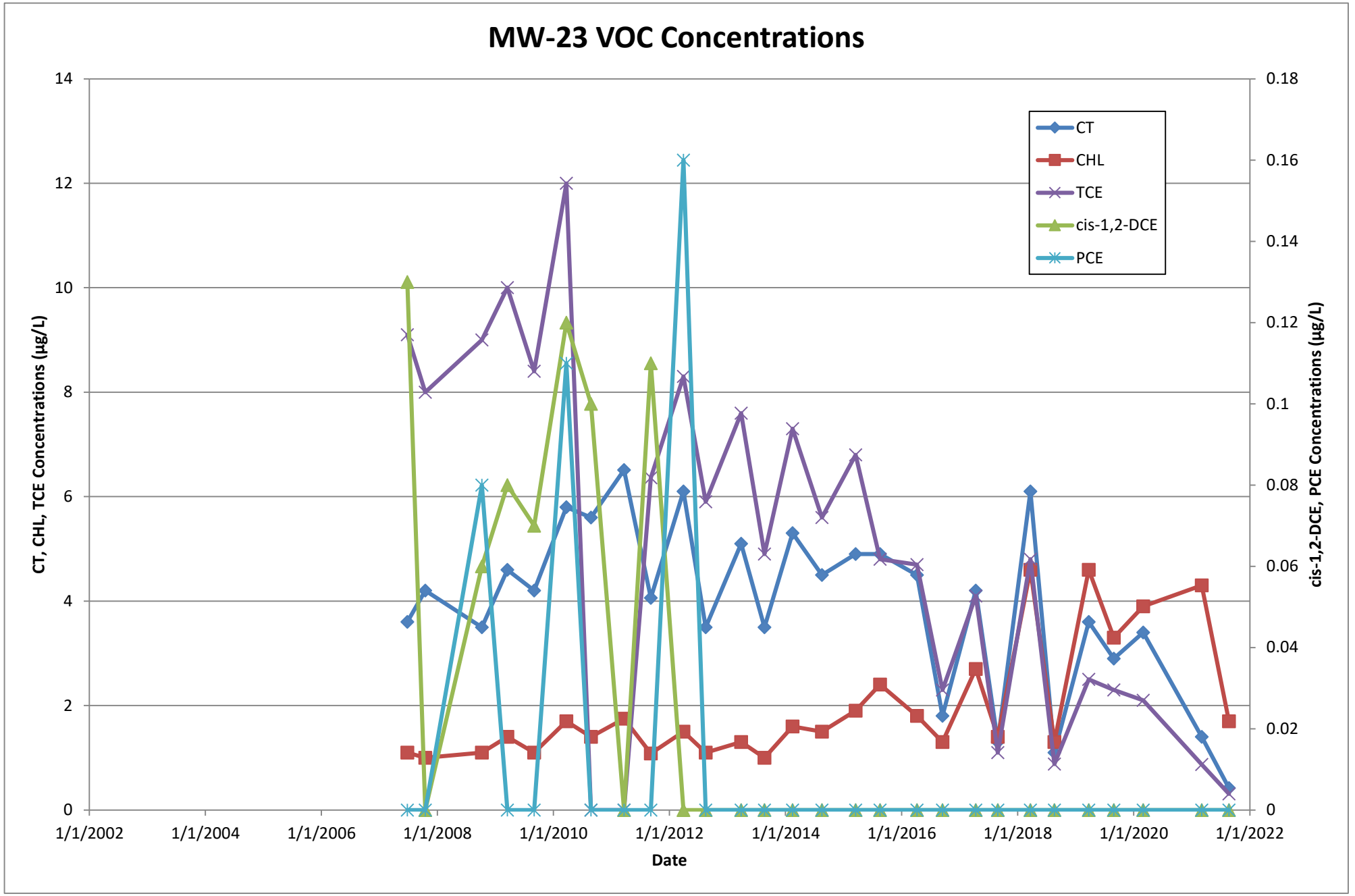

MW-17 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
2
4
6
8
10
12
0
100
200
300
400
500
600
700
800
900
1/1/02
1/1/04
1/1/06
1/1/08
1/1/10
1/1/12
1/1/14
1/1/16
1/1/18
1/1/20
1/1/22

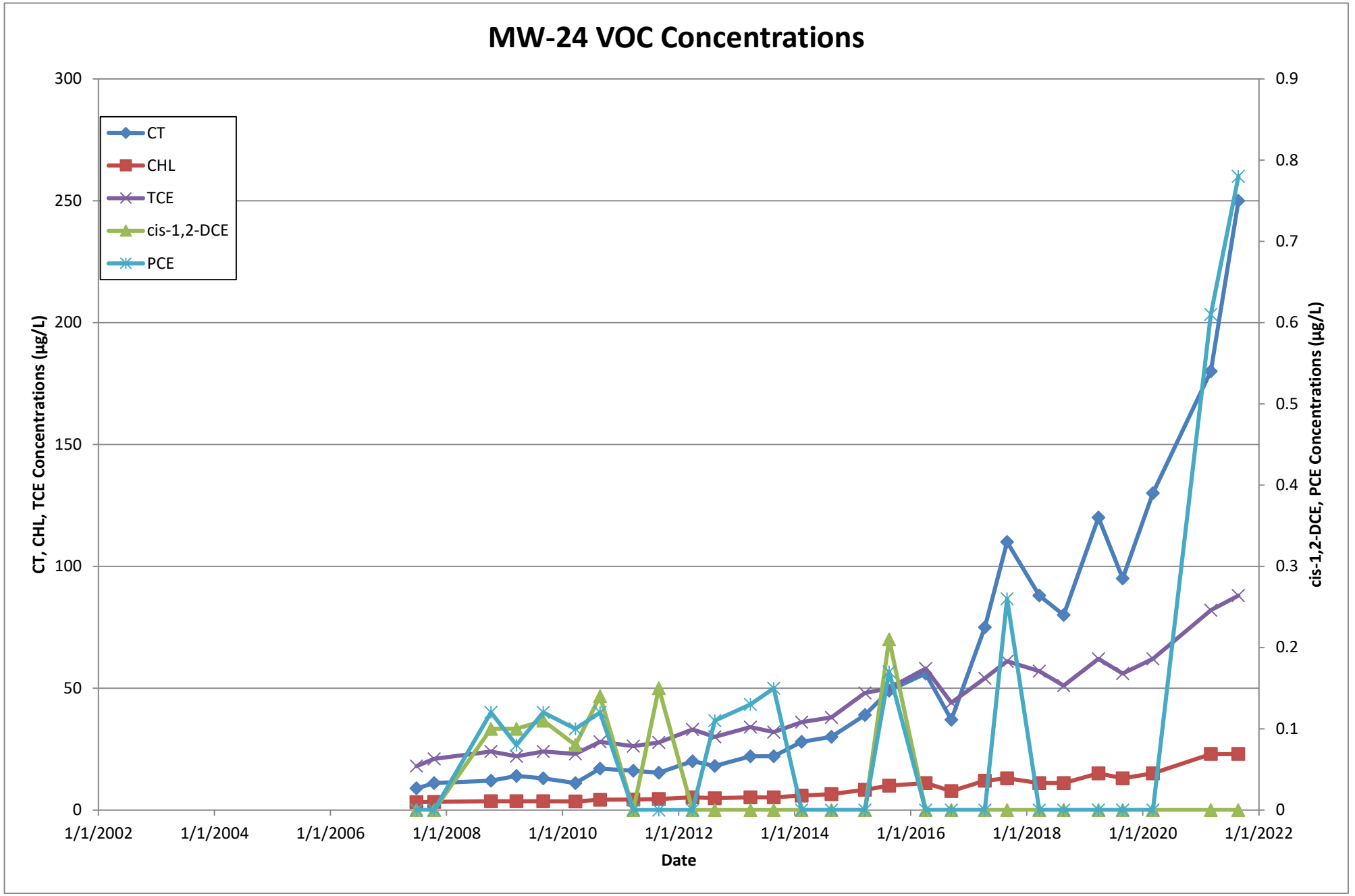

MW-18 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
0
200
400
600
800
1000
1200
1400
1600
1800
2000
4000
6000
8000
10000
12000
14000
16000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

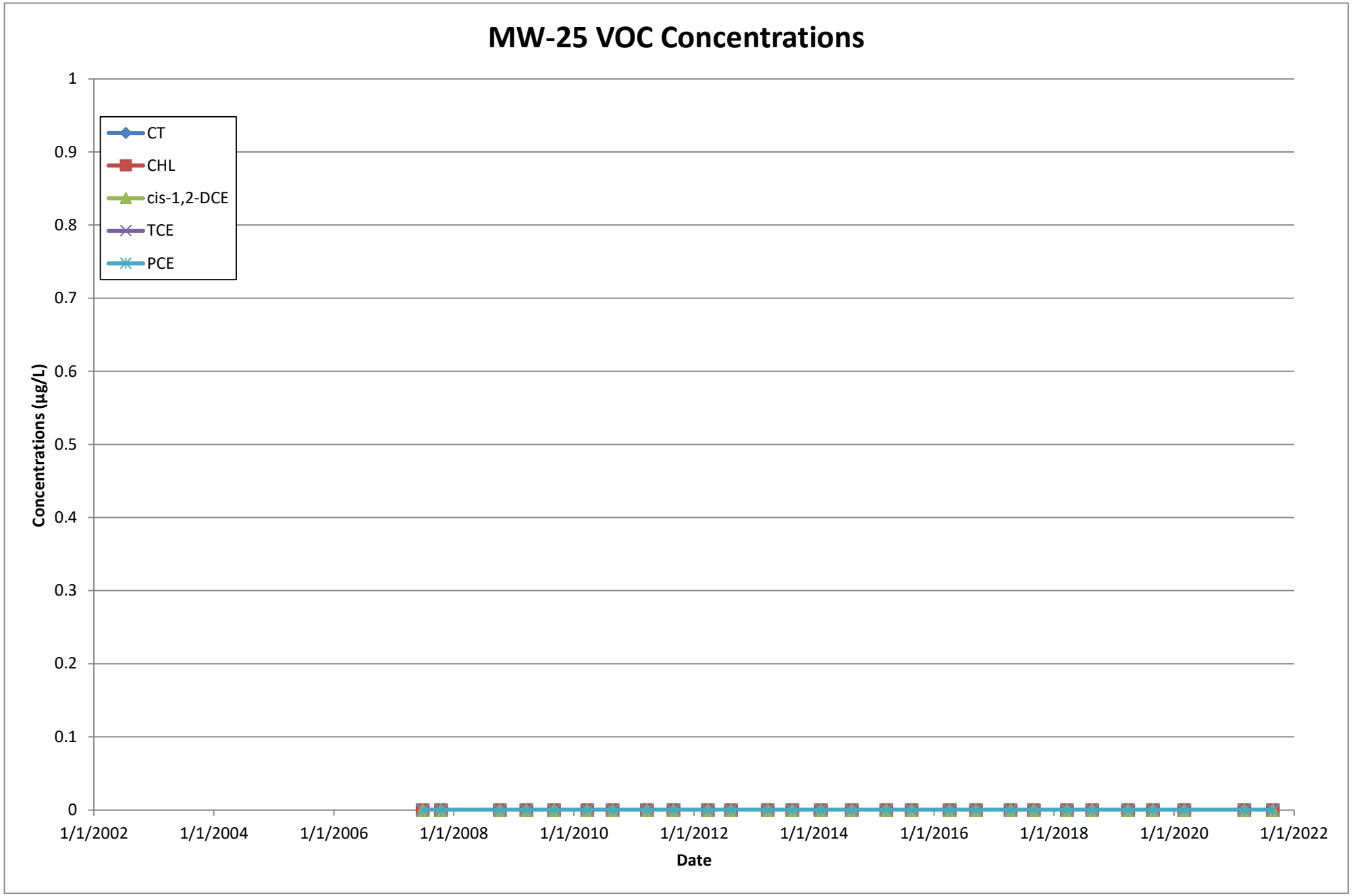

MW-19 VOC Concentrations
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

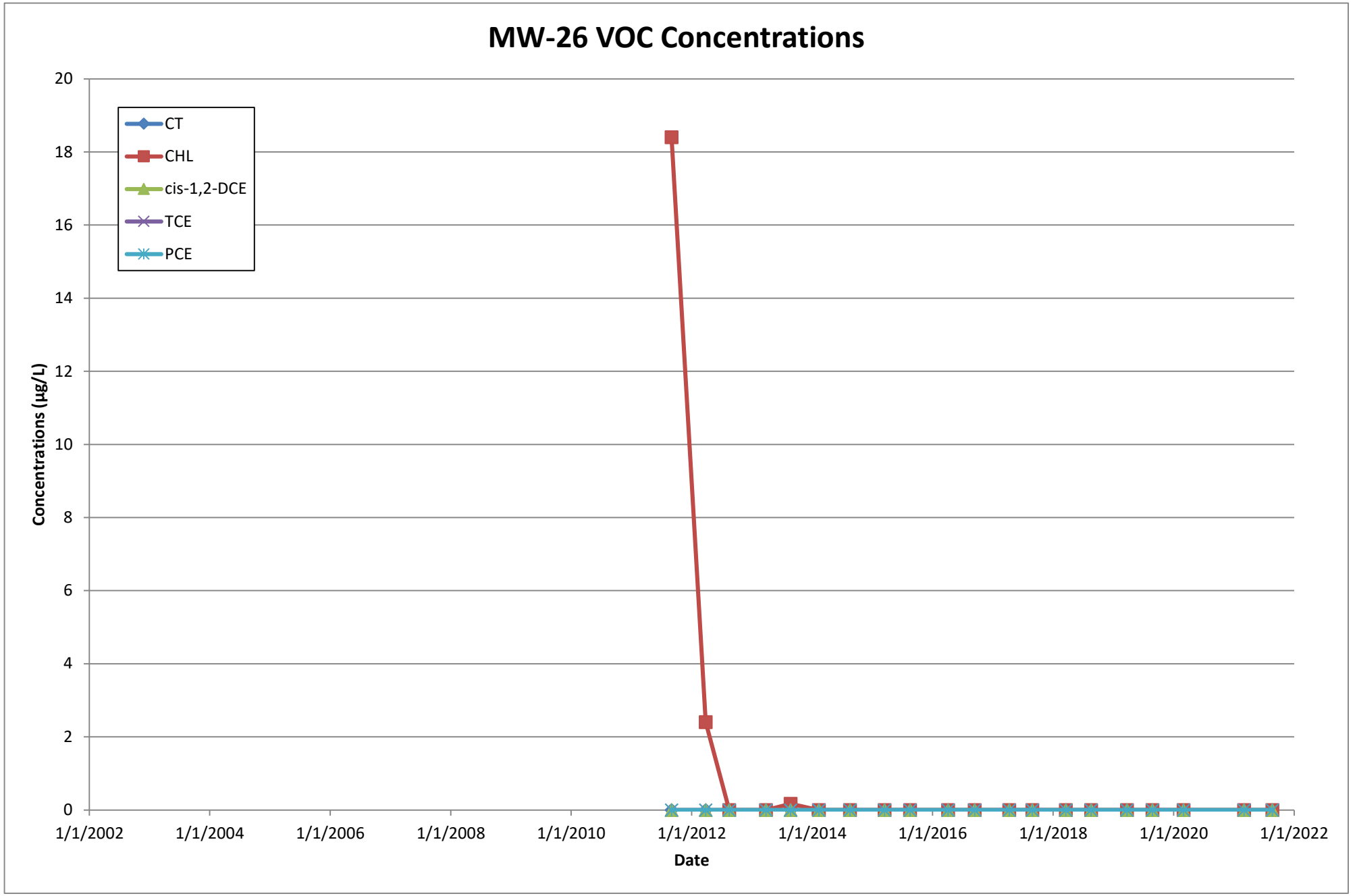

MW-20 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
3000
2500
2000
1500
1000
500
0
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

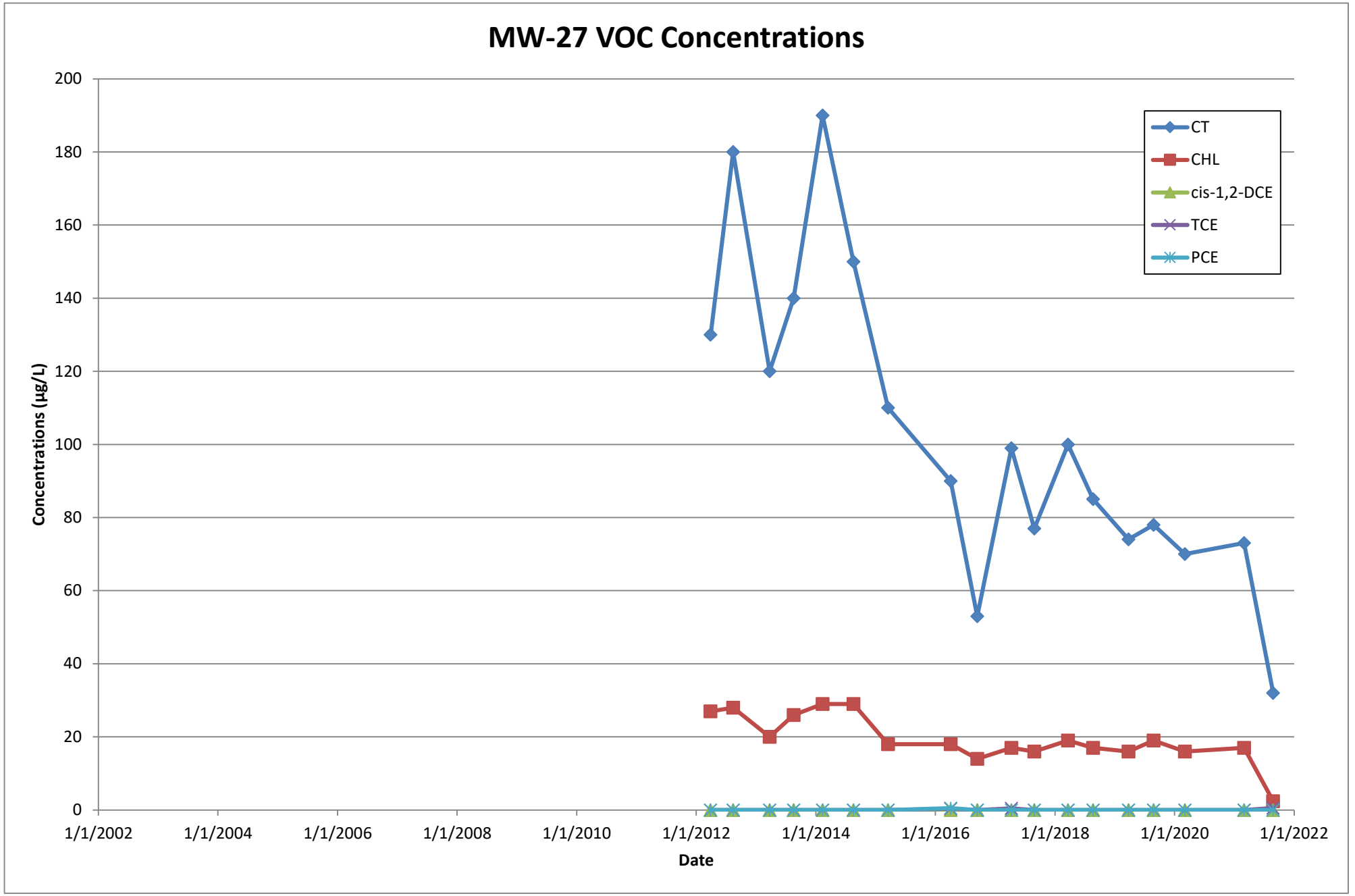

MW-22 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
5
10
15
20
25
30
35
40
0
50
100
150
200
250
300
350
400
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

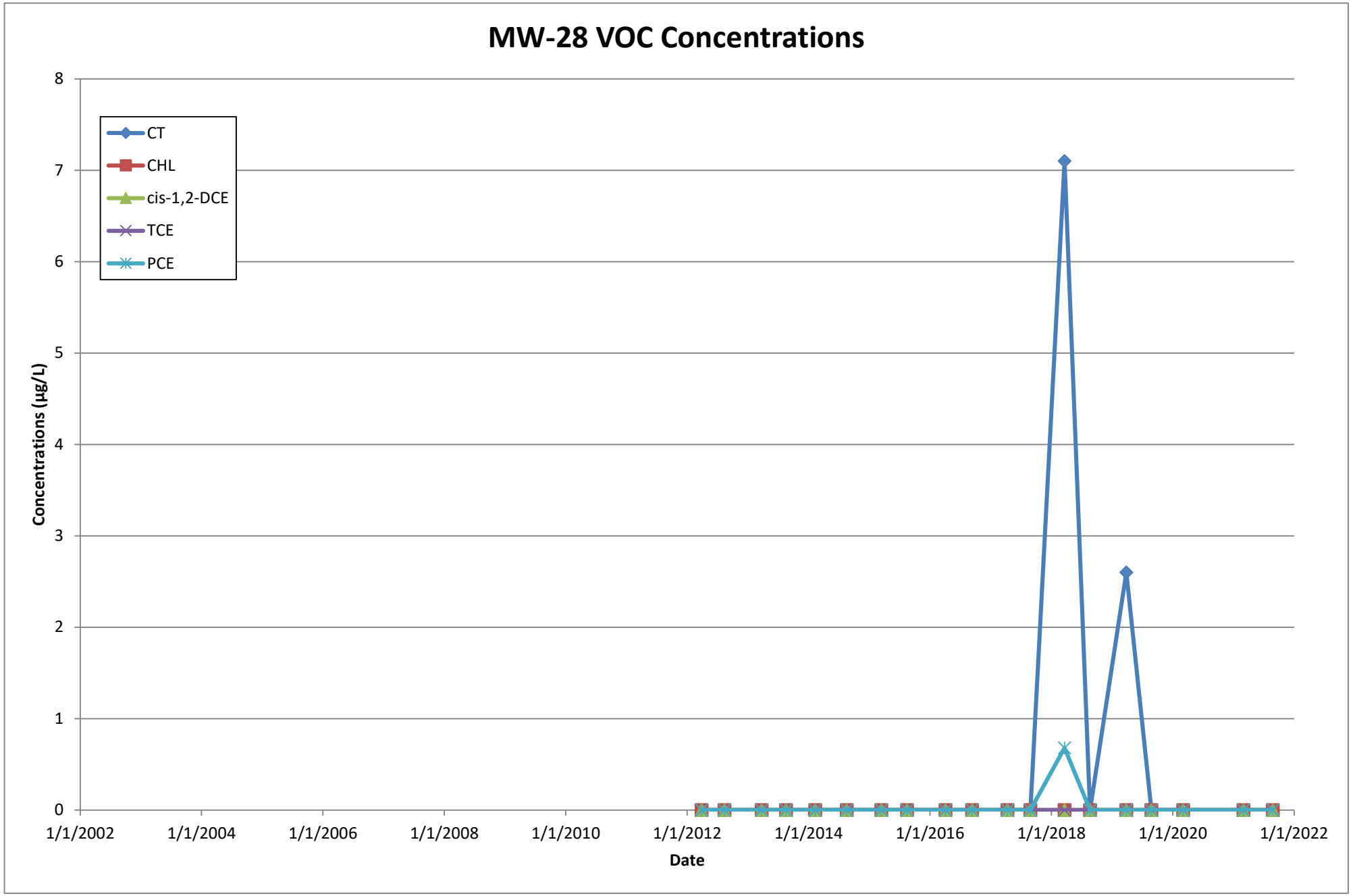

MW-23 VOC Concentrations
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
CT
CHL
TCE
cis-1,2-DCE
PCE
0
2
4
6
8
10
12
14
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

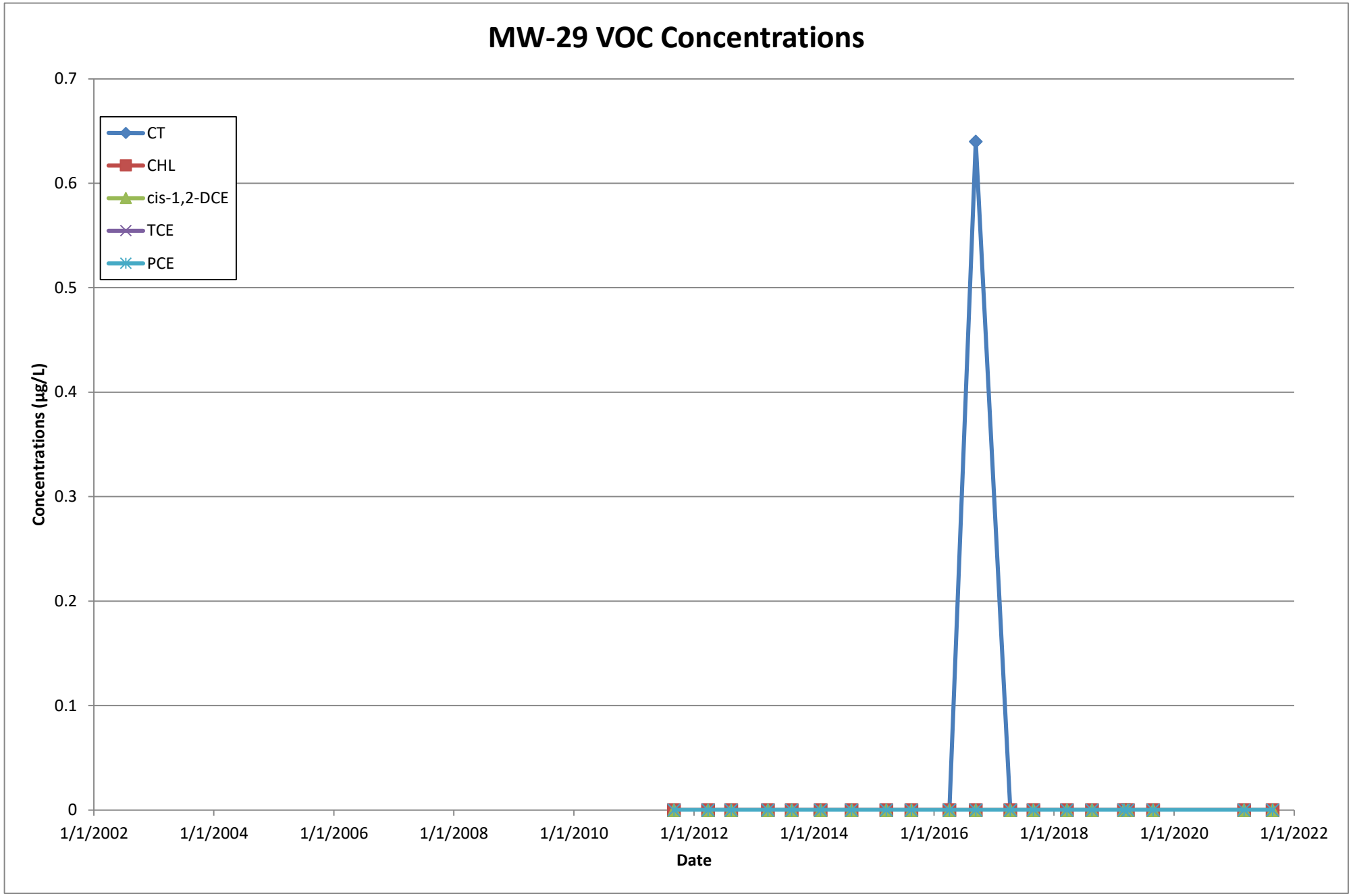

MW-24 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
300
250
200
150
100
50
0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

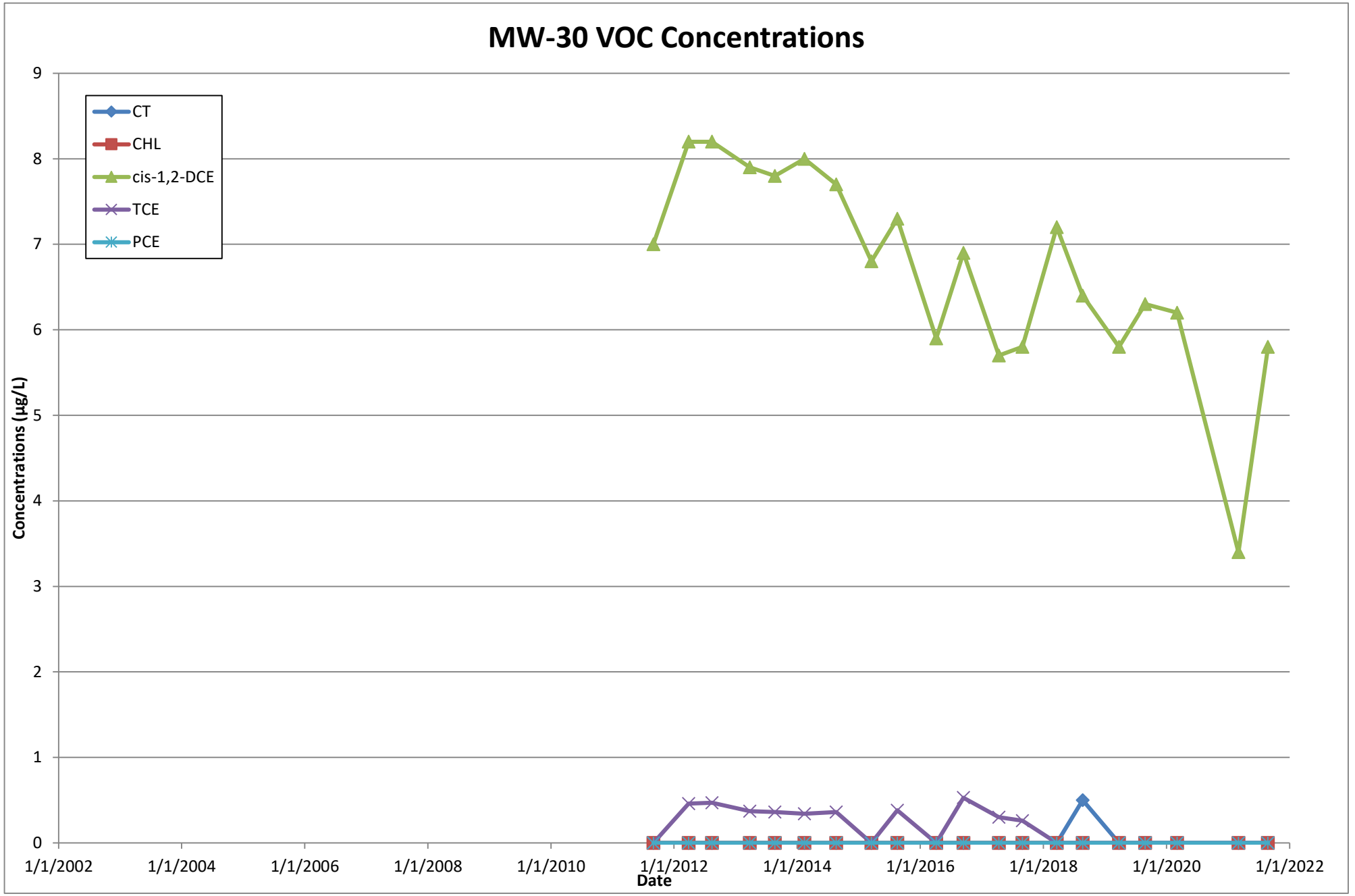

MW-25 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

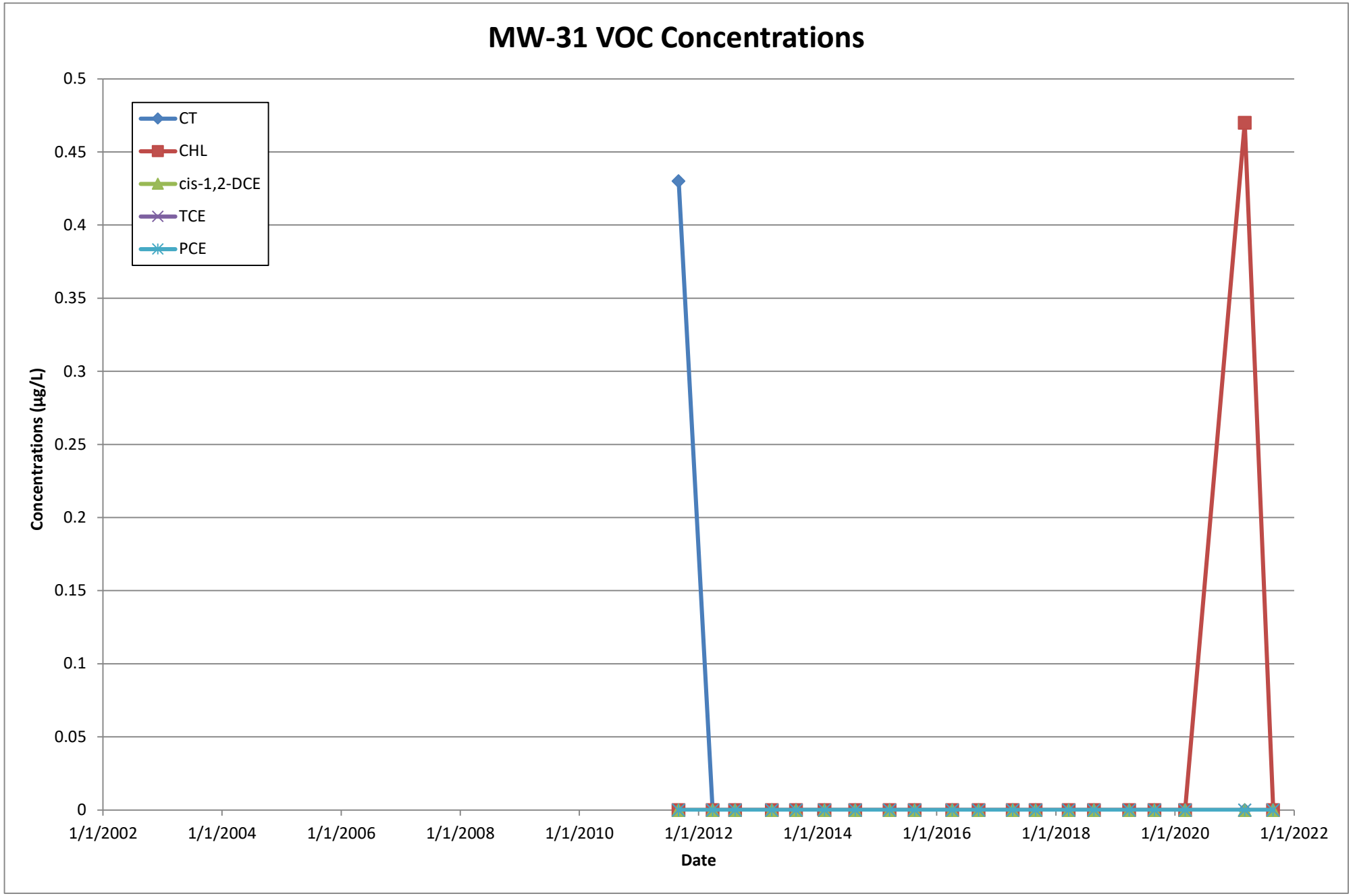

MW-26 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

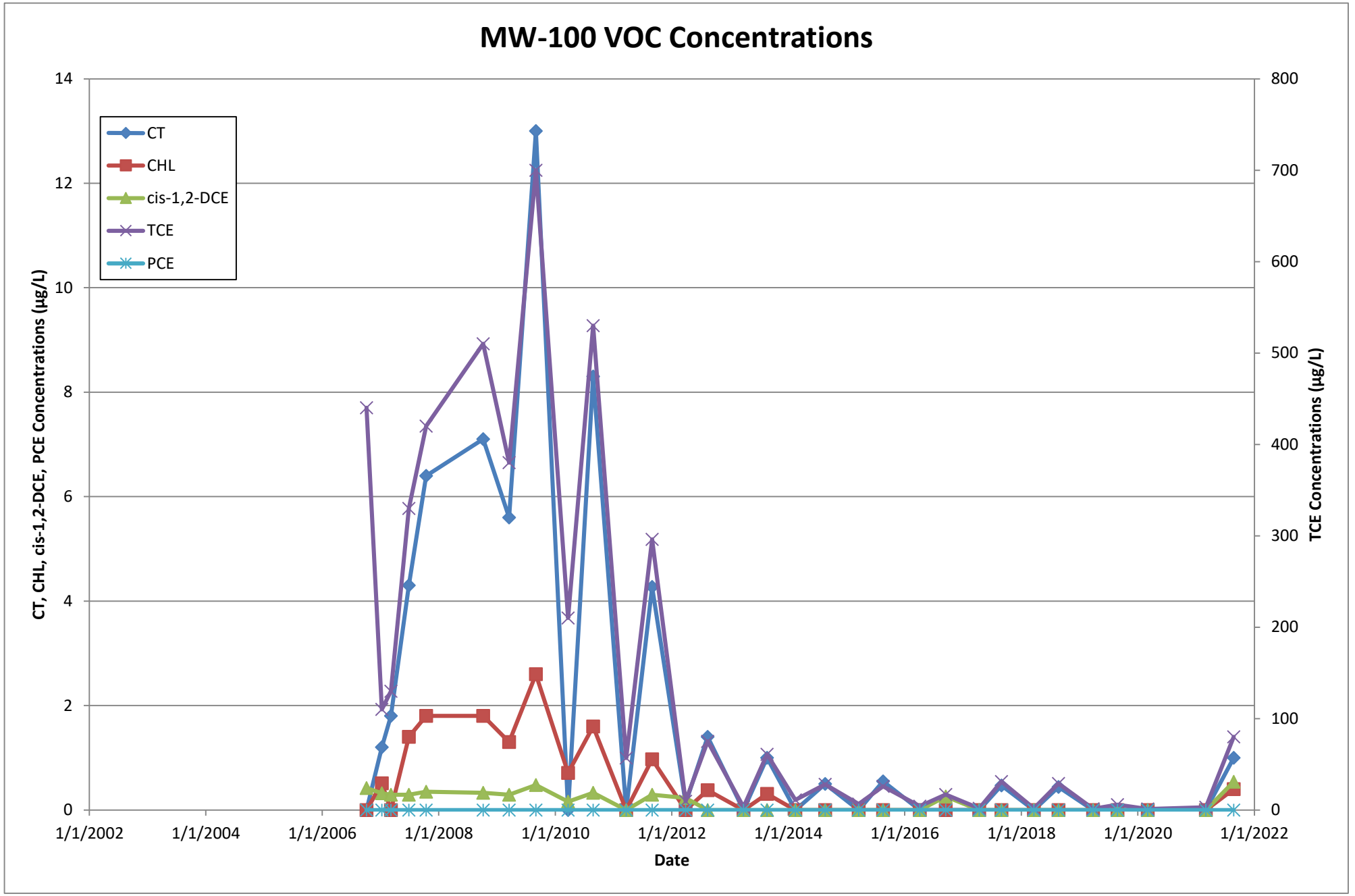

MW-27 VOC Concentrations
Concentrations (µg/L)
200
180
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

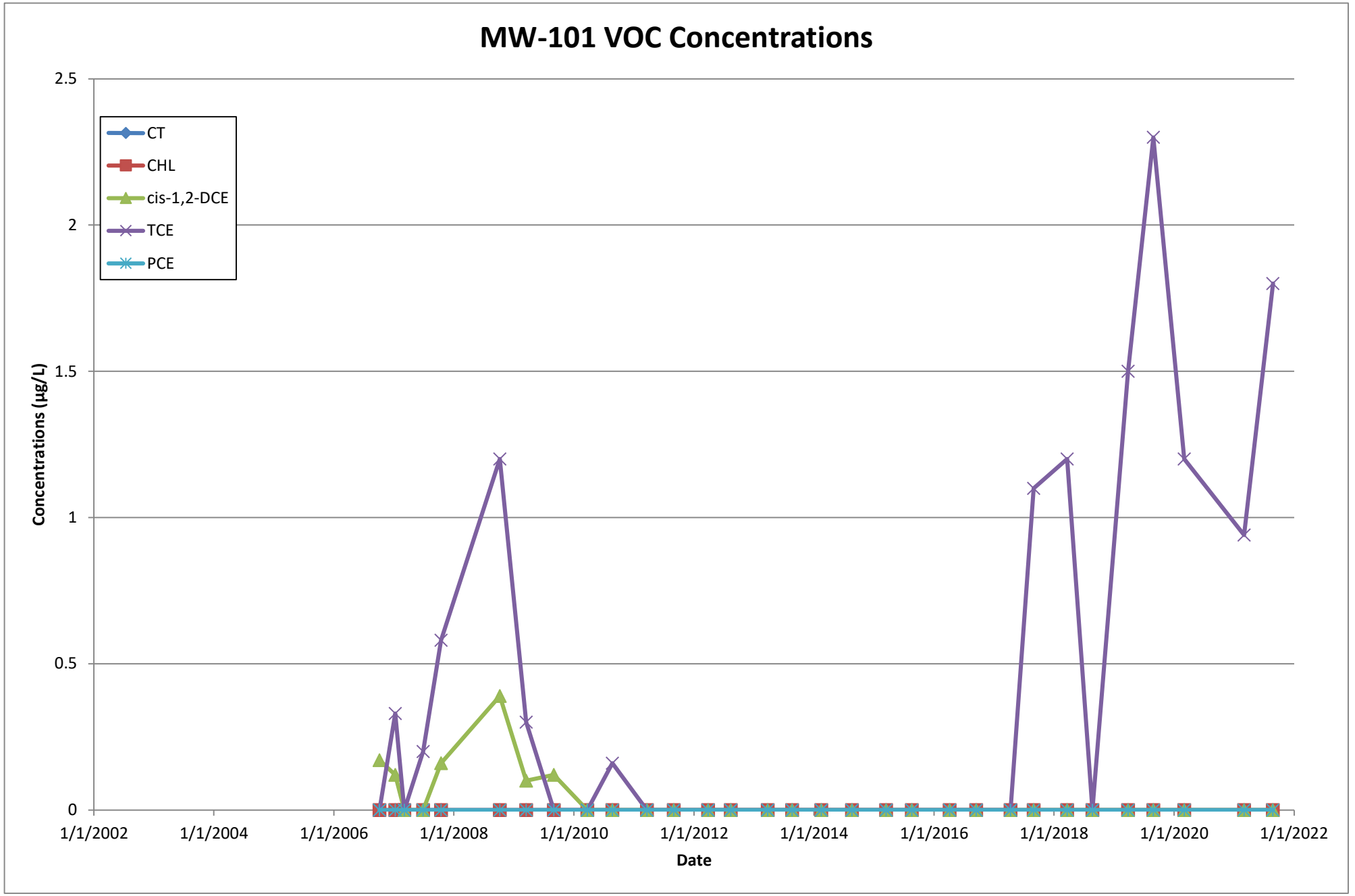

MW-28 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

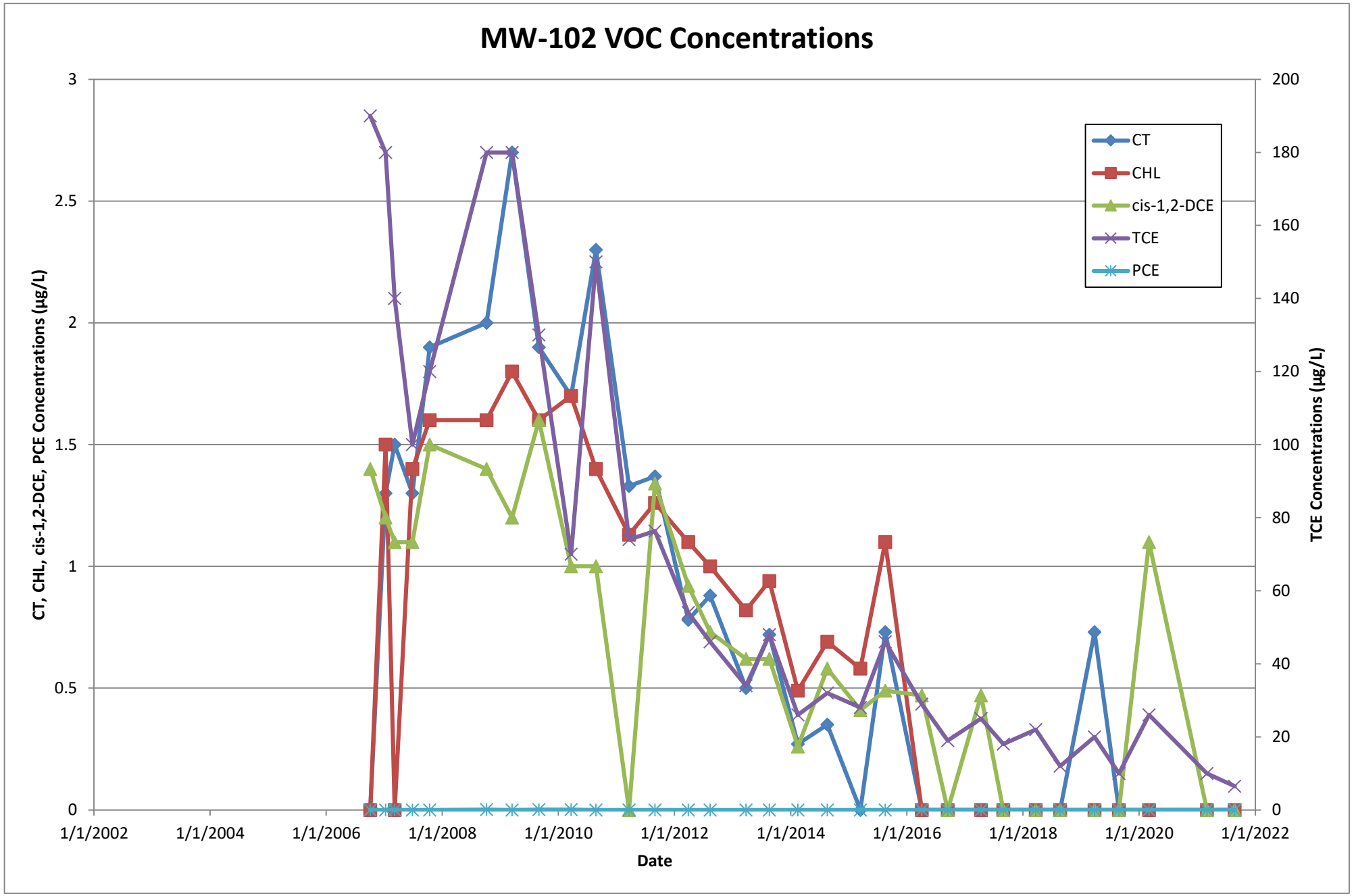

MW-29 VOC Concentrations
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

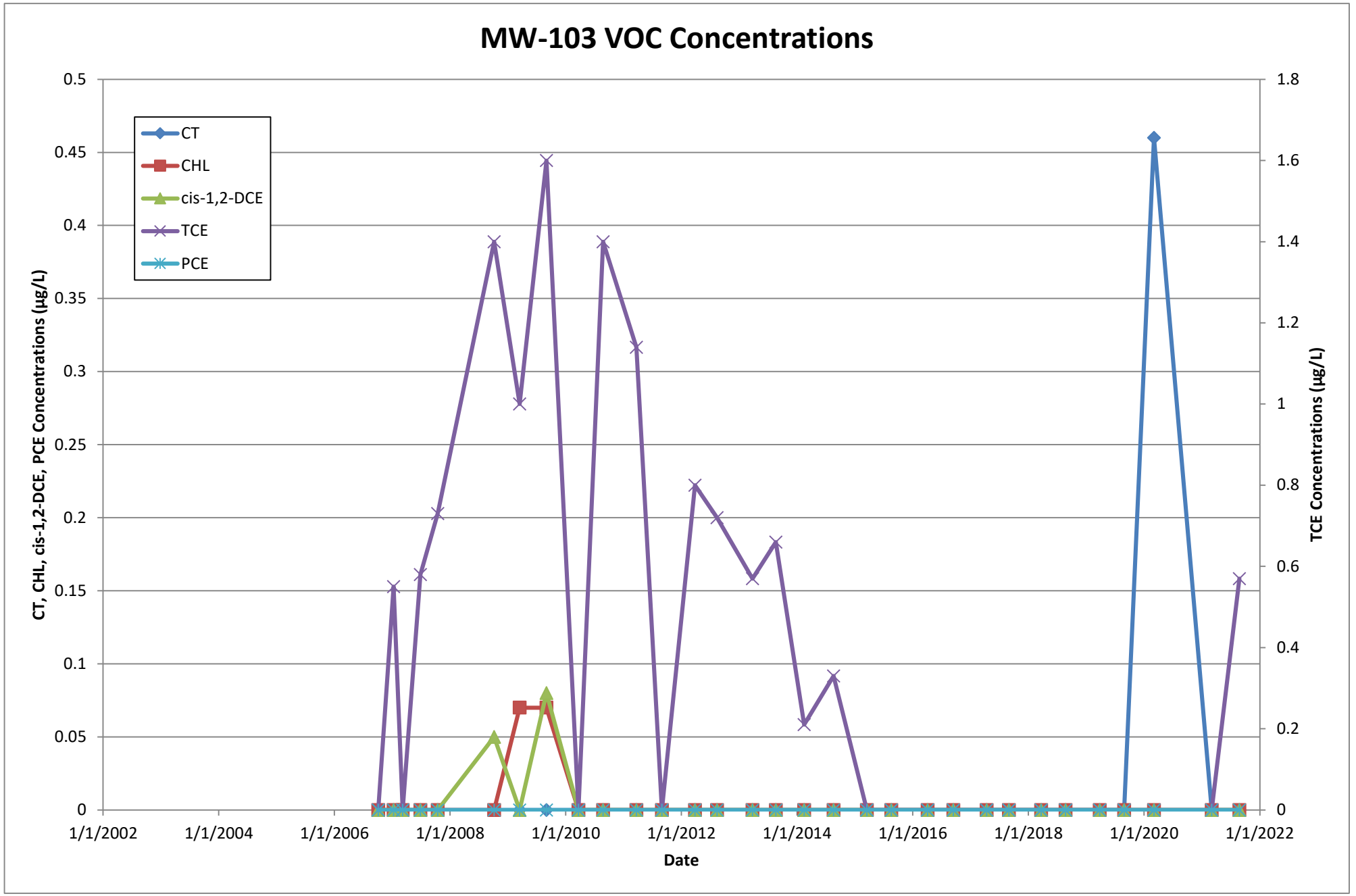

MW-30 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
9
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

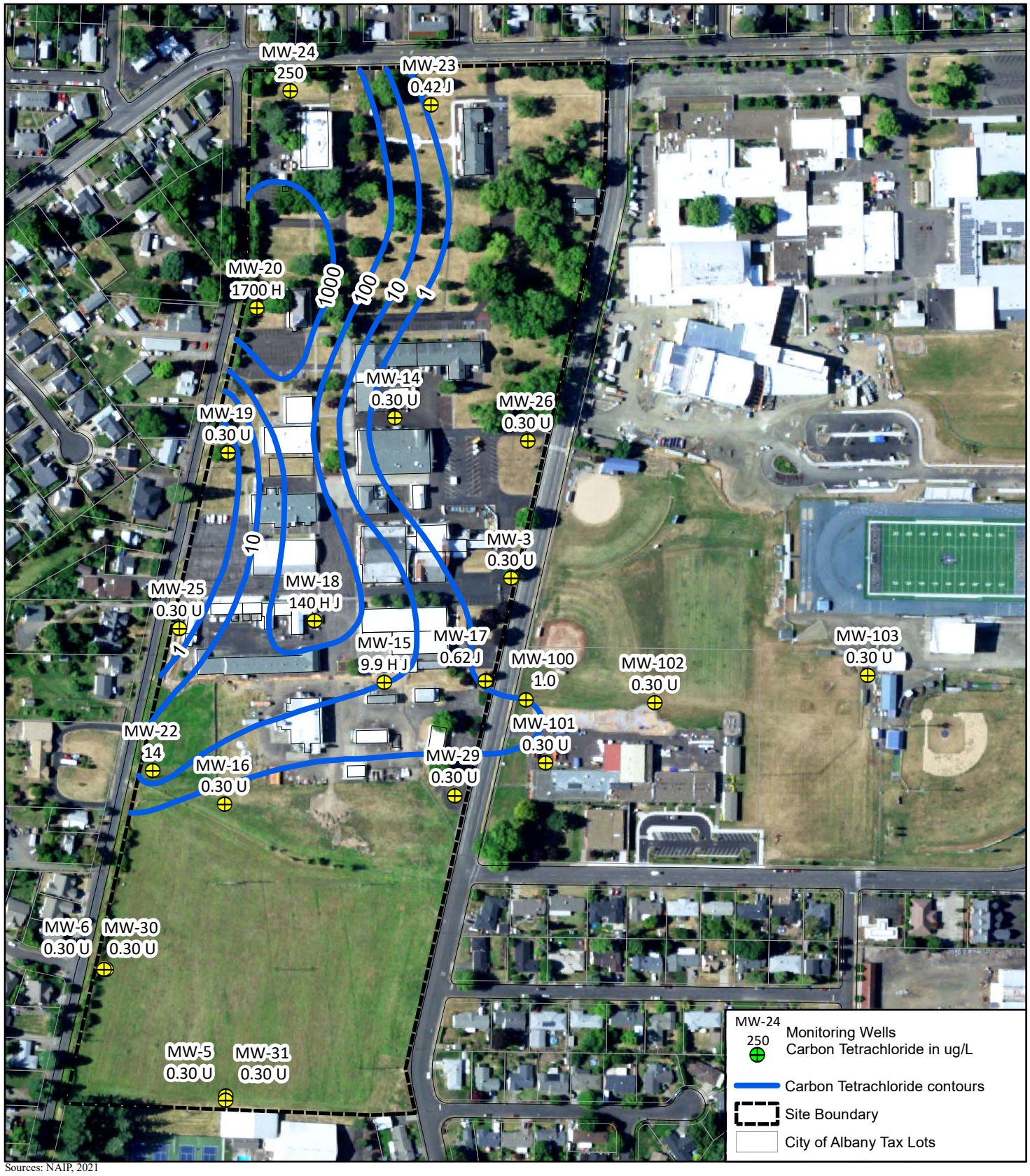

MW-31 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date


MW-100 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
2
4
6
8
10
12
14
0
100
200
300
400
500
600
700
800
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022


MW-101 VOC Concentrations
2.5
2
1.5
1
0.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date


MW-102 VOC Concentrations
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
CT
CHL
cis-1,2-DCE
TCE
PCE
3
2.5
2
1.5
1
0.5
0
200
180
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022


MW-103 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022



Sources: NAIP, 2021
Albany GIS, 2010.

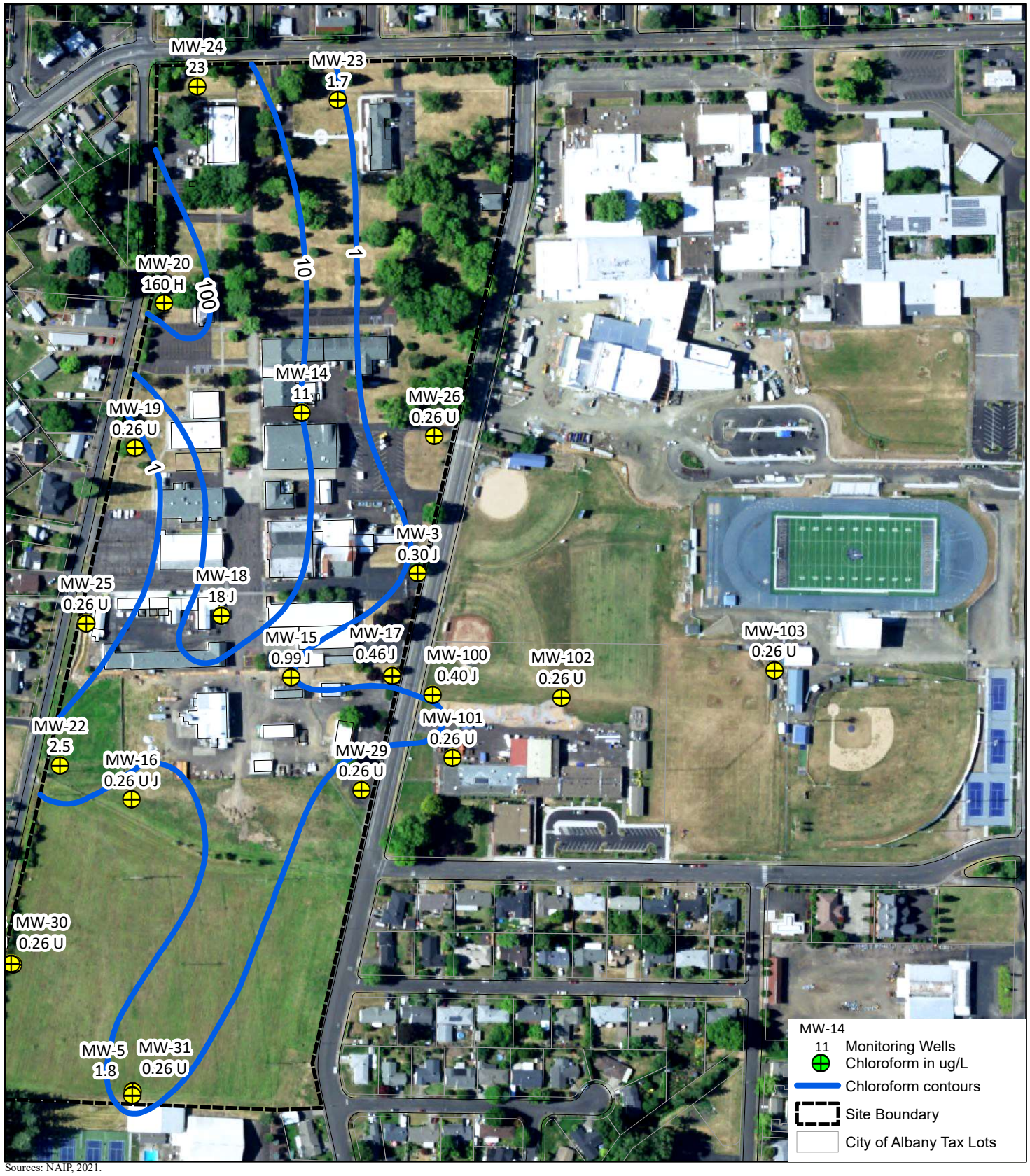
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 7



Sources: NAIP, 2021.
Albany GIS, 2010.

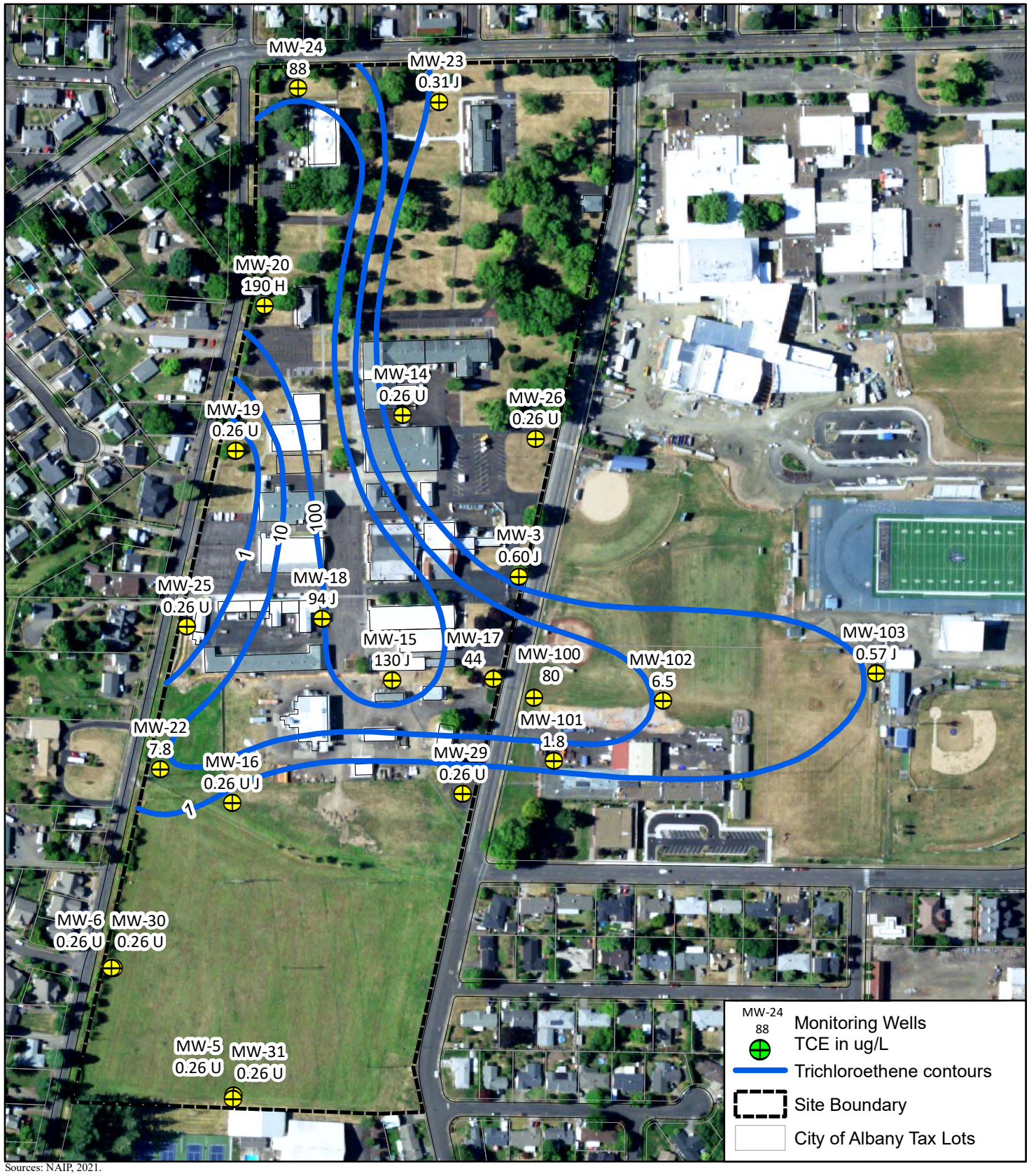
150 75 0 150 300
Feet

CONCENTRATION OF CHLOROFORM IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 8



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TRICHLOROETHENE IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 9



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TETRACHLOROETHENE IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 10



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE PERCHED AQUIFER AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 11



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF CIS 1,2-DCE IN THE GRAVEL AQUIFER, AUGUST 2021

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2021

FIGURE 12

Appendix A.
Monitoring Well Sampling Field Logs

DAY1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-1

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 62°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 21.78 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1445 **End Purge Time:** 1445

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

PURGING VALUES

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
0	0		21.78							

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): _____

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: _____

Sample Start Time: **End SampleTime:**

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-3

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Breezy, Temp. 55°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 13.84' (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0950 **End Purge Time:** 1010

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		13.87	8.82	19.8	0.267	15.9	10.61	137	
1	5		13.87	8.63	19.9	0.238	12.4	7.21	139	
2	10		13.86	8.52	19.9	0.271	10.6	7.12	141	
3	15		13.86	8.42	19.9	0.274	8.7	7.09	143	
4	20		13.86	8.40	19.7	0.272	7.2	7.07	144	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW3-082321 1015 08/23/21

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1015 **End SampleTime:** 1025

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-4

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 72°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 9.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1535 **End Purge Time:** 1600

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

PURGING VALUES

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
0	0		9.00	7.25	21.8	0.385	0.3	0.90	48	
1	5		9.00	7.21	21.5	0.384	1.0	0.80	49	
2	10		9.00	7.04	22.5	0.383	1.1	0.54	52	
3	15		9.00	7.03	22.6	0.383	0.9	0.54	52	
4	20		9.00	7.02	22.7	0.383	1.0	0.54	52	
5	25		9.00	7.02	22.7	0.383	1.2	0.52	54	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW4-082321 08/23/21 1605

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1605 **End SampleTime:** 1610

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-5

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Mild, Temp. 62°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: ~~Sun~~ 17.76 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0955 **End Purge Time:** 1020

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		17.80	7.67	16.6	0.364	8.2	3.48	21	
1	5		17.80	7.64	16.8	0.361	7.9	2.56	29	
2	10		17.80	7.45	16.8	0.354	7.4	1.54	43	
3	15		17.80	7.22	16.9	0.353	6.1	1.00	54	
4	20		17.80	7.20	16.8	0.357	5.9	0.94	58	
5	25		17.80	7.17	16.8	0.354	5.2	0.90	59	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW5-082521 082521 1025

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1025 **End SampleTime:** 1030

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-6

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: SUNNY, COOL, TEMP. 57°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 20.07 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, RXI-PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0750 **End Purge Time:** 0815

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		20.12	7.76	14.3	0.144	22.0	3.06	158	
1	5		20.12	7.64	14.1	0.151	15.9	3.02	163	
2	10		20.12	7.52	14.1	0.154	9.6	2.97	169	
3	15		20.11	7.20	13.9	0.161	2.9	2.95	170	
4	20		20.11	7.19	13.9	0.163	2.2	2.92	166	
5	25		20.11	7.18	13.9	0.165	2.0	2.90	167	

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW6-082521 08/25/21 0820

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 0820 **End SampleTime:** 0825

COMMENTS:

PID: 0.0 ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-7

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Breezy, Warm. Temp. 74°F **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 10.48 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: _____

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1325 **End Purge Time:** 1345

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		10.52	7.20	17.2	0.299	9.6	2.87	133	
1	5		10.52	7.08	18.4	0.294	9.0	2.12	135	
2	10		10.52	6.79	18.4	0.291	6.1	2.10	138	
3	15		10.52	6.76	18.2	0.291	5.9	2.08	138	
4	20		10.52	6.74	18.2	0.291	5.1	2.05	140	

Dave Hreha 08/26/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW7-082621 08/26/21 1350

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1350 **End SampleTime:** 1355

COMMENTS:

PID: 0.0ppm

DAV2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-8

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. 50°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 15.76 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0755 **End Purge Time:** 0820

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		15.80	7.70	14.5	0.196	11.7	2.70	131	
1	5		15.80	7.53	14.5	0.196	8.8	1.84	138	
2	10		15.80	7.29	14.8	0.195	2.8	1.50	143	
3	15		15.80	7.17	14.8	0.194	2.5	1.30	144	
4	20		15.80	7.16	14.8	0.194	2.3	1.25	144	
5	25		15.80	7.14	14.8	0.194	2.0	1.23	144	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW8-082421 08/24/21 0825

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 0825 **End SampleTime:** 0830

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-9

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. 55°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.61 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0930 **End Purge Time:** 0950

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.63	6.97	15.3	0.214	1.4	2.54	135	
1	5		14.63	6.95	15.4	0.218	1.0	2.50	135	
2	10		14.63	6.89	16.1	0.227	0.7	2.52	132	
3	15		14.62	6.87	16.4	0.228	0.7	2.56	129	
4	20		14.62	6.88	16.5	0.230	0.7	2.59	131	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW9-082421 08/24/21 0955

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 0955 **End SampleTime:** 1000

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-10

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 72°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 13.05 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1235 **End Purge Time:** 1255

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		13.05	7.03	21.2	0.134	8.1	3.28	120	
1	5		13.05	6.82	21.0	0.137	9.1	1.74	130	
2	10		13.05	6.64	21.0	0.136	9.4	1.37	132	
3	15		13.05	6.61	21.1	0.132	9.5	1.40	132	
4	20		13.05	6.60	21.1	0.133	10.0	1.40	133	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW10-082421 08/24/21 1300

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1300 **End SampleTime:** 1305

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-11

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp. 66 °F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 15.44 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1105 **End Purge Time:** 1130

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		15.51	7.07	19.5	0.132	116	1.34	143	
1	5		15.51	6.87	18.8	0.138	117	1.20	144	
2	10		15.51	6.76	18.6	0.141	110	1.13	142	
3	15		15.51	6.33	18.0	0.153	75	1.04	90	
4	20		15.51	6.30	18.0	0.153	70	1.00	86	
5	25		15.51	6.29	17.9	0.156	41.4	0.98	84	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW11-082521 08/25/21 1135

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: _____

Sample Start Time: 1135 **End SampleTime:** 1140

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-13

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 58°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 17.37 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RKI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1310 **End Purge Time:** 1330

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		17.41	7.30	23.4	0.184	2.1	2.41	130	
1	5		17.39	7.26	22.8	0.185	2.0	2.33	131	
2	10		17.39	7.22	22.7	0.185	2.1	2.07	132	
3	15		17.38	7.20	22.5	0.183	1.9	2.05	132	
4	20		17.38	7.21	22.4	0.182	1.8	2.00	132	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW13-082321 1335 08/23/21

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1335 **End SampleTime:** 1345

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-14

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Breezy, Temp. 53°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.25 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1115 **End Purge Time:** 1140

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.29	7.72	20.8	0.166	11.6	3.36	118	
1	5		14.29	7.68	20.4	0.164	10.1	3.02	120	
2	10		14.29	7.65	20.0	0.163	8.6	3.01	121	
3	15		14.29	7.62	19.8	0.162	8.9	3.04	122	
4	20		14.29	7.60	19.6	0.162	8.5	3.02	122	
5	25		14.29	7.59	19.7	0.160	8.6	3.03	124	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW14-082321 8/23/21 1145

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1145 **End SampleTime:** 1155

COMMENTS:

PID: 0.0 ppm

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 4

WELL NO.: MW-15

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Drizzle, Temp. 62°F **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 19.60 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI- PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1020 **End Purge Time:** 1045

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		19.60	7.53	18.3	0.446	6.0	3.35	134	
1	5		19.60	7.49	18.4	0.471	6.9	2.73	136	
2	10		19.60	7.37	18.2	0.451	7.1	2.63	133	
3	15		19.60	7.35	18.6	0.400	7.3	2.47	127	
4	20		19.60	7.33	18.6	0.398	7.1	2.43	124	
5	25		19.60	7.33	18.5	0.397	7.2	2.40	123	

Dave Hreha 08/26/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW15-082621 08/26/21 1050

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: _____

Sample Start Time: 1050 **End SampleTime:** 1055

COMMENTS:

PID: 0.6ppm

GROUNDWATER SAMPLE COLLECTION RECORD

DAY 4

WELL NO.: MW-16

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Breezy, Warm, Temp. 72°F **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.83 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI-PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1235 **End Purge Time:** 1300

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.85	7.43	24.7	0.345	230	1.26	122	
1	5		14.85	7.30	23.6	0.354	211	1.08	121	
2	10		14.85	7.00	17.6	0.354	204	0.15	114	
3	15		14.84	6.98	17.3	0.355	195	0.11	114	
4	20		14.84	6.97	17.1	0.355	191	0.06	114	
5	25		14.84	6.97	17.1	0.355	187	0.03	114	

Dave Hreha 08/26/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW16-082621 08/26/21 1305

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1305 **End SampleTime:** 1310

COMMENTS:

PID: 0.0 ppm

DAY1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-17

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Breezy, Cool, Temp. 50°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 13.91 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0850 **End Purge Time:** 0910

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		13.91	12.45	16.5	0.336	3.5	15.70	41	
1	5		13.91	11.33	16.3	0.332	3.1	15.29	51	
2	10		13.91	10.97	15.3	0.330	2.7	15.10	53	
3	15		13.91	10.96	15.3	0.330	2.2	15.12	56	
4	20		13.91	10.96	15.2	0.330	2.1	15.11	55	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW17-082321 08/23/21 0910

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 0910 **End SampleTime:** 0915

COMMENTS:

PID: 0.0 ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-18

Project No.: | **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 | **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. 61°F | **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 20.35 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, RXI PID

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 0920 **End Purge Time:** 0940

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		20.38	7.54	17.8	0.411	5.1	3.24	141	
1	5		20.38	7.42	17.4	0.417	0.9	1.86	141	
2	10		20.38	7.34	17.3	0.430	0.0	1.78	139	
3	15		20.39	7.32	17.3	0.434	0.0	1.78	138	
4	20		20.38	7.31	17.2	0.434	0.0	1.76	138	

Dave Hreha 08/26/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW18-082621 08/26/21 0945

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 0945 **End SampleTime:** 0950

COMMENTS:

PID: 0.0ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-19

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. 56°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 20.94 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, RxI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1000 **End Purge Time:** 1025

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		21.24	7.11	16.7	0.153	2.7	0.78	126	
1	5		21.26	7.05	16.2	0.152	2.1	0.39	128	
2	10		21.26	7.01	15.8	0.151	0.7	0.15	130	
3	15		21.28	6.74	15.3	0.148	0.0	0.00	131	
4	20		21.28	6.71	15.2	0.148	0.0	0.00	131	
5	25		21.28	6.72	15.2	0.148	0.0	0.00	131	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW19-082421 08/24/21 1030

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1030 **End SampleTime:** 1035

COMMENTS:

PID: 0.0ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-20

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 68°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 23.75 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, PXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1310 **End Purge Time:** 1330

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		23.75	6.82	23.0	0.362	1.19	7.93	119	
1	5		23.75	7.01	22.9	0.362	1.20	7.25	113	
2	10		23.75	7.06	22.8	0.362	1.21	7.22	111	
3	15		23.75	7.06	22.4	0.360	1.20	7.19	107	
4	20		23.75	7.04	22.2	0.358	1.18	7.15	103	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW20-082421 08/24/21 1335

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.: MW20-082421 DUPLICATE, MW20-082421 MS, MW20-082421-MSD

Sample Start Time: 1335 **End SampleTime:** 1345

COMMENTS:

PID: 0.0 ppm

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-21

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 75°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.20 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, PXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1510 **End Purge Time:** 1510

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.20							

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): _____

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: _____

Sample Start Time: **End SampleTime:**

COMMENTS:

PID: NA

DAY2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-22

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 75°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.14 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, PXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1430 **End Purge Time:** 1450

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.14	7.46	23.4	0.277	8.5	1.04	6	
1	5		14.16	7.44	23.7	0.273	9.0	0.72	-8	
2	10		14.16	7.44	23.6	0.274	6.9	0.55	-8	
3	15		14.16	7.42	23.2	0.278	4.6	0.48	-12	
4	20		14.16	7.42	23.2	0.281	3.2	0.46	-14	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW22-082421 082421 1455

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1455 **End SampleTime:** 1505

COMMENTS:

PID: 0.0 ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-23

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Breezy, Warm, Temp. **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 21.56 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1400 **End Purge Time:** 1425

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		21.56	7.36	21.6	0.309	3.1	7.22	116	
1	5		21.56	7.38	20.8	0.316	2.6	7.14	117	
2	10		21.56	7.41	20.5	0.320	2.1	7.02	118	
3	15		21.56	7.54	19.7	0.325	2.8	6.72	120	
4	20		21.56	7.55	19.6	0.327	2.8	6.69	121	
5	25		21.56	7.56	19.6	0.328	2.9	6.67	121	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW23-082321 1430 08/23/21

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1430 **End SampleTime:** 1440

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-24

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp. 68°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 21.31 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1145 **End Purge Time:** 1210

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (ms/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		21.34	6.85	19.7	0.312	6.9	2.38	-9	
1	5		21.34	6.92	19.2	0.310	4.7	2.30	-14	
2	10		21.32	6.99	18.8	0.311	5.0	1.76	-15	
3	15		21.32	7.12	18.6	0.314	6.2	1.72	-13	
4	20		21.32	7.14	18.5	0.316	6.1	1.73	-11	
5	25		21.32	7.16	18.5	0.318	6.0	1.71	-10	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pump

Sample I.D. (Name, Date, Time): MW24-082521 08/25/21 1215

Sample Analytical Parameters/Method (VOCs)Method 8260B,(Metals)Methods 200.8,6010B&7470A

QA/QC Sample I.D.:

Sample Start Time: 1215 **End SampleTime:** 1225

COMMENTS:

PID: 0.0 ppm

DAY 2

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-25

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Temp. 52°F **Sampling Date:** 08/24/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 18.15 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0830 **End Purge Time:** 0850

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		18.19	7.20	14.8	0.201	11.8	4.70	136	
1	5		18.19	7.17	14.8	0.201	7.6	3.19	139	
2	10		18.17	7.07	14.7	0.201	3.3	1.55	142	
3	15		18.17	7.04	14.7	0.201	2.6	1.53	142	
4	20		18.17	7.04	14.7	0.201	2.7	1.50	142	

Dave Hreha 8/24/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW25-082421 8/24/21 0855

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 0855 **End SampleTime:** 0900

COMMENTS:

PID: 0.0ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-26

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Cool, Breezy, Temp. 53°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.35 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1035 **End Purge Time:** 1055

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.35	7.88	21.3	0.270	32.4	2.23	125	
1	5		14.35	7.82	21.4	0.271	25.6	1.47	127	
2	10		14.35	7.59	21.3	0.279	16.6	0.99	136	
3	15		14.38	7.54	21.1	0.281	6.8	0.94	134	
4	20		14.38	7.52	20.8	0.284	5.5	0.90	132	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW26-082321 1105 08/23/21

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1105 **End SampleTime:** 1110

COMMENTS:

PID: 0.0ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-27

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Light Rain, Cool, Temp. 62°F **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.37 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI-PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0955 **End Purge Time:** 1000

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.41	7.39	19.3	0.289	5.6	6.08	152	
1	5		14.47	7.38	19.3	0.291	6.3	6.11	155	

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW27-082621 082621 1000

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1000 **End SampleTime:** 1005

COMMENTS: Insufficent Water In Well To Do Readings. Sampled With One Initial Reading And Three Consecutive Reading.

PID: 6.0ppm

DAY 4

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-28

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Cloudy, Cool, Temp. 61°F **Sampling Date:** 08/26/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 6.62 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, RAE PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0835 **End Purge Time:** 0900

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		7.71	8.28	19.0	0.131	8.2	5.19	108	
1	5		7.71	8.20	19.1	0.131	7.5	4.97	113	
2	10		7.71	8.12	19.3	0.130	6.8	4.68	118	
3	15		7.71	7.94	19.4	0.126	6.7	4.10	124	
4	20		7.71	7.93	19.4	0.126	6.4	4.10	125	
5	25		7.71	7.90	19.4	0.125	6.3	4.11	126	

Dave Hreha 08/26/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW28-082621 08/26/21 0905

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: MW28-082621 DUPLICATE, MW28-082621 MS, MW28-082621 MSD

Sample Start Time: 0905 **End SampleTime:** 0915

COMMENTS:

PID: 0.0ppm

DAY 1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-29

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Breezy, Temp. 65°F **Sampling Date:** 08/23/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 15.56 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1500 **End Purge Time:** 1525

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		15.59	7.48	24.4	0.509	24.1	1.05	-103	
1	5		15.56	7.50	24.4	0.513	23.6	1.03	-110	
2	10		15.58	7.52	24.2	0.527	15.5	1.01	-138	
3	15		15.61	7.52	24.1	0.529	15.3	0.98	-141	
4	20		15.62	7.52	24.1	0.529	15.0	0.96	-141	
5	25		15.60	7.51	24.0	0.530	14.9	0.94	-143	

Dave Hreha 8/23/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW29-082321 | 08/23/21 1530

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1530 **End SampleTime:** 1535

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-30

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: SUNNY, COOL, TEMP. 57°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 18.04 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: HORIBA U-52, PXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0835 **End Purge Time:** 0900

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		18.86	6.92	15.5	0.347	11.0	2.73	-36	
1	5		18.89	7.02	16.0	0.343	11.3	1.49	-66	
2	10		18.84	7.18	16.5	0.344	10.6	1.08	-81	
3	15		18.84	7.31	17.0	0.349	8.5	1.06	-72	
4	20		18.84	7.35	17.1	0.351	8.3	1.05	-79	
5	25		18.84	7.35	17.2	0.352	8.1	1.03	-81	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW30-082521 082521 0905

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 0905 **End SampleTime:** 0910

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-31

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Breezy, Cool, Temp. 60°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 16.28 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0920 **End Purge Time:** 0940

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		16.28	7.77	17.2	0.392	0.0	0.67	-80	
1	5		16.28	7.76	17.2	0.394	0.0	0.46	-95	
2	10		16.28	7.76	17.0	0.397	0.0	0.27	-109	
3	15		16.28	7.73	16.8	0.404	0.0	0.0	-111	
4	20		16.28	7.72	16.8	0.401	0.0	0.0	-114	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW31-082521 08/25/21 0945

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 0945 **End SampleTime:** 0950

COMMENTS:

PID: 0.0 ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-100

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp. 77°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 14.03 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1425 **End Purge Time:** 1445

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		14.05	7.55	22.9	0.498	135	1.20	95	
1	5		14.05	7.52	22.9	0.494	130	1.14	98	
2	10		14.05	7.44	23.9	0.519	108	1.09	97	
3	15		14.05	7.42	23.8	0.521	111	1.05	98	
4	20		14.05	7.41	23.7	0.522	113	1.02	96	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW100-082521 08/25/21 1450

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: **End SampleTime:** 1455

COMMENTS: 1450

PID: 0.0ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-101

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp 75°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 15.07 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1345 **End Purge Time:** 1405

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		15.09	7.37	19.9	0.437	3.0	2.72	87	
1	5		15.09	7.38	19.7	0.437	2.4	2.20	87	
2	10		15.07	7.39	19.6	0.438	1.6	2.00	86	
3	15		15.07	7.40	19.6	0.438	1.2	1.76	85	
4	20		15.07	7.40	19.6	0.437	1.0	1.62	83	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW101-082521 08/25/21 1410

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: _____

Sample Start Time: 1410 **End SampleTime:** 1415

COMMENTS:

PID: 0.0ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-102

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp. 78°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 12.38 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1505 **End Purge Time:** 1525

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		12.42	7.92	23.8	0.374	6.9	1.49	84	
1	5		12.42	7.92	23.0	0.348	6.7	1.32	87	
2	10		12.41	7.94	21.2	0.307	5.2	1.06	89	
3	15		12.41	7.92	21.2	0.304	3.1	1.03	88	
4	20		12.41	7.91	21.1	0.305	2.7	1.01	89	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW102-082521 08/25/21 1530

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.:

Sample Start Time: 1530 **End SampleTime:** 1535

COMMENTS:

PID: 0.0ppm

DAY 3

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-103

Project No.: _____ **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2021 **Project Location:** Albany, OR

Weather Conditions: Sunny, Warm, Temp. 79°F **Sampling Date:** 08/25/21

WATER LEVEL DATA (measured from top of inner well casing)

Depth to Water: 10.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: Horiba U-52, RXI PID

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1540 **End Purge Time:** 1600

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
(2)	0.163
4	0.653
6	1.470

Read No.	Lapse Time (min.)	Purge Rate (mls/min)	DTW (ft.)	pH (s.u.) (±.1S.U.)	Temp. (s.u.) (°C)	Conductivity (us/cm) (±3%)	Turbidity (NTU's)	D.O (mg/L) (± > 10%)	ORP (mV) (± 10 mV)	Comments
PURGING VALUES										
0	0		10.06	7.78	22.8	0.301	5.0	3.86	130	
1	5		10.06	7.75	23.2	0.302	5.5	3.41	129	
2	10		10.06	7.68	23.3	0.307	4.4	3.21	125	
3	15		10.06	7.65	23.3	0.310	3.6	3.19	126	
4	20		10.06	7.65	23.2	0.311	3.2	3.20	127	

Dave Hreha 08/25/21

SAMPLE COLLECTION DATA Sampled by: Dave Hreha

Sampling Method(s) & Equip: Low Flow using QED Bladder Pumps

Sample I.D. (Name, Date, Time): MW103-082521 08/25/21 1605

Sample Analytical Parameters/Method: (VOCs)Method 8260B

QA/QC Sample I.D.: _____

Sample Start Time: 1605 **End SampleTime:** 1610

COMMENTS:

PID: 0.0ppm

Appendix B.
Test America Laboratories
Analytical Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-126312-1
Client Project/Site: Dept of Energy- NETL - Albany, OR
Revision: 1

For:
WE2 Support Services
1450 Queen Avenue SW
Albany, Oregon 97321

Attn: Mark Thomas

Authorized for release by:
10/4/2021 2:18:39 PM

Jill Colussy, Project Manager I
(412)963-2444
Jill.Colussy@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416

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Job ID: 180-126312-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-126312-1 RE

Note
This report has been revised. Lead, Manganese, Nickel, Silver, Vanadium, Thallium, and Zinc are now reported in the Metals list.

Receipt
The samples were received on 8/28/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -1.1° C.

GC/MS VOA
Sample MW13-082321 (180-126312-5) had surrogates recover above the control limits. This sample was non-detect for all target compounds. All data was reported.

Due to the concentration of target compounds detected, samples MW20-082421 (180-126312-14), MW20-082421 (180-126312-14[MS]), MW20-082421 (180-126312-14[MSD]) and MW20-082421-DUPLICATE (180-126312-15) were analyzed at a dilution. Elevated reporting limits (RLs) are provided. These dilutions were done outside of the holding time due to instrument issues. The result are flagged with an "H" qualifier.

Due to the concentration of target compounds detected, sample MW24-082521 (180-126312-22) was analyzed at a dilution. Elevated reporting limits (RLs) are provided.

Samples MW28-082621 (180-126312-27), MW28-082621 (180-126312-27[MS]), MW28-082621 (180-126312-27[MSD]), MW28-082621 DUPLICATE (180-126312-28), MW18-082621 (180-126312-29), MW27-082621 (180-126312-30), MW15-082621 (180-126312-31), MW16-082621 (180-126312-32), MW-7-082621 (180-126312-33) and TRIP BLANK (180-126312-34) were re-analyzed outside of the holding time due to low recoveries in the laboratory control standards. The results are flagged with an "H" qualifier.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-366920 recovered outside control limits for the following analytes: Chloromethane, Dichlorodifluoromethane and Vinyl Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-366920 was outside control limits for the following analytes: 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,2-Dichloropropane, Benzene, Chlorobenzene, Dichlorobromomethane, Ethylbenzene, m-Xylene & p-Xylene, n-Butylbenzene, sec-Butylbenzene, Toluene, and Trichloroethene.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-367090 recovered outside control limits for the following analytes: 1,3-Dichlorobenzene, Bromoform, Dichlorodifluoromethane, Chloromethane and Vinyl Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-367095 recovered outside control limits for the following analytes: Bromoform, Bromomethane, Carbon tetrachloride, Chloroethane, Chloromethane, Dichlorodifluoromethane and Vinyl Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-367166 recovered outside control limits for the following analytes: Iodomethane, Dichlorodifluoromethane, Chloromethane and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-367166 was outside control limits for the following analytes: Benzene, Toluene and Chloroform.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical

Job ID: 180-126312-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

batch 580-367251 was outside control limits for the following analytes: Trichloroethene.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-367311 recovered outside control limits for the following analytes: Carbon tetrachloride, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, Chlorodibromomethane, Dichlorodifluoromethane, Chloromethane, Bromoform, 1,1,1,2-Tetrachloroethane and Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The relative percent difference between the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-367311 was outside control limits for several analytes.

The continuing calibration verification (CCV) associated with batch 580-366920 recovered above the upper control limit for 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, Bromoform, Bromomethane, Carbon tetrachloride, Chlorodibromomethane, Chloroethane, Chloromethane, Dichlorodifluoromethane and Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-367095 recovered above the upper control limit for 1,1-Dichloroethene, 1,3-Dichlorobenzene, Bromoform, Bromomethane, Carbon tetrachloride, Chloroethane, Chloromethane, Dichlorodifluoromethane and Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-367090 recovered above the upper control limit for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 2,2-Dichloropropane, Bromoform, Bromomethane, Carbon tetrachloride, Chloromethane, Dichlorodifluoromethane, Hexachlorobutadiene, Napthalene and Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The CCV for analytical batch 580-367166 recovered outside control limits for the following analyte(s): Naphthalene. Naphthalene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 580-367166 recovered outside acceptance criteria, low biased, for 1,2,3-Trichlorobenzene, and n-Butanol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-367166 recovered above the upper control limit for Trichlorofluoromethane, Vinyl chloride, Dichlorodifluoromethane, Chloromethane, Bromoform and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-367311 recovered above the upper control limit for Trichlorofluoromethane, Carbon tetrachloride, Vinyl chloride, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, Dichlorodifluoromethane, Chloromethane, Tetrachloroethene and Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

Definitions/Glossary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: WE2 Support Services
Job ID: 180-126312-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-22

Sample Summary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-126312-1	MW17-082321	Water	08/23/21 09:10	08/28/21 09:45
180-126312-2	MW3-082321	Water	08/23/21 10:15	08/28/21 09:45
180-126312-3	MW26-082321	Water	08/23/21 11:05	08/28/21 09:45
180-126312-4	MW14-082321	Water	08/23/21 11:45	08/28/21 09:45
180-126312-5	MW13-082321	Water	08/23/21 13:35	08/28/21 09:45
180-126312-6	MW23-082321	Water	08/23/21 14:30	08/28/21 09:45
180-126312-7	MW29-082321	Water	08/23/21 15:30	08/28/21 09:45
180-126312-8	MW4-082321	Water	08/23/21 16:05	08/28/21 09:45
180-126312-9	MW8-082421	Water	08/24/21 08:25	08/28/21 09:45
180-126312-10	MW25-082421	Water	08/24/21 08:55	08/28/21 09:45
180-126312-11	MW9-082421	Water	08/24/21 09:55	08/28/21 09:45
180-126312-12	MW19-082421	Water	08/24/21 10:30	08/28/21 09:45
180-126312-13	MW10-082421	Water	08/24/21 13:00	08/28/21 09:45
180-126312-14	MW20-082421	Water	08/24/21 13:35	08/28/21 09:45
180-126312-15	MW20-082421-DUPLICATE	Water	08/24/21 13:35	08/28/21 09:45
180-126312-16	MW22-082421	Water	08/24/21 14:55	08/28/21 09:45
180-126312-17	MW6-082521	Water	08/25/21 08:20	08/28/21 09:45
180-126312-18	MW30-082521	Water	08/25/21 09:05	08/28/21 09:45
180-126312-19	MW31-082521	Water	08/25/21 09:45	08/28/21 09:45
180-126312-20	MW5-082521	Water	08/25/21 10:25	08/28/21 09:45
180-126312-21	MW11-082521	Water	08/25/21 11:35	08/28/21 09:45
180-126312-22	MW24-082521	Water	08/25/21 12:15	08/28/21 09:45
180-126312-23	MW101-082521	Water	08/25/21 14:10	08/28/21 09:45
180-126312-24	MW100-082521	Water	08/25/21 14:50	08/28/21 09:45
180-126312-25	MW102-082521	Water	08/25/21 15:30	08/28/21 09:45
180-126312-26	MW103-082521	Water	08/25/21 16:05	08/28/21 09:45
180-126312-27	MW28-082621	Water	08/26/21 09:05	08/28/21 09:45
180-126312-28	MW28-082621 DUPLICATE	Water	08/26/21 09:05	08/28/21 09:45
180-126312-29	MW18-082621	Water	08/26/21 09:45	08/28/21 09:45
180-126312-30	MW27-082621	Water	08/26/21 10:00	08/28/21 09:45
180-126312-31	MW15-082621	Water	08/26/21 10:50	08/28/21 09:45
180-126312-32	MW16-082621	Water	08/26/21 13:05	08/28/21 09:45
180-126312-33	MW-7-082621	Water	08/26/21 13:50	08/28/21 09:45
180-126312-34	TRIP BLANK	Water	08/26/21 00:00	08/28/21 09:45

Method Summary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	FGS SEA
200.7 Rev 4.4	Metals (ICP)	40CFR136A	FGS SEA
200.8	Metals (ICP/MS)	EPA	FGS SEA
245.1	Mercury (CVAA)	EPA	FGS SEA
200.7	Preparation, Total Metals	EPA	FGS SEA
200.8	Preparation, Total Metals	EPA	FGS SEA
245.1	Preparation, Mercury	EPA	FGS SEA
5030B	Purge and Trap	SW846	FGS SEA

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-126312-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW17-082321
Lab Sample ID: 180-126312-1
Date Collected: 08/23/21 09:10
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 20:27	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.7			50 mL	50 mL	366730	09/01/21 12:16	A1T	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 13:28	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.7			50 mL	50 mL	366730	09/01/21 12:16	A1T	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 19:52	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	366566	08/31/21 05:45	C1K	FGS SEA
Total/NA	Analysis	245.1		1			366692	08/31/21 12:04	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW3-082321
Lab Sample ID: 180-126312-2
Date Collected: 08/23/21 10:15
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 20:52	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.7			50 mL	50 mL	366730	09/01/21 12:16	A1T	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 13:31	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.7			50 mL	50 mL	366730	09/01/21 12:16	A1T	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 19:55	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	366566	08/31/21 05:45	C1K	FGS SEA
Total/NA	Analysis	245.1		1			366692	08/31/21 12:06	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW26-082321
Lab Sample ID: 180-126312-3
Date Collected: 08/23/21 11:05
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 21:17	JSM	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW14-082321
Lab Sample ID: 180-126312-4
Date Collected: 08/23/21 11:45
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 21:41	JSM	FGS SEA
	Instrument ID: SEA102									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-126312-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW14-082321
Lab Sample ID: 180-126312-4
Date Collected: 08/23/21 11:45
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:32	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:27	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	366566	08/31/21 05:45	C1K	FGS SEA
Total/NA	Analysis	245.1		1			366692	08/31/21 12:08	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW13-082321
Lab Sample ID: 180-126312-5
Date Collected: 08/23/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 22:06	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:35	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:31	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	366566	08/31/21 05:45	C1K	FGS SEA
Total/NA	Analysis	245.1		1			366692	08/31/21 12:10	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW23-082321
Lab Sample ID: 180-126312-6
Date Collected: 08/23/21 14:30
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 22:30	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:39	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:35	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	366566	08/31/21 05:45	C1K	FGS SEA
Total/NA	Analysis	245.1		1			366692	08/31/21 12:13	C1K	FGS SEA
	Instrument ID: TAC103									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW29-082321
Date Collected: 08/23/21 15:30
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 22:55	JSM	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW4-082321
Date Collected: 08/23/21 16:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 23:20	JSM	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:42	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:39	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:39	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW8-082421
Date Collected: 08/24/21 08:25
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	366920	09/02/21 23:44	JSM	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW25-082421
Date Collected: 08/24/21 08:55
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367090	09/03/21 21:45	B1M	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW9-082421
Date Collected: 08/24/21 09:55
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367090	09/03/21 22:10	B1M	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW19-082421
Lab Sample ID: 180-126312-12
Date Collected: 08/24/21 10:30
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367090	09/03/21 22:35	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:45	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:42	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:41	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW10-082421
Lab Sample ID: 180-126312-13
Date Collected: 08/24/21 13:00
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367090	09/03/21 22:59	B1M	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW20-082421
Lab Sample ID: 180-126312-14
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367095	09/04/21 02:42	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	367251	09/09/21 02:13	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:07	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 22:47	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:25	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW20-082421-DUPLICATE
Lab Sample ID: 180-126312-15
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367095	09/04/21 02:18	B1M	FGS SEA
	Instrument ID: SEA102									

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-126312-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW20-082421-DUPLICATE
Lab Sample ID: 180-126312-15
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	50	5 mL	5 mL	367251	09/09/21 03:27	B1M	FGS SEA
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:48	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:46	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:43	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW22-082421
Lab Sample ID: 180-126312-16
Date Collected: 08/24/21 14:55
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367095	09/04/21 03:56	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:52	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:50	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:46	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW6-082521
Lab Sample ID: 180-126312-17
Date Collected: 08/25/21 08:20
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 15:55	TL1	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			366900	09/02/21 17:55	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366775	09/01/21 17:42	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367053	09/02/21 23:53	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:48	C1K	FGS SEA
	Instrument ID: TAC103									

Lab Chronicle

Client: WE2 Support Services
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Job ID: 180-126312-1

Client Sample ID: MW30-082521
Date Collected: 08/25/21 09:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 16:20	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW31-082521
Date Collected: 08/25/21 09:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 16:44	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW5-082521
Date Collected: 08/25/21 10:25
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 17:09	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW11-082521
Date Collected: 08/25/21 11:35
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 17:34	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW24-082521
Date Collected: 08/25/21 12:15
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 15:30	TL1	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	367166	09/08/21 18:48	TL1	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366895	09/02/21 19:50	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			367026	09/04/21 14:39	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366895	09/02/21 19:50	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367059	09/03/21 14:29	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:50	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW101-082521
Lab Sample ID: 180-126312-23
Date Collected: 08/25/21 14:10
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 15:06	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW100-082521
Lab Sample ID: 180-126312-24
Date Collected: 08/25/21 14:50
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 14:41	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW102-082521
Lab Sample ID: 180-126312-25
Date Collected: 08/25/21 15:30
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 14:17	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW103-082521
Lab Sample ID: 180-126312-26
Date Collected: 08/25/21 16:05
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367166	09/08/21 13:52	TL1	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW28-082621
Lab Sample ID: 180-126312-27
Date Collected: 08/26/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 13:41	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 11:33	CJ	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW28-082621 DUPLICATE
Lab Sample ID: 180-126312-28
Date Collected: 08/26/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 14:55	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 12:48	CJ	FGS SEA
	Instrument ID: SEA102									

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Client: WE2 Support Services
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Job ID: 180-126312-1

Client Sample ID: MW18-082621
Date Collected: 08/26/21 09:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 15:20	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 13:12	CJ	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			367026	09/04/21 12:14	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367059	09/03/21 13:49	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:52	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW27-082621
Date Collected: 08/26/21 10:00
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 15:45	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 13:37	CJ	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: MW15-082621
Date Collected: 08/26/21 10:50
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 16:09	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 14:02	CJ	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			367026	09/04/21 12:17	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367059	09/03/21 13:52	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:55	C1K	FGS SEA
	Instrument ID: TAC103									

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW16-082621

Lab Sample ID: 180-126312-32

Date Collected: 08/26/21 13:05
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 16:34	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 14:27	CJ	FGS SEA
	Instrument ID: SEA102									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.7 Rev 4.4		1			367026	09/04/21 12:20	C1K	FGS SEA
	Instrument ID: TAC047									
Total/NA	Prep	200.8			50 mL	50 mL	366774	09/01/21 17:40	TMH	FGS SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	367059	09/03/21 13:56	FCW	FGS SEA
	Instrument ID: TAC110									
Total/NA	Prep	245.1			50 mL	50 mL	367213	09/08/21 11:17	TMH	FGS SEA
Total/NA	Analysis	245.1		1			367303	09/08/21 16:57	C1K	FGS SEA
	Instrument ID: TAC103									

Client Sample ID: MW-7-082621

Lab Sample ID: 180-126312-33

Date Collected: 08/26/21 13:50
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 16:59	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 14:51	CJ	FGS SEA
	Instrument ID: SEA102									

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-126312-34

Date Collected: 08/26/21 00:00
Matrix: Water
Date Received: 08/28/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	367311	09/09/21 17:24	B1M	FGS SEA
	Instrument ID: SEA102									
Total/NA	Analysis	8260D	RA	1	5 mL	5 mL	367451	09/10/21 15:16	CJ	FGS SEA
	Instrument ID: SEA102									

Laboratory References:
FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Lab Chronicle

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Analyst References:

Lab: FGS SEA

Batch Type: Prep

A1T = Anthony Truong
C1K = Christine Knight
TMH = Tammy Hua

Batch Type: Analysis

B1M = Brady Mautz
C1K = Christine Knight
CJ = Charinporn Jantanu
FCW = Fred Woo
JSM = Justin McKell
TL1 = Thanyawan Limwiroj

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW17-082321
Date Collected: 08/23/21 09:10
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 20:27	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 20:27	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 20:27	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 20:27	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 20:27	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 20:27	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 20:27	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 20:27	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 20:27	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 20:27	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 20:27	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 20:27	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.35	ug/L			09/02/21 20:27	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 20:27	1
Chloroform	**0.46**	**J**	1.0	0.26	ug/L			09/02/21 20:27	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 20:27	1
Carbon tetrachloride	**0.62**	**J**	1.0	0.30	ug/L			09/02/21 20:27	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 20:27	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 20:27	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 20:27	1
Trichloroethene	**44**	***1**	1.0	0.26	ug/L			09/02/21 20:27	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 20:27	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 20:27	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 20:27	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 20:27	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 20:27	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 20:27	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 20:27	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 20:27	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 20:27	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 20:27	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 20:27	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 20:27	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 20:27	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 20:27	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 20:27	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 20:27	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 20:27	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 20:27	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 20:27	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 20:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 20:27	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 20:27	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 20:27	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 20:27	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 20:27	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 20:27	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 20:27	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 20:27	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW17-082321

Date Collected: 08/23/21 09:10
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 20:27	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 20:27	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 20:27	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 20:27	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 20:27	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 20:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 20:27	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 20:27	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 20:27	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 20:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/02/21 20:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/02/21 20:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/02/21 20:27*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/02/21 20:27*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.049**	**J**	0.50	0.042	mg/L		09/01/21 12:16	09/02/21 13:28	1
Calcium	**32**		0.50	0.034	mg/L		09/01/21 12:16	09/02/21 13:28	1
Iron	ND		0.50	0.061	mg/L		09/01/21 12:16	09/02/21 13:28	1
Magnesium	**17**		0.50	0.047	mg/L		09/01/21 12:16	09/02/21 13:28	1
Potassium	**1.0**	**J**	3.3	0.17	mg/L		09/01/21 12:16	09/02/21 13:28	1
Sodium	**14**		0.50	0.086	mg/L		09/01/21 12:16	09/02/21 13:28	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0021**	**B**	0.0010	0.00020	mg/L		09/01/21 12:16	09/02/21 19:52	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 12:16	09/02/21 19:52	1
Barium	**0.0055**	**B**	0.0012	0.00021	mg/L		09/01/21 12:16	09/02/21 19:52	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 12:16	09/02/21 19:52	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 12:16	09/02/21 19:52	1
Chromium	**0.00085**		0.00080	0.00017	mg/L		09/01/21 12:16	09/02/21 19:52	1
Cobalt	**0.00012**	**J**	0.00040	0.000039	mg/L		09/01/21 12:16	09/02/21 19:52	1
Copper	**0.0013**	**J**	0.0020	0.00060	mg/L		09/01/21 12:16	09/02/21 19:52	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 12:16	09/02/21 19:52	1
Manganese	**0.21**		0.0020	0.00046	mg/L		09/01/21 12:16	09/02/21 19:52	1
Nickel	**0.00066**	**J**	0.0030	0.00013	mg/L		09/01/21 12:16	09/02/21 19:52	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 12:16	09/02/21 19:52	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 12:16	09/02/21 19:52	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 12:16	09/02/21 19:52	1
Vanadium	**0.0084**		0.0040	0.00046	mg/L		09/01/21 12:16	09/02/21 19:52	1
Zinc	**0.0044**	**J**	0.0070	0.00093	mg/L		09/01/21 12:16	09/02/21 19:52	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 12:04	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW3-082321
Date Collected: 08/23/21 10:15
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 20:52	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 20:52	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 20:52	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 20:52	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 20:52	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 20:52	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 20:52	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 20:52	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 20:52	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 20:52	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 20:52	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 20:52	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 20:52	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 20:52	1
Chloroform	**0.30**	**J**	1.0	0.26	ug/L			09/02/21 20:52	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 20:52	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 20:52	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 20:52	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 20:52	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 20:52	1
Trichloroethene	**0.60**	**J *1**	1.0	0.26	ug/L			09/02/21 20:52	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 20:52	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 20:52	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 20:52	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 20:52	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 20:52	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 20:52	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 20:52	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 20:52	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 20:52	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 20:52	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 20:52	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 20:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 20:52	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 20:52	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 20:52	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 20:52	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 20:52	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 20:52	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 20:52	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 20:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 20:52	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 20:52	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 20:52	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 20:52	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 20:52	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 20:52	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 20:52	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 20:52	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW3-082321
Date Collected: 08/23/21 10:15
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 20:52	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 20:52	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 20:52	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 20:52	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 20:52	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 20:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 20:52	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 20:52	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 20:52	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 20:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/02/21 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/02/21 20:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/02/21 20:52*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/02/21 20:52*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.41**	**J**	0.50	0.042	mg/L		09/01/21 12:16	09/02/21 13:31	1
Calcium	**27**		0.50	0.034	mg/L		09/01/21 12:16	09/02/21 13:31	1
Iron	**0.77**		0.50	0.061	mg/L		09/01/21 12:16	09/02/21 13:31	1
Magnesium	**15**		0.50	0.047	mg/L		09/01/21 12:16	09/02/21 13:31	1
Potassium	**0.83**	**J**	3.3	0.17	mg/L		09/01/21 12:16	09/02/21 13:31	1
Sodium	**11**		0.50	0.086	mg/L		09/01/21 12:16	09/02/21 13:31	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00063**	**J B**	0.0010	0.00020	mg/L		09/01/21 12:16	09/02/21 19:55	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 12:16	09/02/21 19:55	1
Barium	**0.0090**	**B**	0.0012	0.00021	mg/L		09/01/21 12:16	09/02/21 19:55	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 12:16	09/02/21 19:55	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 12:16	09/02/21 19:55	1
Chromium	**0.0017**		0.00080	0.00017	mg/L		09/01/21 12:16	09/02/21 19:55	1
Cobalt	**0.00056**		0.00040	0.000039	mg/L		09/01/21 12:16	09/02/21 19:55	1
Copper	**0.0014**	**J**	0.0020	0.00060	mg/L		09/01/21 12:16	09/02/21 19:55	1
Lead	**0.00017**	**J**	0.00040	0.000040	mg/L		09/01/21 12:16	09/02/21 19:55	1
Manganese	**0.018**		0.0020	0.00046	mg/L		09/01/21 12:16	09/02/21 19:55	1
Nickel	**0.0010**	**J**	0.0030	0.00013	mg/L		09/01/21 12:16	09/02/21 19:55	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 12:16	09/02/21 19:55	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 12:16	09/02/21 19:55	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 12:16	09/02/21 19:55	1
Vanadium	**0.0099**		0.0040	0.00046	mg/L		09/01/21 12:16	09/02/21 19:55	1
Zinc	**0.0059**	**J**	0.0070	0.00093	mg/L		09/01/21 12:16	09/02/21 19:55	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 12:06	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW26-082321
Date Collected: 08/23/21 11:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 21:17	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 21:17	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 21:17	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 21:17	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 21:17	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 21:17	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 21:17	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 21:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 21:17	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 21:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 21:17	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 21:17	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 21:17	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 21:17	1
Chloroform	ND		1.0	0.26	ug/L			09/02/21 21:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 21:17	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 21:17	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 21:17	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 21:17	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 21:17	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 21:17	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 21:17	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 21:17	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 21:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 21:17	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 21:17	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 21:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 21:17	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 21:17	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 21:17	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 21:17	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 21:17	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 21:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 21:17	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 21:17	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 21:17	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 21:17	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 21:17	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 21:17	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 21:17	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 21:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 21:17	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 21:17	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 21:17	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 21:17	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 21:17	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 21:17	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 21:17	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 21:17	1

Client Sample ID: MW26-082321
Lab Sample ID: 180-126312-3

Date Collected: 08/23/21 11:05
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 21:17	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 21:17	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 21:17	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 21:17	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 21:17	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 21:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 21:17	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 21:17	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 21:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 21:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/02/21 21:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/02/21 21:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/02/21 21:17*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/02/21 21:17*	*1*

Client Sample ID: MW14-082321
Lab Sample ID: 180-126312-4

Date Collected: 08/23/21 11:45
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 21:41	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 21:41	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 21:41	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 21:41	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 21:41	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 21:41	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 21:41	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 21:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 21:41	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 21:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 21:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 21:41	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 21:41	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 21:41	1
Chloroform	**11**		1.0	0.26	ug/L			09/02/21 21:41	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 21:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 21:41	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 21:41	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 21:41	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 21:41	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 21:41	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 21:41	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 21:41	1
Dichlorobromomethane	**0.47**	**J *1**	1.0	0.29	ug/L			09/02/21 21:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 21:41	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 21:41	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW14-082321
Date Collected: 08/23/21 11:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 21:41	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 21:41	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 21:41	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 21:41	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 21:41	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 21:41	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 21:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 21:41	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 21:41	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 21:41	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 21:41	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 21:41	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 21:41	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 21:41	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 21:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 21:41	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 21:41	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 21:41	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 21:41	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 21:41	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 21:41	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 21:41	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 21:41	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 21:41	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 21:41	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 21:41	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 21:41	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 21:41	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 21:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 21:41	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 21:41	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 21:41	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 21:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/02/21 21:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/02/21 21:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/02/21 21:41*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/02/21 21:41*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.39**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:32	1
Calcium	**13**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:32	1
Iron	**0.59**		0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:32	1
Magnesium	**5.8**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:32	1
Potassium	**0.65**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:32	1
Sodium	**9.6**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:32	1

Client Sample ID: MW14-082321
Lab Sample ID: 180-126312-4
Date Collected: 08/23/21 11:45
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0012**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:27	1
Antimony	**0.00022**	**J B**	0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:27	1
Barium	**0.0044**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:27	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:27	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:27	1
Chromium	**0.0017**		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:27	1
Cobalt	**0.00047**		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:27	1
Copper	**0.0015**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:27	1
Lead	**0.00014**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:27	1
Manganese	**0.023**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:27	1
Nickel	**0.00095**	**J**	0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:27	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:27	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:27	1
Thallium	**0.000029**	**J**	0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:27	1
Vanadium	**0.0089**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:27	1
Zinc	**0.0049**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:27	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 12:08	1

Client Sample ID: MW13-082321
Lab Sample ID: 180-126312-5
Date Collected: 08/23/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 22:06	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 22:06	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 22:06	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 22:06	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 22:06	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 22:06	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 22:06	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 22:06	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 22:06	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 22:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 22:06	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 22:06	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 22:06	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 22:06	1
Chloroform	ND		1.0	0.26	ug/L			09/02/21 22:06	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 22:06	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 22:06	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 22:06	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 22:06	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 22:06	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 22:06	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 22:06	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 22:06	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW13-082321
Date Collected: 08/23/21 13:35
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 22:06	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 22:06	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 22:06	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 22:06	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 22:06	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 22:06	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 22:06	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 22:06	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 22:06	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 22:06	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 22:06	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 22:06	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 22:06	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 22:06	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 22:06	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 22:06	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 22:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 22:06	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 22:06	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 22:06	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 22:06	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 22:06	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 22:06	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 22:06	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 22:06	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 22:06	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 22:06	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 22:06	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:06	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 22:06	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 22:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 22:06	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 22:06	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 22:06	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 22:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*80 - 120*		*09/02/21 22:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/02/21 22:06*	*1*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*80 - 120*		*09/02/21 22:06*	*1*
Dibromofluoromethane (Surr)	*140*	*S1+*	*80 - 120*		*09/02/21 22:06*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.062**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:35	1
Calcium	**17**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:35	1
Iron	**0.067**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:35	1
Magnesium	**9.4**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:35	1

Client Sample ID: MW13-082321
Lab Sample ID: 180-126312-5
Date Collected: 08/23/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.1**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:35	1
Sodium	**8.2**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:35	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0038**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:31	1
Antimony	**0.00018**	**J B**	0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:31	1
Barium	**0.013**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:31	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:31	1
Cadmium	**0.000070**	**J**	0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:31	1
Chromium	**0.0015**		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:31	1
Cobalt	**0.000069**	**J**	0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:31	1
Copper	**0.0010**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:31	1
Lead	**0.00016**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:31	1
Manganese	**0.35**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:31	1
Nickel	**0.0064**		0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:31	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:31	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:31	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:31	1
Vanadium	**0.0043**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:31	1
Zinc	**0.0088**		0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:31	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 12:10	1

Client Sample ID: MW23-082321
Lab Sample ID: 180-126312-6
Date Collected: 08/23/21 14:30
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 22:30	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 22:30	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 22:30	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 22:30	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 22:30	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 22:30	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 22:30	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 22:30	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 22:30	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 22:30	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 22:30	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 22:30	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 22:30	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 22:30	1
Chloroform	**1.7**		1.0	0.26	ug/L			09/02/21 22:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 22:30	1
Carbon tetrachloride	**0.42**	**J**	1.0	0.30	ug/L			09/02/21 22:30	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 22:30	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW23-082321
Date Collected: 08/23/21 14:30
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 22:30	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 22:30	1
Trichloroethene	**0.31**	**J *1**	1.0	0.26	ug/L			09/02/21 22:30	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 22:30	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 22:30	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 22:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 22:30	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 22:30	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 22:30	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 22:30	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 22:30	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 22:30	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 22:30	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 22:30	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 22:30	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 22:30	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 22:30	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 22:30	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 22:30	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 22:30	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 22:30	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 22:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 22:30	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 22:30	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 22:30	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 22:30	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 22:30	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 22:30	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 22:30	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 22:30	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 22:30	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 22:30	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 22:30	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:30	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 22:30	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 22:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 22:30	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 22:30	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 22:30	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 22:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/02/21 22:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/02/21 22:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/02/21 22:30*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/02/21 22:30*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW23-082321

Lab Sample ID: 180-126312-6

Date Collected: 08/23/21 14:30

Matrix: Water

Date Received: 08/28/21 09:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:39	1
Calcium	**32**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:39	1
Iron	**0.12**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:39	1
Magnesium	**18**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:39	1
Potassium	**1.0**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:39	1
Sodium	**15**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:39	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0011**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:35	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:35	1
Barium	**0.0061**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:35	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:35	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:35	1
Chromium	**0.00088**		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:35	1
Cobalt	**0.00018**	**J**	0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:35	1
Copper	**0.0022**		0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:35	1
Lead	**0.00016**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:35	1
Manganese	**0.0044**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:35	1
Nickel	**0.00029**	**J**	0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:35	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:35	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:35	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:35	1
Vanadium	**0.0098**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:35	1
Zinc	**0.0068**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:35	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 12:13	1

Client Sample ID: MW29-082321

Lab Sample ID: 180-126312-7

Date Collected: 08/23/21 15:30

Matrix: Water

Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 22:55	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 22:55	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 22:55	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 22:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 22:55	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 22:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 22:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 22:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 22:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 22:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 22:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 22:55	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 22:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 22:55	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW29-082321
Date Collected: 08/23/21 15:30
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.26	ug/L			09/02/21 22:55	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 22:55	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 22:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 22:55	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 22:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 22:55	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 22:55	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 22:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 22:55	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 22:55	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 22:55	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 22:55	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 22:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 22:55	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 22:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 22:55	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 22:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 22:55	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 22:55	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 22:55	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 22:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 22:55	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 22:55	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 22:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 22:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 22:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 22:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 22:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 22:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 22:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 22:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 22:55	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 22:55	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 22:55	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 22:55	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 22:55	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 22:55	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 22:55	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 22:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 22:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 22:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 22:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 22:55	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 22:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/02/21 22:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/02/21 22:55*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW29-082321

Lab Sample ID: 180-126312-7

Date Collected: 08/23/21 15:30
Matrix: Water
Date Received: 08/28/21 09:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/02/21 22:55*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/02/21 22:55*	*1*

Client Sample ID: MW4-082321

Lab Sample ID: 180-126312-8

Date Collected: 08/23/21 16:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 23:20	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 23:20	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 23:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 23:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 23:20	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 23:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 23:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 23:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 23:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 23:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 23:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 23:20	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 23:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 23:20	1
Chloroform	ND		1.0	0.26	ug/L			09/02/21 23:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 23:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 23:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 23:20	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 23:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 23:20	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 23:20	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 23:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 23:20	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 23:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 23:20	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 23:20	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 23:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 23:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 23:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 23:20	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 23:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 23:20	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 23:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 23:20	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 23:20	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 23:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 23:20	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 23:20	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 23:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 23:20	1

Client Sample ID: MW4-082321

Date Collected: 08/23/21 16:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 23:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 23:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 23:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 23:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 23:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 23:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 23:20	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 23:20	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 23:20	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 23:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 23:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 23:20	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 23:20	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 23:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 23:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 23:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 23:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 23:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 23:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/02/21 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/02/21 23:20*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/02/21 23:20*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*09/02/21 23:20*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:42	1
Calcium	**36**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:42	1
Iron	**0.60**		0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:42	1
Magnesium	**19**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:42	1
Potassium	**1.4**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:42	1
Sodium	**19**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:42	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0025**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:39	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:39	1
Barium	**0.057**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:39	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:39	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:39	1
Chromium	**0.00065**	**J**	0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:39	1
Cobalt	**0.00036**	**J**	0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:39	1
Copper	**0.00087**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:39	1
Lead	**0.000049**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:39	1
Manganese	**0.66**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:39	1
Nickel	**0.0034**		0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:39	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:39	1

Client Sample ID: MW4-082321
Lab Sample ID: 180-126312-8
Date Collected: 08/23/21 16:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.00034**	**J**	0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:39	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:39	1
Vanadium	**0.0059**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:39	1
Zinc	**0.0023**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:39	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:39	1

Client Sample ID: MW8-082421
Lab Sample ID: 180-126312-9
Date Collected: 08/24/21 08:25
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/02/21 23:44	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/02/21 23:44	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/02/21 23:44	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 23:44	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 23:44	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 23:44	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 23:44	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 23:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 23:44	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 23:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 23:44	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 23:44	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 23:44	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 23:44	1
Chloroform	ND		1.0	0.26	ug/L			09/02/21 23:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 23:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 23:44	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 23:44	1
Benzene	ND	*1	1.0	0.24	ug/L			09/02/21 23:44	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 23:44	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/02/21 23:44	1
1,2-Dichloropropane	ND	*1	1.0	0.18	ug/L			09/02/21 23:44	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 23:44	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/02/21 23:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 23:44	1
Toluene	ND	*1	1.0	0.39	ug/L			09/02/21 23:44	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 23:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 23:44	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 23:44	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 23:44	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 23:44	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 23:44	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/02/21 23:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 23:44	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/02/21 23:44	1

Client Sample ID: MW8-082421
Lab Sample ID: 180-126312-9

Date Collected: 08/24/21 08:25
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/02/21 23:44	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 23:44	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 23:44	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 23:44	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 23:44	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 23:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 23:44	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 23:44	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 23:44	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 23:44	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 23:44	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 23:44	1
1,2,4-Trimethylbenzene	ND	*1	3.0	0.61	ug/L			09/02/21 23:44	1
sec-Butylbenzene	ND	*1	1.0	0.49	ug/L			09/02/21 23:44	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 23:44	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 23:44	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 23:44	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/02/21 23:44	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/02/21 23:44	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 23:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 23:44	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 23:44	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 23:44	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 23:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 120*		*09/02/21 23:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/02/21 23:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/02/21 23:44*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/02/21 23:44*	*1*

Client Sample ID: MW25-082421
Lab Sample ID: 180-126312-10

Date Collected: 08/24/21 08:55
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/03/21 21:45	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/03/21 21:45	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/03/21 21:45	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/21 21:45	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/21 21:45	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/21 21:45	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/21 21:45	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/21 21:45	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/21 21:45	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/21 21:45	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/21 21:45	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/21 21:45	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW25-082421
Date Collected: 08/24/21 08:55
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/03/21 21:45	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 21:45	1
Chloroform	ND		1.0	0.26	ug/L			09/03/21 21:45	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/21 21:45	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/21 21:45	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/21 21:45	1
Benzene	ND		1.0	0.24	ug/L			09/03/21 21:45	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/21 21:45	1
Trichloroethene	ND		1.0	0.26	ug/L			09/03/21 21:45	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/21 21:45	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/21 21:45	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 21:45	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/21 21:45	1
Toluene	ND		1.0	0.39	ug/L			09/03/21 21:45	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/21 21:45	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/21 21:45	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/21 21:45	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/21 21:45	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/21 21:45	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/21 21:45	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/21 21:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/21 21:45	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/21 21:45	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/21 21:45	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/21 21:45	1
Styrene	ND		1.0	0.53	ug/L			09/03/21 21:45	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/03/21 21:45	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/21 21:45	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/21 21:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/21 21:45	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/21 21:45	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/21 21:45	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/21 21:45	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/21 21:45	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/21 21:45	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/21 21:45	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/03/21 21:45	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/21 21:45	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/03/21 21:45	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 21:45	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/21 21:45	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 21:45	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/21 21:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/03/21 21:45	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/21 21:45	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/21 21:45	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/03/21 21:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/21 21:45	1

Client Sample ID: MW25-082421
Lab Sample ID: 180-126312-10
Date Collected: 08/24/21 08:55
Matrix: Water
Date Received: 08/28/21 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*09/03/21 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/03/21 21:45*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/03/21 21:45*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*09/03/21 21:45*	*1*

Client Sample ID: MW9-082421
Lab Sample ID: 180-126312-11
Date Collected: 08/24/21 09:55
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/03/21 22:10	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/03/21 22:10	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/03/21 22:10	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/21 22:10	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/21 22:10	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/21 22:10	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/21 22:10	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/21 22:10	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/21 22:10	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/21 22:10	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/21 22:10	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/21 22:10	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/03/21 22:10	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:10	1
Chloroform	ND		1.0	0.26	ug/L			09/03/21 22:10	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/21 22:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/21 22:10	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/21 22:10	1
Benzene	ND		1.0	0.24	ug/L			09/03/21 22:10	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/21 22:10	1
Trichloroethene	ND		1.0	0.26	ug/L			09/03/21 22:10	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/21 22:10	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/21 22:10	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:10	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/21 22:10	1
Toluene	ND		1.0	0.39	ug/L			09/03/21 22:10	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/21 22:10	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/21 22:10	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/21 22:10	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/21 22:10	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/21 22:10	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/21 22:10	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/21 22:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/21 22:10	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:10	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/21 22:10	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/21 22:10	1
Styrene	ND		1.0	0.53	ug/L			09/03/21 22:10	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/03/21 22:10	1

Client Sample ID: MW9-082421
Lab Sample ID: 180-126312-11

Date Collected: 08/24/21 09:55
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:10	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/21 22:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/21 22:10	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/21 22:10	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:10	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/21 22:10	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/21 22:10	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/21 22:10	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/21 22:10	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/03/21 22:10	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/21 22:10	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/03/21 22:10	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:10	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:10	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:10	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/21 22:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/03/21 22:10	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/21 22:10	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/21 22:10	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/03/21 22:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/21 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/03/21 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/03/21 22:10*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/03/21 22:10*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/03/21 22:10*	*1*

Client Sample ID: MW19-082421
Lab Sample ID: 180-126312-12

Date Collected: 08/24/21 10:30
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/03/21 22:35	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/03/21 22:35	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/03/21 22:35	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/21 22:35	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/21 22:35	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/21 22:35	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/21 22:35	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/21 22:35	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/21 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/21 22:35	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/21 22:35	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/21 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/03/21 22:35	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:35	1
Chloroform	ND		1.0	0.26	ug/L			09/03/21 22:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/21 22:35	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW19-082421
Date Collected: 08/24/21 10:30
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/21 22:35	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/21 22:35	1
Benzene	ND		1.0	0.24	ug/L			09/03/21 22:35	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/21 22:35	1
Trichloroethene	ND		1.0	0.26	ug/L			09/03/21 22:35	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/21 22:35	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/21 22:35	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:35	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/21 22:35	1
Toluene	ND		1.0	0.39	ug/L			09/03/21 22:35	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/21 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/21 22:35	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/21 22:35	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/21 22:35	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/21 22:35	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/21 22:35	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/21 22:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/21 22:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:35	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/21 22:35	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/21 22:35	1
Styrene	ND		1.0	0.53	ug/L			09/03/21 22:35	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/03/21 22:35	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:35	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/21 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/21 22:35	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/21 22:35	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:35	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/21 22:35	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/21 22:35	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/21 22:35	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/21 22:35	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/03/21 22:35	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/21 22:35	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/03/21 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:35	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:35	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/21 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/03/21 22:35	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/21 22:35	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/21 22:35	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/03/21 22:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/21 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/03/21 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/03/21 22:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/03/21 22:35*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/03/21 22:35*	*1*

Client Sample ID: MW19-082421
Lab Sample ID: 180-126312-12
Date Collected: 08/24/21 10:30
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:45	1
Calcium	**13**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:45	1
Iron	**0.19**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:45	1
Magnesium	**6.4**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:45	1
Potassium	**0.49**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:45	1
Sodium	**8.0**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:45	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00060**	**J B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:42	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:42	1
Barium	**0.0086**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:42	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:42	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:42	1
Chromium	**0.00018**	**J**	0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:42	1
Cobalt	**0.00055**		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:42	1
Copper	**0.00072**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:42	1
Lead	**0.000066**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:42	1
Manganese	**0.41**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:42	1
Nickel	**0.0011**	**J**	0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:42	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:42	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:42	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:42	1
Vanadium	**0.0023**	**J**	0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:42	1
Zinc	**0.0035**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:42	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:41	1

Client Sample ID: MW10-082421
Lab Sample ID: 180-126312-13
Date Collected: 08/24/21 13:00
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/03/21 22:59	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/03/21 22:59	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/03/21 22:59	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/21 22:59	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/21 22:59	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/21 22:59	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/21 22:59	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/21 22:59	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/21 22:59	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/21 22:59	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/21 22:59	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/21 22:59	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/03/21 22:59	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:59	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW10-082421
Date Collected: 08/24/21 13:00
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.26	ug/L			09/03/21 22:59	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/21 22:59	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/21 22:59	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/21 22:59	1
Benzene	ND		1.0	0.24	ug/L			09/03/21 22:59	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/21 22:59	1
Trichloroethene	ND		1.0	0.26	ug/L			09/03/21 22:59	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/21 22:59	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/21 22:59	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 22:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/21 22:59	1
Toluene	ND		1.0	0.39	ug/L			09/03/21 22:59	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/21 22:59	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/21 22:59	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/21 22:59	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/21 22:59	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/21 22:59	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/21 22:59	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/21 22:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/21 22:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:59	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/21 22:59	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/21 22:59	1
Styrene	ND		1.0	0.53	ug/L			09/03/21 22:59	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/03/21 22:59	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:59	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/21 22:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/21 22:59	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/21 22:59	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/21 22:59	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/21 22:59	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/21 22:59	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/21 22:59	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/21 22:59	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/03/21 22:59	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/21 22:59	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/03/21 22:59	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:59	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/21 22:59	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 22:59	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/21 22:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/03/21 22:59	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/21 22:59	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/21 22:59	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/03/21 22:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/21 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/03/21 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/03/21 22:59*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW10-082421

Lab Sample ID: 180-126312-13

Date Collected: 08/24/21 13:00
Matrix: Water
Date Received: 08/28/21 09:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/03/21 22:59*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/03/21 22:59*	*1*

Client Sample ID: MW20-082421

Lab Sample ID: 180-126312-14

Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+ F1	1.0	0.53	ug/L			09/04/21 02:42	1
Chloromethane	ND	*+ F1	1.0	0.28	ug/L			09/04/21 02:42	1
Vinyl chloride	ND	*+ F1	1.0	0.22	ug/L			09/04/21 02:42	1
Bromomethane	ND	*+	1.0	0.21	ug/L			09/04/21 02:42	1
Chloroethane	ND	*+	1.0	0.35	ug/L			09/04/21 02:42	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/21 02:42	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/21 02:42	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/21 02:42	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/21 02:42	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/21 02:42	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/21 02:42	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/21 02:42	1
cis-1,2-Dichloroethene	**0.57**	**J**	1.0	0.35	ug/L			09/04/21 02:42	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 02:42	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/21 02:42	1
1,1-Dichloropropene	ND	F1	1.0	0.29	ug/L			09/04/21 02:42	1
Benzene	ND		1.0	0.24	ug/L			09/04/21 02:42	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/21 02:42	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/21 02:42	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/21 02:42	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 02:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/04/21 02:42	1
Toluene	ND		1.0	0.39	ug/L			09/04/21 02:42	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/21 02:42	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/21 02:42	1
Tetrachloroethene	**8.1**	**F1**	1.0	0.41	ug/L			09/04/21 02:42	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/21 02:42	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/21 02:42	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/21 02:42	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/21 02:42	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/21 02:42	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/21 02:42	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/21 02:42	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/21 02:42	1
Styrene	ND		1.0	0.53	ug/L			09/04/21 02:42	1
Bromoform	ND	*+ F1	1.0	0.51	ug/L			09/04/21 02:42	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/21 02:42	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/21 02:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/21 02:42	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/21 02:42	1

Client Sample ID: MW20-082421
Lab Sample ID: 180-126312-14

Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/21 02:42	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/21 02:42	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/21 02:42	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/21 02:42	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/21 02:42	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/21 02:42	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/04/21 02:42	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/21 02:42	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 02:42	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/21 02:42	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 02:42	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/21 02:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/21 02:42	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/21 02:42	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/21 02:42	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/21 02:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/04/21 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/04/21 02:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/04/21 02:42*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/04/21 02:42*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**160**	**H**	50	13	ug/L			09/09/21 02:13	50
Carbon tetrachloride	**1700**	**H F1**	50	15	ug/L			09/09/21 02:13	50
Trichloroethene	**190**	**H *1**	50	13	ug/L			09/09/21 02:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/09/21 02:13*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/09/21 02:13*	*50*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/09/21 02:13*	*50*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/09/21 02:13*	*50*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:07	1
Calcium	**32**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:07	1
Iron	**0.19**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:07	1
Magnesium	**15**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:07	1
Potassium	**0.87**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:07	1
Sodium	**21**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:07	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0027**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 22:47	1
Antimony	**0.00015**	**J B**	0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 22:47	1
Barium	**0.021**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 22:47	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 22:47	1

Client Sample ID: MW20-082421
Lab Sample ID: 180-126312-14
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 22:47	1
Chromium	**0.00079**	**J**	0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 22:47	1
Cobalt	**0.00083**		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 22:47	1
Copper	**0.00078**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 22:47	1
Lead	**0.000079**	**J**	0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 22:47	1
Manganese	**1.2**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 22:47	1
Nickel	**0.0031**		0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 22:47	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 22:47	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 22:47	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 22:47	1
Vanadium	**0.012**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 22:47	1
Zinc	**0.0051**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 22:47	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:25	1

Client Sample ID: MW20-082421-DUPLICATE
Lab Sample ID: 180-126312-15
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/04/21 02:18	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/04/21 02:18	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/04/21 02:18	1
Bromomethane	ND	*+	1.0	0.21	ug/L			09/04/21 02:18	1
Chloroethane	ND	*+	1.0	0.35	ug/L			09/04/21 02:18	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/21 02:18	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/21 02:18	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/21 02:18	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/21 02:18	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/21 02:18	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/21 02:18	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/21 02:18	1
cis-1,2-Dichloroethene	**0.56**	**J**	1.0	0.35	ug/L			09/04/21 02:18	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 02:18	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/21 02:18	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/21 02:18	1
Benzene	ND		1.0	0.24	ug/L			09/04/21 02:18	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/21 02:18	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/21 02:18	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/21 02:18	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 02:18	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/04/21 02:18	1
Toluene	ND		1.0	0.39	ug/L			09/04/21 02:18	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/21 02:18	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/21 02:18	1
Tetrachloroethene	**8.6**		1.0	0.41	ug/L			09/04/21 02:18	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/21 02:18	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW20-082421-DUPLICATE
Date Collected: 08/24/21 13:35
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/21 02:18	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/21 02:18	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/21 02:18	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/21 02:18	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/21 02:18	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/21 02:18	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/21 02:18	1
Styrene	ND		1.0	0.53	ug/L			09/04/21 02:18	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/04/21 02:18	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/21 02:18	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/21 02:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/21 02:18	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/21 02:18	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/21 02:18	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/21 02:18	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/21 02:18	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/21 02:18	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/21 02:18	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/21 02:18	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/04/21 02:18	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/21 02:18	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 02:18	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/21 02:18	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 02:18	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/21 02:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/21 02:18	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/21 02:18	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/21 02:18	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/21 02:18	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/21 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 120*		*09/04/21 02:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*09/04/21 02:18*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/04/21 02:18*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/04/21 02:18*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**160**	**H**	50	13	ug/L			09/09/21 03:27	50
Carbon tetrachloride	**1700**	**H**	50	15	ug/L			09/09/21 03:27	50
Trichloroethene	**200**	**H *1**	50	13	ug/L			09/09/21 03:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/09/21 03:27*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/09/21 03:27*	*50*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/09/21 03:27*	*50*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/09/21 03:27*	*50*

Client Sample ID: MW20-082421-DUPLICATE
Lab Sample ID: 180-126312-15
Date Collected: 08/24/21 13:35
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.18**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:48	1
Calcium	**31**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:48	1
Iron	**0.24**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:48	1
Magnesium	**15**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:48	1
Potassium	**0.74**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:48	1
Sodium	**20**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:48	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0018**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:46	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:46	1
Barium	**0.017**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:46	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:46	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:46	1
Chromium	**0.00092**		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:46	1
Cobalt	**0.00066**		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:46	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:46	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:46	1
Manganese	**0.96**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:46	1
Nickel	**0.0031**		0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:46	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:46	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:46	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:46	1
Vanadium	**0.012**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:46	1
Zinc	**0.0035**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:46	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:43	1

Client Sample ID: MW22-082421
Lab Sample ID: 180-126312-16
Date Collected: 08/24/21 14:55
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/04/21 03:56	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/04/21 03:56	1
Vinyl chloride	ND	*+	1.0	0.22	ug/L			09/04/21 03:56	1
Bromomethane	ND	*+	1.0	0.21	ug/L			09/04/21 03:56	1
Chloroethane	ND	*+	1.0	0.35	ug/L			09/04/21 03:56	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/21 03:56	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/21 03:56	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/21 03:56	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/21 03:56	1
trans-1,2-Dichloroethene	**0.46**	**J**	1.0	0.39	ug/L			09/04/21 03:56	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/21 03:56	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/21 03:56	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.35	ug/L			09/04/21 03:56	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 03:56	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW22-082421
Date Collected: 08/24/21 14:55
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	**2.5**		1.0	0.26	ug/L			09/04/21 03:56	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/21 03:56	1
Carbon tetrachloride	**14**	*+	1.0	0.30	ug/L			09/04/21 03:56	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/21 03:56	1
Benzene	ND		1.0	0.24	ug/L			09/04/21 03:56	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/21 03:56	1
Trichloroethene	**7.8**		1.0	0.26	ug/L			09/04/21 03:56	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/21 03:56	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/21 03:56	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 03:56	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/04/21 03:56	1
Toluene	ND		1.0	0.39	ug/L			09/04/21 03:56	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/21 03:56	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/21 03:56	1
Tetrachloroethene	**1.1**		1.0	0.41	ug/L			09/04/21 03:56	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/21 03:56	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/21 03:56	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/21 03:56	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/21 03:56	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/21 03:56	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/21 03:56	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/21 03:56	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/21 03:56	1
Styrene	ND		1.0	0.53	ug/L			09/04/21 03:56	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/04/21 03:56	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/21 03:56	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/21 03:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/21 03:56	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/21 03:56	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/21 03:56	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/21 03:56	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/21 03:56	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/21 03:56	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/21 03:56	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/21 03:56	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/04/21 03:56	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/21 03:56	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 03:56	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/21 03:56	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 03:56	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/21 03:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/21 03:56	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/21 03:56	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/21 03:56	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/21 03:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/21 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/04/21 03:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/04/21 03:56*	*1*

Client Sample ID: MW22-082421
Lab Sample ID: 180-126312-16
Date Collected: 08/24/21 14:55
Matrix: Water
Date Received: 08/28/21 09:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/04/21 03:56*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/04/21 03:56*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.062**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:52	1
Calcium	**25**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:52	1
Iron	**0.17**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:52	1
Magnesium	**12**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:52	1
Potassium	**1.1**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:52	1
Sodium	**23**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:52	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0018**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:50	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:50	1
Barium	**0.0092**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:50	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:50	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:50	1
Chromium	**0.00021**	**J**	0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:50	1
Cobalt	**0.00081**		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:50	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:50	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:50	1
Manganese	**0.066**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:50	1
Nickel	**0.00073**	**J**	0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:50	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:50	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:50	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:50	1
Vanadium	**0.0043**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:50	1
Zinc	**0.0034**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:50	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:46	1

Client Sample ID: MW6-082521
Lab Sample ID: 180-126312-17
Date Collected: 08/25/21 08:20
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 15:55	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 15:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 15:55	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 15:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 15:55	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 15:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 15:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 15:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 15:55	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW6-082521
Date Collected: 08/25/21 08:20
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 15:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 15:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 15:55	1
cis-1,2-Dichloroethene	**0.69**	**J**	1.0	0.35	ug/L			09/08/21 15:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:55	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 15:55	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 15:55	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 15:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 15:55	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 15:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 15:55	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 15:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 15:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 15:55	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:55	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 15:55	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 15:55	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 15:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 15:55	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 15:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 15:55	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 15:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 15:55	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 15:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 15:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:55	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 15:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 15:55	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 15:55	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 15:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 15:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 15:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 15:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 15:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 15:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 15:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 15:55	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 15:55	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 15:55	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 15:55	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:55	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:55	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 15:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 15:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 15:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 15:55	1

Client Sample ID: MW6-082521
Lab Sample ID: 180-126312-17
Date Collected: 08/25/21 08:20
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 15:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/08/21 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/08/21 15:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/08/21 15:55*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/08/21 15:55*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.16**	**J**	0.50	0.042	mg/L		09/01/21 17:42	09/02/21 17:55	1
Calcium	**14**		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 17:55	1
Iron	**0.30**	**J**	0.50	0.061	mg/L		09/01/21 17:42	09/02/21 17:55	1
Magnesium	**7.8**		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 17:55	1
Potassium	**0.46**	**J**	3.3	0.17	mg/L		09/01/21 17:42	09/02/21 17:55	1
Sodium	**9.3**		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 17:55	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0017**	**B**	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 23:53	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 23:53	1
Barium	**0.015**		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 23:53	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 23:53	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 23:53	1
Chromium	**0.00097**		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 23:53	1
Cobalt	**0.00013**	**J**	0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 23:53	1
Copper	**0.00065**	**J**	0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 23:53	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 23:53	1
Manganese	**0.021**		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 23:53	1
Nickel	**0.00061**	**J**	0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 23:53	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 23:53	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 23:53	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 23:53	1
Vanadium	**0.0055**		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 23:53	1
Zinc	**0.0023**	**J**	0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 23:53	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:48	1

Client Sample ID: MW30-082521
Lab Sample ID: 180-126312-18
Date Collected: 08/25/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 16:20	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 16:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 16:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 16:20	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW30-082521
Date Collected: 08/25/21 09:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 16:20	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 16:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 16:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 16:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 16:20	1
trans-1,2-Dichloroethene	**0.53**	**J**	1.0	0.39	ug/L			09/08/21 16:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 16:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 16:20	1
cis-1,2-Dichloroethene	**5.8**		1.0	0.35	ug/L			09/08/21 16:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 16:20	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 16:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 16:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 16:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 16:20	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 16:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 16:20	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 16:20	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 16:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 16:20	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 16:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 16:20	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 16:20	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 16:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 16:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 16:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 16:20	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 16:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 16:20	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 16:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 16:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 16:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 16:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 16:20	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 16:20	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 16:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 16:20	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 16:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 16:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 16:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 16:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 16:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 16:20	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 16:20	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 16:20	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 16:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 16:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 16:20	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 16:20	1

Client Sample ID: MW30-082521

Lab Sample ID: 180-126312-18

Date Collected: 08/25/21 09:05

Matrix: Water

Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 16:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 16:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 16:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 16:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 16:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 16:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/08/21 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/08/21 16:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/08/21 16:20*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/08/21 16:20*	*1*

Client Sample ID: MW31-082521

Lab Sample ID: 180-126312-19

Date Collected: 08/25/21 09:45

Matrix: Water

Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 16:44	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 16:44	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 16:44	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 16:44	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 16:44	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 16:44	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 16:44	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 16:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 16:44	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 16:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 16:44	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 16:44	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 16:44	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 16:44	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 16:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 16:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 16:44	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 16:44	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 16:44	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 16:44	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 16:44	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 16:44	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 16:44	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 16:44	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 16:44	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 16:44	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 16:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 16:44	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 16:44	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 16:44	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW31-082521

Date Collected: 08/25/21 09:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 16:44	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 16:44	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 16:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 16:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 16:44	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 16:44	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 16:44	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 16:44	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 16:44	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 16:44	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 16:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 16:44	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 16:44	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 16:44	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 16:44	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 16:44	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 16:44	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 16:44	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 16:44	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 16:44	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 16:44	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 16:44	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 16:44	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 16:44	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 16:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 16:44	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 16:44	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 16:44	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 16:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/08/21 16:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/08/21 16:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/08/21 16:44*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/08/21 16:44*	*1*

Client Sample ID: MW5-082521

Date Collected: 08/25/21 10:25
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-20

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 17:09	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 17:09	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 17:09	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 17:09	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 17:09	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 17:09	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 17:09	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW5-082521
Date Collected: 08/25/21 10:25
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 17:09	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 17:09	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 17:09	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 17:09	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 17:09	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 17:09	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 17:09	1
Chloroform	**1.8**	***1**	1.0	0.26	ug/L			09/08/21 17:09	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 17:09	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 17:09	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 17:09	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 17:09	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 17:09	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 17:09	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 17:09	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 17:09	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 17:09	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 17:09	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 17:09	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 17:09	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 17:09	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 17:09	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 17:09	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 17:09	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 17:09	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 17:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 17:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 17:09	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 17:09	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 17:09	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 17:09	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 17:09	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 17:09	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 17:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 17:09	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 17:09	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 17:09	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 17:09	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 17:09	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 17:09	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 17:09	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 17:09	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 17:09	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 17:09	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 17:09	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 17:09	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 17:09	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 17:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 17:09	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW5-082521

Date Collected: 08/25/21 10:25
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 17:09	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 17:09	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 17:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/08/21 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/08/21 17:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/08/21 17:09*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*09/08/21 17:09*	*1*

Client Sample ID: MW11-082521

Date Collected: 08/25/21 11:35
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-21
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 17:34	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 17:34	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 17:34	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 17:34	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 17:34	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 17:34	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 17:34	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 17:34	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 17:34	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 17:34	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 17:34	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 17:34	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 17:34	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 17:34	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 17:34	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 17:34	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 17:34	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 17:34	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 17:34	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 17:34	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 17:34	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 17:34	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 17:34	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 17:34	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 17:34	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 17:34	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 17:34	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 17:34	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 17:34	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 17:34	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 17:34	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 17:34	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 17:34	1

Client Sample ID: MW11-082521
Lab Sample ID: 180-126312-21
Date Collected: 08/25/21 11:35
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 17:34	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 17:34	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 17:34	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 17:34	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 17:34	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 17:34	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 17:34	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 17:34	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 17:34	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 17:34	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 17:34	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 17:34	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 17:34	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 17:34	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 17:34	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 17:34	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 17:34	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 17:34	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 17:34	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 17:34	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 17:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 17:34	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 17:34	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 17:34	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 17:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/08/21 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/08/21 17:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/08/21 17:34*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/08/21 17:34*	*1*

Client Sample ID: MW24-082521
Lab Sample ID: 180-126312-22
Date Collected: 08/25/21 12:15
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 15:30	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 15:30	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 15:30	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 15:30	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 15:30	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 15:30	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 15:30	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 15:30	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 15:30	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 15:30	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW24-082521
Date Collected: 08/25/21 12:15
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 15:30	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 15:30	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 15:30	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:30	1
Chloroform	**23**	***1**	1.0	0.26	ug/L			09/08/21 15:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 15:30	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 15:30	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 15:30	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 15:30	1
Trichloroethene	**88**		1.0	0.26	ug/L			09/08/21 15:30	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 15:30	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 15:30	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 15:30	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 15:30	1
Tetrachloroethene	**0.78**	**J**	1.0	0.41	ug/L			09/08/21 15:30	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 15:30	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 15:30	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 15:30	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 15:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 15:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:30	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 15:30	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 15:30	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 15:30	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 15:30	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:30	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 15:30	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 15:30	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:30	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 15:30	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 15:30	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 15:30	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 15:30	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 15:30	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:30	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:30	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 15:30	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 15:30	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 15:30	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 15:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 15:30	1

Client Sample ID: MW24-082521
Lab Sample ID: 180-126312-22

Date Collected: 08/25/21 12:15
Matrix: Water
Date Received: 08/28/21 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/08/21 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*09/08/21 15:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/08/21 15:30*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/08/21 15:30*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**250**		10	3.0	ug/L			09/08/21 18:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/08/21 18:48*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/08/21 18:48*	*10*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/08/21 18:48*	*10*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/08/21 18:48*	*10*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.76**		0.50	0.042	mg/L		09/02/21 19:50	09/04/21 14:39	1
Calcium	**24**		0.50	0.034	mg/L		09/02/21 19:50	09/04/21 14:39	1
Iron	**5.3**		0.50	0.061	mg/L		09/02/21 19:50	09/04/21 14:39	1
Magnesium	**12**		0.50	0.047	mg/L		09/02/21 19:50	09/04/21 14:39	1
Potassium	**1.1**	**J**	3.3	0.17	mg/L		09/02/21 19:50	09/04/21 14:39	1
Sodium	**19**		0.50	0.086	mg/L		09/02/21 19:50	09/04/21 14:39	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0022**		0.0010	0.00020	mg/L		09/02/21 19:50	09/03/21 14:29	1
Antimony	ND		0.00080	0.00013	mg/L		09/02/21 19:50	09/03/21 14:29	1
Barium	**0.035**		0.0012	0.00021	mg/L		09/02/21 19:50	09/03/21 14:29	1
Beryllium	ND		0.00040	0.00011	mg/L		09/02/21 19:50	09/03/21 14:29	1
Cadmium	ND		0.00040	0.000037	mg/L		09/02/21 19:50	09/03/21 14:29	1
Chromium	**0.0028**		0.00080	0.00017	mg/L		09/02/21 19:50	09/03/21 14:29	1
Cobalt	**0.0020**		0.00040	0.000039	mg/L		09/02/21 19:50	09/03/21 14:29	1
Copper	**0.0013**	**J**	0.0020	0.00060	mg/L		09/02/21 19:50	09/03/21 14:29	1
Lead	**0.00037**	**J**	0.00040	0.000040	mg/L		09/02/21 19:50	09/03/21 14:29	1
Manganese	**0.24**		0.0020	0.00046	mg/L		09/02/21 19:50	09/03/21 14:29	1
Nickel	**0.0019**	**J**	0.0030	0.00013	mg/L		09/02/21 19:50	09/03/21 14:29	1
Selenium	ND		0.0080	0.0021	mg/L		09/02/21 19:50	09/03/21 14:29	1
Silver	ND		0.00040	0.000025	mg/L		09/02/21 19:50	09/03/21 14:29	1
Thallium	ND		0.0010	0.000029	mg/L		09/02/21 19:50	09/03/21 14:29	1
Vanadium	**0.010**		0.0040	0.00046	mg/L		09/02/21 19:50	09/03/21 14:29	1
Zinc	**0.0091**		0.0070	0.00093	mg/L		09/02/21 19:50	09/03/21 14:29	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:50	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW101-082521
Date Collected: 08/25/21 14:10
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-23
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 15:06	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 15:06	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 15:06	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 15:06	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 15:06	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 15:06	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 15:06	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 15:06	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 15:06	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 15:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 15:06	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 15:06	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 15:06	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:06	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 15:06	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 15:06	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 15:06	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 15:06	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 15:06	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 15:06	1
Trichloroethene	**1.8**		1.0	0.26	ug/L			09/08/21 15:06	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 15:06	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 15:06	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 15:06	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 15:06	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 15:06	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 15:06	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 15:06	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 15:06	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 15:06	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 15:06	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 15:06	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 15:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 15:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:06	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 15:06	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 15:06	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 15:06	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 15:06	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:06	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 15:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 15:06	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 15:06	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 15:06	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 15:06	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 15:06	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 15:06	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 15:06	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 15:06	1

Client Sample ID: MW101-082521
Lab Sample ID: 180-126312-23
Date Collected: 08/25/21 14:10
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 15:06	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 15:06	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:06	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 15:06	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 15:06	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 15:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 15:06	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 15:06	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 15:06	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 15:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*80 - 120*		*09/08/21 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/08/21 15:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/08/21 15:06*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/08/21 15:06*	*1*

Client Sample ID: MW100-082521
Lab Sample ID: 180-126312-24
Date Collected: 08/25/21 14:50
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 14:41	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 14:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 14:41	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 14:41	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 14:41	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 14:41	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 14:41	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 14:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 14:41	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 14:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 14:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 14:41	1
cis-1,2-Dichloroethene	**0.54**	**J**	1.0	0.35	ug/L			09/08/21 14:41	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 14:41	1
Chloroform	**0.40**	**J *1**	1.0	0.26	ug/L			09/08/21 14:41	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 14:41	1
Carbon tetrachloride	**1.0**		1.0	0.30	ug/L			09/08/21 14:41	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 14:41	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 14:41	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 14:41	1
Trichloroethene	**80**		1.0	0.26	ug/L			09/08/21 14:41	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 14:41	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 14:41	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 14:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 14:41	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 14:41	1

Client Sample ID: MW100-082521
Lab Sample ID: 180-126312-24

Date Collected: 08/25/21 14:50
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 14:41	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 14:41	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 14:41	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 14:41	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 14:41	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 14:41	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 14:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 14:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 14:41	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 14:41	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 14:41	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 14:41	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 14:41	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 14:41	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 14:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 14:41	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 14:41	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 14:41	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 14:41	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 14:41	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 14:41	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 14:41	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 14:41	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 14:41	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 14:41	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 14:41	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 14:41	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 14:41	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 14:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 14:41	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 14:41	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 14:41	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 14:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/08/21 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/08/21 14:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/08/21 14:41*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/08/21 14:41*	*1*

Client Sample ID: MW102-082521
Lab Sample ID: 180-126312-25

Date Collected: 08/25/21 15:30
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 14:17	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 14:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 14:17	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW102-082521
Date Collected: 08/25/21 15:30
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 14:17	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 14:17	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 14:17	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 14:17	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 14:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 14:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 14:17	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 14:17	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 14:17	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 14:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 14:17	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 14:17	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 14:17	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 14:17	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 14:17	1
Trichloroethene	**6.5**		1.0	0.26	ug/L			09/08/21 14:17	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 14:17	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 14:17	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 14:17	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 14:17	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 14:17	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 14:17	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 14:17	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 14:17	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 14:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 14:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 14:17	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 14:17	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 14:17	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 14:17	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 14:17	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 14:17	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 14:17	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 14:17	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 14:17	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 14:17	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 14:17	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 14:17	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 14:17	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 14:17	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 14:17	1

Client Sample ID: MW102-082521
Lab Sample ID: 180-126312-25

Date Collected: 08/25/21 15:30
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 14:17	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 14:17	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 14:17	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 14:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 14:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/08/21 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/08/21 14:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/08/21 14:17*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/08/21 14:17*	*1*

Client Sample ID: MW103-082521
Lab Sample ID: 180-126312-26

Date Collected: 08/25/21 16:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/08/21 13:52	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/08/21 13:52	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 13:52	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 13:52	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 13:52	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 13:52	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 13:52	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 13:52	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 13:52	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 13:52	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 13:52	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 13:52	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 13:52	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 13:52	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/08/21 13:52	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 13:52	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 13:52	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 13:52	1
Benzene	ND	*1	1.0	0.24	ug/L			09/08/21 13:52	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 13:52	1
Trichloroethene	**0.57**	**J**	1.0	0.26	ug/L			09/08/21 13:52	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 13:52	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 13:52	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 13:52	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 13:52	1
Toluene	ND	*1	1.0	0.39	ug/L			09/08/21 13:52	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 13:52	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 13:52	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 13:52	1

Client Sample ID: MW103-082521
Lab Sample ID: 180-126312-26
Date Collected: 08/25/21 16:05
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 13:52	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 13:52	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 13:52	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 13:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 13:52	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 13:52	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 13:52	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 13:52	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 13:52	1
Bromoform	ND	*+	1.0	0.51	ug/L			09/08/21 13:52	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 13:52	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 13:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 13:52	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 13:52	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 13:52	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 13:52	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 13:52	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 13:52	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 13:52	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 13:52	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 13:52	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 13:52	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 13:52	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 13:52	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 13:52	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 13:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 13:52	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 13:52	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 13:52	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 13:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/08/21 13:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/08/21 13:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/08/21 13:52*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/08/21 13:52*	*1*

Client Sample ID: MW28-082621
Lab Sample ID: 180-126312-27
Date Collected: 08/26/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 13:41	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 13:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 13:41	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 13:41	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 13:41	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 13:41	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW28-082621
Date Collected: 08/26/21 09:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	F1 *1	1.0	0.28	ug/L			09/09/21 13:41	1
Methylene Chloride	ND	F2 F1 *1	3.0	1.4	ug/L			09/09/21 13:41	1
Methyl tert-butyl ether	ND	F1 *1	1.0	0.44	ug/L			09/09/21 13:41	1
trans-1,2-Dichloroethene	ND	F1 *1	1.0	0.39	ug/L			09/09/21 13:41	1
2,2-Dichloropropane	ND	F1 *1	1.0	0.32	ug/L			09/09/21 13:41	1
cis-1,2-Dichloroethene	ND	F2 F1 *1	1.0	0.35	ug/L			09/09/21 13:41	1
Chlorobromomethane	ND	F2 F1 *1	1.0	0.29	ug/L			09/09/21 13:41	1
Chloroform	ND	F2 F1 *1	1.0	0.26	ug/L			09/09/21 13:41	1
1,1,1-Trichloroethane	ND	F1 *1	1.0	0.39	ug/L			09/09/21 13:41	1
Carbon tetrachloride	ND	F1 *+ *1	1.0	0.30	ug/L			09/09/21 13:41	1
1,1-Dichloropropene	ND	F2 F1 *1	1.0	0.29	ug/L			09/09/21 13:41	1
Benzene	ND	F1 *1	1.0	0.24	ug/L			09/09/21 13:41	1
1,2-Dichloroethane	ND	F2 F1 *1	1.0	0.42	ug/L			09/09/21 13:41	1
Trichloroethene	ND	F2 F1 *1	1.0	0.26	ug/L			09/09/21 13:41	1
Dibromomethane	ND	F2 F1 *1	1.0	0.34	ug/L			09/09/21 13:41	1
Dichlorobromomethane	ND	F2 F1 *1	1.0	0.29	ug/L			09/09/21 13:41	1
Toluene	ND	F2 F1 *1	1.0	0.39	ug/L			09/09/21 13:41	1
trans-1,3-Dichloropropene	ND	F1 *1	1.0	0.41	ug/L			09/09/21 13:41	1
1,1,2-Trichloroethane	ND	F2 F1 *1	1.0	0.24	ug/L			09/09/21 13:41	1
Tetrachloroethene	ND	F2 F1 *1	1.0	0.41	ug/L			09/09/21 13:41	1
1,3-Dichloropropane	ND	F1 *1	1.0	0.35	ug/L			09/09/21 13:41	1
Chlorodibromomethane	ND	F2 F1 *+ *1	1.0	0.43	ug/L			09/09/21 13:41	1
Ethylene Dibromide	ND	F2 F1 *1	1.0	0.40	ug/L			09/09/21 13:41	1
Chlorobenzene	ND	F2 F1 *1	1.0	0.44	ug/L			09/09/21 13:41	1
1,1,1,2-Tetrachloroethane	ND	F1 *+ *1	1.0	0.18	ug/L			09/09/21 13:41	1
Ethylbenzene	ND	F2 F1 *1	1.0	0.50	ug/L			09/09/21 13:41	1
m-Xylene & p-Xylene	ND	F2 F1 *1	2.0	0.53	ug/L			09/09/21 13:41	1
o-Xylene	ND	F2 F1 *1	1.0	0.39	ug/L			09/09/21 13:41	1
Styrene	ND	F2 F1 *1	1.0	0.53	ug/L			09/09/21 13:41	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 13:41	1
Isopropylbenzene	ND	F1 *1	1.0	0.44	ug/L			09/09/21 13:41	1
1,2,3-Trichloropropane	ND	F1	1.0	0.41	ug/L			09/09/21 13:41	1
4-Chlorotoluene	ND	F1	1.0	0.38	ug/L			09/09/21 13:41	1
1,3-Dichlorobenzene	ND	F1 *+	1.0	0.48	ug/L			09/09/21 13:41	1
1,4-Dichlorobenzene	ND	F2 F1 *1	1.0	0.46	ug/L			09/09/21 13:41	1
n-Butylbenzene	ND	F2 F1 *1	1.0	0.44	ug/L			09/09/21 13:41	1
1,2-Dichlorobenzene	ND	F2 F1 *1	1.0	0.46	ug/L			09/09/21 13:41	1
1,2-Dibromo-3-Chloropropane	ND	F1	3.0	0.57	ug/L			09/09/21 13:41	1
1,2,4-Trichlorobenzene	ND	F1 *+ *1	1.0	0.33	ug/L			09/09/21 13:41	1
Hexachlorobutadiene	ND	F1 *+ *1	3.0	0.79	ug/L			09/09/21 13:41	1
Naphthalene	ND	F1 *1	3.0	0.93	ug/L			09/09/21 13:41	1
1,2,3-Trichlorobenzene	ND	F1 *1	2.0	0.43	ug/L			09/09/21 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/09/21 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/09/21 13:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/09/21 13:41*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/09/21 13:41*	*1*

Client Sample ID: MW28-082621
Lab Sample ID: 180-126312-27

Date Collected: 08/26/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H F1	1.0	0.22	ug/L			09/10/21 11:33	1
1,2-Dichloropropane	ND	H F1	1.0	0.18	ug/L			09/10/21 11:33	1
cis-1,3-Dichloropropene	ND	H F1	1.0	0.20	ug/L			09/10/21 11:33	1
Bromobenzene	ND	H F1	1.0	0.43	ug/L			09/10/21 11:33	1
1,1,2,2-Tetrachloroethane	ND	H F1	1.0	0.52	ug/L			09/10/21 11:33	1
N-Propylbenzene	ND	H F1	1.0	0.50	ug/L			09/10/21 11:33	1
2-Chlorotoluene	ND	H F1	1.0	0.51	ug/L			09/10/21 11:33	1
tert-Butylbenzene	ND	H F1	2.0	0.58	ug/L			09/10/21 11:33	1
1,2,4-Trimethylbenzene	ND	H F1	3.0	0.61	ug/L			09/10/21 11:33	1
sec-Butylbenzene	ND	H F1	1.0	0.49	ug/L			09/10/21 11:33	1
4-Isopropyltoluene	ND	H F1	1.0	0.28	ug/L			09/10/21 11:33	1
1,3,5-Trimethylbenzene	ND	H F1	1.0	0.55	ug/L			09/10/21 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/10/21 11:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/10/21 11:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/10/21 11:33*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*09/10/21 11:33*	*1*

Client Sample ID: MW28-082621 DUPLICATE
Lab Sample ID: 180-126312-28

Date Collected: 08/26/21 09:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 14:55	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 14:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 14:55	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 14:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 14:55	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 14:55	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 14:55	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 14:55	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 14:55	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 14:55	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 14:55	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 14:55	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 14:55	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/09/21 14:55	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 14:55	1
Carbon tetrachloride	ND	*+ *1	1.0	0.30	ug/L			09/09/21 14:55	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 14:55	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 14:55	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 14:55	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/09/21 14:55	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 14:55	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 14:55	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 14:55	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 14:55	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 14:55	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW28-082621 DUPLICATE

Date Collected: 08/26/21 09:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 14:55	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 14:55	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 14:55	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 14:55	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 14:55	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 14:55	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 14:55	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 14:55	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 14:55	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 14:55	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 14:55	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 14:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 14:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 14:55	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 14:55	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 14:55	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 14:55	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 14:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 14:55	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 14:55	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 14:55	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 14:55	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*80 - 120*		*09/09/21 14:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*09/09/21 14:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/09/21 14:55*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/09/21 14:55*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 12:48	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 12:48	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 12:48	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 12:48	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 12:48	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 12:48	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 12:48	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 12:48	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 12:48	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 12:48	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 12:48	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/10/21 12:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/10/21 12:48*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/10/21 12:48*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*09/10/21 12:48*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW18-082621
Date Collected: 08/26/21 09:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-29
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 15:20	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 15:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 15:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 15:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 15:20	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 15:20	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 15:20	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 15:20	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 15:20	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 15:20	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 15:20	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 15:20	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 15:20	1
Chloroform	**18**	***1**	1.0	0.26	ug/L			09/09/21 15:20	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 15:20	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 15:20	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 15:20	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 15:20	1
Trichloroethene	**94**	***1**	1.0	0.26	ug/L			09/09/21 15:20	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 15:20	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 15:20	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 15:20	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 15:20	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 15:20	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 15:20	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 15:20	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 15:20	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:20	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 15:20	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 15:20	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 15:20	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 15:20	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 15:20	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 15:20	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 15:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 15:20	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 15:20	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 15:20	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:20	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 15:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 15:20	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 15:20	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 15:20	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 15:20	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/09/21 15:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*09/09/21 15:20*	*1*

Client Sample ID: MW18-082621

Date Collected: 08/26/21 09:45
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-29

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/09/21 15:20*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/09/21 15:20*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 13:12	1
Carbon tetrachloride	**140**	**H**	1.0	0.30	ug/L			09/10/21 13:12	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 13:12	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 13:12	1
Tetrachloroethene	**9.3**	**H**	1.0	0.41	ug/L			09/10/21 13:12	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 13:12	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 13:12	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 13:12	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 13:12	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 13:12	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 13:12	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 13:12	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 13:12	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*09/10/21 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/10/21 13:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/10/21 13:12*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/10/21 13:12*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.20**	**J**	0.50	0.042	mg/L		09/01/21 17:40	09/04/21 12:14	1
Calcium	**39**		0.50	0.034	mg/L		09/01/21 17:40	09/04/21 12:14	1
Iron	**0.34**	**J**	0.50	0.061	mg/L		09/01/21 17:40	09/04/21 12:14	1
Magnesium	**19**		0.50	0.047	mg/L		09/01/21 17:40	09/04/21 12:14	1
Potassium	**0.84**	**J**	3.3	0.17	mg/L		09/01/21 17:40	09/04/21 12:14	1
Sodium	**18**		0.50	0.086	mg/L		09/01/21 17:40	09/04/21 12:14	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00053**	**J**	0.0010	0.00020	mg/L		09/01/21 17:40	09/03/21 13:49	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:40	09/03/21 13:49	1
Barium	**0.0075**		0.0012	0.00021	mg/L		09/01/21 17:40	09/03/21 13:49	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:40	09/03/21 13:49	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:40	09/03/21 13:49	1
Chromium	**0.00092**		0.00080	0.00017	mg/L		09/01/21 17:40	09/03/21 13:49	1
Cobalt	**0.00023**	**J**	0.00040	0.000039	mg/L		09/01/21 17:40	09/03/21 13:49	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:40	09/03/21 13:49	1
Lead	**0.000086**	**J**	0.00040	0.000040	mg/L		09/01/21 17:40	09/03/21 13:49	1
Manganese	**0.013**		0.0020	0.00046	mg/L		09/01/21 17:40	09/03/21 13:49	1
Nickel	**0.00066**	**J**	0.0030	0.00013	mg/L		09/01/21 17:40	09/03/21 13:49	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:40	09/03/21 13:49	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:40	09/03/21 13:49	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW18-082621

Lab Sample ID: 180-126312-29
Date Collected: 08/26/21 09:45
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:40	09/03/21 13:49	1
Vanadium	**0.0092**		0.0040	0.00046	mg/L		09/01/21 17:40	09/03/21 13:49	1
Zinc	**0.0044**	**J**	0.0070	0.00093	mg/L		09/01/21 17:40	09/03/21 13:49	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:52	1

Client Sample ID: MW27-082621

Lab Sample ID: 180-126312-30
Date Collected: 08/26/21 10:00
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 15:45	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 15:45	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 15:45	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 15:45	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 15:45	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 15:45	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 15:45	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 15:45	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 15:45	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 15:45	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 15:45	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 15:45	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 15:45	1
Chloroform	**2.4**	***1**	1.0	0.26	ug/L			09/09/21 15:45	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 15:45	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 15:45	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 15:45	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 15:45	1
Trichloroethene	**0.59**	**J *1**	1.0	0.26	ug/L			09/09/21 15:45	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 15:45	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 15:45	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 15:45	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 15:45	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 15:45	1
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 15:45	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 15:45	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 15:45	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 15:45	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:45	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 15:45	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 15:45	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 15:45	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 15:45	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 15:45	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 15:45	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:45	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW27-082621

Date Collected: 08/26/21 10:00
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 15:45	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 15:45	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 15:45	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 15:45	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 15:45	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 15:45	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 15:45	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 15:45	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 15:45	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 15:45	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/09/21 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/09/21 15:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/09/21 15:45*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/09/21 15:45*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 13:37	1
Carbon tetrachloride	**32**	**H**	1.0	0.30	ug/L			09/10/21 13:37	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 13:37	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 13:37	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 13:37	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 13:37	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 13:37	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 13:37	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 13:37	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 13:37	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 13:37	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 13:37	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/10/21 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/10/21 13:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/10/21 13:37*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/10/21 13:37*	*1*

Client Sample ID: MW15-082621

Date Collected: 08/26/21 10:50
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-31
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 16:09	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 16:09	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 16:09	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 16:09	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 16:09	1

Client Sample ID: MW15-082621
Lab Sample ID: 180-126312-31

Date Collected: 08/26/21 10:50
Matrix: Water
Date Received: 08/28/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 16:09	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 16:09	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 16:09	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 16:09	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 16:09	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 16:09	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 16:09	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:09	1
Chloroform	**0.99**	**J *1**	1.0	0.26	ug/L			09/09/21 16:09	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 16:09	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 16:09	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 16:09	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 16:09	1
Trichloroethene	**130**	***1**	1.0	0.26	ug/L			09/09/21 16:09	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 16:09	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:09	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 16:09	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 16:09	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 16:09	1
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 16:09	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 16:09	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 16:09	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 16:09	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:09	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 16:09	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 16:09	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 16:09	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 16:09	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 16:09	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 16:09	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:09	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 16:09	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 16:09	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 16:09	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:09	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:09	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:09	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 16:09	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 16:09	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 16:09	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 16:09	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*09/09/21 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/09/21 16:09*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/09/21 16:09*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*09/09/21 16:09*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW15-082621

Date Collected: 08/26/21 10:50
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-31

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 14:02	1
Carbon tetrachloride	**9.9**	**H**	1.0	0.30	ug/L			09/10/21 14:02	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 14:02	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 14:02	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 14:02	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 14:02	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 14:02	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 14:02	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 14:02	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 14:02	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 14:02	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 14:02	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/10/21 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/10/21 14:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/10/21 14:02*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/10/21 14:02*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.32**	**J**	0.50	0.042	mg/L		09/01/21 17:40	09/04/21 12:17	1
Calcium	**22**		0.50	0.034	mg/L		09/01/21 17:40	09/04/21 12:17	1
Iron	**0.55**		0.50	0.061	mg/L		09/01/21 17:40	09/04/21 12:17	1
Magnesium	**11**		0.50	0.047	mg/L		09/01/21 17:40	09/04/21 12:17	1
Potassium	**0.63**	**J**	3.3	0.17	mg/L		09/01/21 17:40	09/04/21 12:17	1
Sodium	**17**		0.50	0.086	mg/L		09/01/21 17:40	09/04/21 12:17	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00079**	**J**	0.0010	0.00020	mg/L		09/01/21 17:40	09/03/21 13:52	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 17:40	09/03/21 13:52	1
Barium	**0.0075**		0.0012	0.00021	mg/L		09/01/21 17:40	09/03/21 13:52	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:40	09/03/21 13:52	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:40	09/03/21 13:52	1
Chromium	**0.0027**		0.00080	0.00017	mg/L		09/01/21 17:40	09/03/21 13:52	1
Cobalt	**0.00046**		0.00040	0.000039	mg/L		09/01/21 17:40	09/03/21 13:52	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:40	09/03/21 13:52	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:40	09/03/21 13:52	1
Manganese	**0.043**		0.0020	0.00046	mg/L		09/01/21 17:40	09/03/21 13:52	1
Nickel	**0.00087**	**J**	0.0030	0.00013	mg/L		09/01/21 17:40	09/03/21 13:52	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:40	09/03/21 13:52	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:40	09/03/21 13:52	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:40	09/03/21 13:52	1
Vanadium	**0.0094**		0.0040	0.00046	mg/L		09/01/21 17:40	09/03/21 13:52	1
Zinc	**0.0032**	**J**	0.0070	0.00093	mg/L		09/01/21 17:40	09/03/21 13:52	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW15-082621

Lab Sample ID: 180-126312-31

Date Collected: 08/26/21 10:50
Matrix: Water
Date Received: 08/28/21 09:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:55	1

Client Sample ID: MW16-082621

Lab Sample ID: 180-126312-32

Date Collected: 08/26/21 13:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 16:34	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 16:34	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 16:34	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 16:34	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 16:34	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 16:34	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 16:34	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 16:34	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 16:34	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 16:34	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 16:34	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 16:34	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:34	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/09/21 16:34	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 16:34	1
Carbon tetrachloride	ND	*+ *1	1.0	0.30	ug/L			09/09/21 16:34	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 16:34	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 16:34	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 16:34	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/09/21 16:34	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 16:34	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:34	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 16:34	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 16:34	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 16:34	1
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 16:34	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 16:34	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 16:34	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 16:34	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:34	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 16:34	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 16:34	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 16:34	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 16:34	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 16:34	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 16:34	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:34	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 16:34	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 16:34	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 16:34	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:34	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:34	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW16-082621
Date Collected: 08/26/21 13:05
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:34	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 16:34	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 16:34	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 16:34	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 16:34	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*09/09/21 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/09/21 16:34*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/09/21 16:34*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/09/21 16:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 14:27	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 14:27	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 14:27	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 14:27	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 14:27	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 14:27	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 14:27	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 14:27	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 14:27	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 14:27	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 14:27	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/10/21 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/10/21 14:27*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/10/21 14:27*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/10/21 14:27*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.17**	**J**	0.50	0.042	mg/L		09/01/21 17:40	09/04/21 12:20	1
Calcium	**42**		0.50	0.034	mg/L		09/01/21 17:40	09/04/21 12:20	1
Iron	**120**		0.50	0.061	mg/L		09/01/21 17:40	09/04/21 12:20	1
Magnesium	**17**		0.50	0.047	mg/L		09/01/21 17:40	09/04/21 12:20	1
Potassium	**1.4**	**J**	3.3	0.17	mg/L		09/01/21 17:40	09/04/21 12:20	1
Sodium	**15**		0.50	0.086	mg/L		09/01/21 17:40	09/04/21 12:20	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.18**		0.0010	0.00020	mg/L		09/01/21 17:40	09/03/21 13:56	1
Antimony	**0.00013**	**J B**	0.00080	0.00013	mg/L		09/01/21 17:40	09/03/21 13:56	1
Barium	**0.19**		0.0012	0.00021	mg/L		09/01/21 17:40	09/03/21 13:56	1
Beryllium	**0.00019**	**J**	0.00040	0.00011	mg/L		09/01/21 17:40	09/03/21 13:56	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:40	09/03/21 13:56	1
Chromium	**0.00051**	**J**	0.00080	0.00017	mg/L		09/01/21 17:40	09/03/21 13:56	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW16-082621

Lab Sample ID: 180-126312-32

Date Collected: 08/26/21 13:05
Matrix: Water
Date Received: 08/28/21 09:45

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00061		0.00040	0.000039	mg/L		09/01/21 17:40	09/03/21 13:56	1
Copper	0.00097	J	0.0020	0.00060	mg/L		09/01/21 17:40	09/03/21 13:56	1
Lead	0.000041	J	0.00040	0.000040	mg/L		09/01/21 17:40	09/03/21 13:56	1
Manganese	1.1		0.0020	0.00046	mg/L		09/01/21 17:40	09/03/21 13:56	1
Nickel	0.0018	J	0.0030	0.00013	mg/L		09/01/21 17:40	09/03/21 13:56	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:40	09/03/21 13:56	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:40	09/03/21 13:56	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:40	09/03/21 13:56	1
Vanadium	0.0024	J	0.0040	0.00046	mg/L		09/01/21 17:40	09/03/21 13:56	1
Zinc	0.0040	J	0.0070	0.00093	mg/L		09/01/21 17:40	09/03/21 13:56	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:57	1

Client Sample ID: MW-7-082621

Lab Sample ID: 180-126312-33

Date Collected: 08/26/21 13:50
Matrix: Water
Date Received: 08/28/21 09:45

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 16:59	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 16:59	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 16:59	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 16:59	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 16:59	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 16:59	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 16:59	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 16:59	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 16:59	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 16:59	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 16:59	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 16:59	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:59	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/09/21 16:59	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 16:59	1
Carbon tetrachloride	ND	*+ *1	1.0	0.30	ug/L			09/09/21 16:59	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 16:59	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 16:59	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 16:59	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/09/21 16:59	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 16:59	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 16:59	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 16:59	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 16:59	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 16:59	1
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 16:59	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 16:59	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 16:59	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 16:59	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: MW-7-082621
Date Collected: 08/26/21 13:50
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:59	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 16:59	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 16:59	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 16:59	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 16:59	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 16:59	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 16:59	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:59	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 16:59	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 16:59	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 16:59	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:59	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 16:59	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 16:59	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 16:59	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 16:59	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 16:59	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 16:59	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*09/09/21 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/09/21 16:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/09/21 16:59*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/09/21 16:59*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 14:51	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 14:51	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 14:51	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 14:51	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 14:51	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 14:51	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 14:51	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 14:51	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 14:51	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 14:51	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 14:51	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/10/21 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/10/21 14:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/10/21 14:51*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/10/21 14:51*	*1*

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: TRIP BLANK

Date Collected: 08/26/21 00:00
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-34

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*+	1.0	0.53	ug/L			09/09/21 17:24	1
Chloromethane	ND	*+	1.0	0.28	ug/L			09/09/21 17:24	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 17:24	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 17:24	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 17:24	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 17:24	1
1,1-Dichloroethene	ND	*1	1.0	0.28	ug/L			09/09/21 17:24	1
Methylene Chloride	ND	*1	3.0	1.4	ug/L			09/09/21 17:24	1
Methyl tert-butyl ether	ND	*1	1.0	0.44	ug/L			09/09/21 17:24	1
trans-1,2-Dichloroethene	ND	*1	1.0	0.39	ug/L			09/09/21 17:24	1
2,2-Dichloropropane	ND	*1	1.0	0.32	ug/L			09/09/21 17:24	1
cis-1,2-Dichloroethene	ND	*1	1.0	0.35	ug/L			09/09/21 17:24	1
Chlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 17:24	1
Chloroform	ND	*1	1.0	0.26	ug/L			09/09/21 17:24	1
1,1,1-Trichloroethane	ND	*1	1.0	0.39	ug/L			09/09/21 17:24	1
Carbon tetrachloride	ND	*+ *1	1.0	0.30	ug/L			09/09/21 17:24	1
1,1-Dichloropropene	ND	*1	1.0	0.29	ug/L			09/09/21 17:24	1
Benzene	ND	*1	1.0	0.24	ug/L			09/09/21 17:24	1
1,2-Dichloroethane	ND	*1	1.0	0.42	ug/L			09/09/21 17:24	1
Trichloroethene	ND	*1	1.0	0.26	ug/L			09/09/21 17:24	1
Dibromomethane	ND	*1	1.0	0.34	ug/L			09/09/21 17:24	1
Dichlorobromomethane	ND	*1	1.0	0.29	ug/L			09/09/21 17:24	1
Toluene	ND	*1	1.0	0.39	ug/L			09/09/21 17:24	1
trans-1,3-Dichloropropene	ND	*1	1.0	0.41	ug/L			09/09/21 17:24	1
1,1,2-Trichloroethane	ND	*1	1.0	0.24	ug/L			09/09/21 17:24	1
Tetrachloroethene	ND	*1	1.0	0.41	ug/L			09/09/21 17:24	1
1,3-Dichloropropane	ND	*1	1.0	0.35	ug/L			09/09/21 17:24	1
Chlorodibromomethane	ND	*+ *1	1.0	0.43	ug/L			09/09/21 17:24	1
Ethylene Dibromide	ND	*1	1.0	0.40	ug/L			09/09/21 17:24	1
Chlorobenzene	ND	*1	1.0	0.44	ug/L			09/09/21 17:24	1
1,1,1,2-Tetrachloroethane	ND	*+ *1	1.0	0.18	ug/L			09/09/21 17:24	1
Ethylbenzene	ND	*1	1.0	0.50	ug/L			09/09/21 17:24	1
m-Xylene & p-Xylene	ND	*1	2.0	0.53	ug/L			09/09/21 17:24	1
o-Xylene	ND	*1	1.0	0.39	ug/L			09/09/21 17:24	1
Styrene	ND	*1	1.0	0.53	ug/L			09/09/21 17:24	1
Bromoform	ND	*+ *1	1.0	0.51	ug/L			09/09/21 17:24	1
Isopropylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 17:24	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 17:24	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 17:24	1
1,3-Dichlorobenzene	ND	*+	1.0	0.48	ug/L			09/09/21 17:24	1
1,4-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 17:24	1
n-Butylbenzene	ND	*1	1.0	0.44	ug/L			09/09/21 17:24	1
1,2-Dichlorobenzene	ND	*1	1.0	0.46	ug/L			09/09/21 17:24	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 17:24	1
1,2,4-Trichlorobenzene	ND	*+ *1	1.0	0.33	ug/L			09/09/21 17:24	1
Hexachlorobutadiene	ND	*+ *1	3.0	0.79	ug/L			09/09/21 17:24	1
Naphthalene	ND	*1	3.0	0.93	ug/L			09/09/21 17:24	1
1,2,3-Trichlorobenzene	ND	*1	2.0	0.43	ug/L			09/09/21 17:24	1

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

Client Sample ID: TRIP BLANK

Date Collected: 08/26/21 00:00
Date Received: 08/28/21 09:45

Lab Sample ID: 180-126312-34

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*114*		*80 - 120*		*09/09/21 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/09/21 17:24*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/09/21 17:24*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/09/21 17:24*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	H	1.0	0.22	ug/L			09/10/21 15:16	1
1,2-Dichloropropane	ND	H	1.0	0.18	ug/L			09/10/21 15:16	1
cis-1,3-Dichloropropene	ND	H	1.0	0.20	ug/L			09/10/21 15:16	1
Bromobenzene	ND	H	1.0	0.43	ug/L			09/10/21 15:16	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.52	ug/L			09/10/21 15:16	1
N-Propylbenzene	ND	H	1.0	0.50	ug/L			09/10/21 15:16	1
2-Chlorotoluene	ND	H	1.0	0.51	ug/L			09/10/21 15:16	1
tert-Butylbenzene	ND	H	2.0	0.58	ug/L			09/10/21 15:16	1
1,2,4-Trimethylbenzene	ND	H	3.0	0.61	ug/L			09/10/21 15:16	1
sec-Butylbenzene	ND	H	1.0	0.49	ug/L			09/10/21 15:16	1
4-Isopropyltoluene	ND	H	1.0	0.28	ug/L			09/10/21 15:16	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.55	ug/L			09/10/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*112*		*80 - 120*		*09/10/21 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/10/21 15:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/10/21 15:16*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/10/21 15:16*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-366920/4
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			09/02/21 14:40	1
Chloromethane	ND		1.0	0.28	ug/L			09/02/21 14:40	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/02/21 14:40	1
Bromomethane	ND		1.0	0.21	ug/L			09/02/21 14:40	1
Chloroethane	ND		1.0	0.35	ug/L			09/02/21 14:40	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/02/21 14:40	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/02/21 14:40	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/02/21 14:40	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/02/21 14:40	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/02/21 14:40	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/02/21 14:40	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/02/21 14:40	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/02/21 14:40	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 14:40	1
Chloroform	ND		1.0	0.26	ug/L			09/02/21 14:40	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/02/21 14:40	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/02/21 14:40	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/02/21 14:40	1
Benzene	ND		1.0	0.24	ug/L			09/02/21 14:40	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/02/21 14:40	1
Trichloroethene	ND		1.0	0.26	ug/L			09/02/21 14:40	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/02/21 14:40	1
Dibromomethane	ND		1.0	0.34	ug/L			09/02/21 14:40	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/02/21 14:40	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/02/21 14:40	1
Toluene	ND		1.0	0.39	ug/L			09/02/21 14:40	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/02/21 14:40	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/02/21 14:40	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/02/21 14:40	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/02/21 14:40	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/02/21 14:40	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/02/21 14:40	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/02/21 14:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/02/21 14:40	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/02/21 14:40	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/02/21 14:40	1
o-Xylene	ND		1.0	0.39	ug/L			09/02/21 14:40	1
Styrene	ND		1.0	0.53	ug/L			09/02/21 14:40	1
Bromoform	ND		1.0	0.51	ug/L			09/02/21 14:40	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/02/21 14:40	1
Bromobenzene	ND		1.0	0.43	ug/L			09/02/21 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/02/21 14:40	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/02/21 14:40	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/02/21 14:40	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/02/21 14:40	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/02/21 14:40	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/02/21 14:40	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/02/21 14:40	1

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

Lab Sample ID: MB 580-366920/4
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/02/21 14:40	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/02/21 14:40	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/02/21 14:40	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 14:40	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/02/21 14:40	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/02/21 14:40	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/02/21 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/02/21 14:40	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/02/21 14:40	1
Naphthalene	ND		3.0	0.93	ug/L			09/02/21 14:40	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/02/21 14:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/02/21 14:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/02/21 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*09/02/21 14:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/02/21 14:40*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/02/21 14:40*	*1*

Lab Sample ID: LCS 580-366920/5
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	52.4	*+	ug/L		262	20 - 150
Chloromethane	20.0	30.9	*+	ug/L		155	25 - 150
Vinyl chloride	20.0	30.9	*+	ug/L		154	31 - 150
Bromomethane	20.0	26.6		ug/L		133	36 - 150
Chloroethane	20.0	25.7		ug/L		128	38 - 150
Trichlorofluoromethane	20.0	27.7		ug/L		139	45 - 148
1,1-Dichloroethene	20.0	22.1		ug/L		110	70 - 129
Methylene Chloride	20.0	20.2		ug/L		101	77 - 125
Methyl tert-butyl ether	20.0	20.1		ug/L		100	72 - 120
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	75 - 120
1,1-Dichloroethane	20.0	20.4		ug/L		102	80 - 120
2,2-Dichloropropane	20.0	22.4		ug/L		112	66 - 126
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	76 - 120
Chlorobromomethane	20.0	21.9		ug/L		109	78 - 120
Chloroform	20.0	21.2		ug/L		106	78 - 127
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	74 - 130
Carbon tetrachloride	20.0	23.4		ug/L		117	72 - 129
1,1-Dichloropropene	20.0	21.7		ug/L		108	74 - 120
Benzene	20.0	21.6		ug/L		108	80 - 122
1,2-Dichloroethane	20.0	20.6		ug/L		103	69 - 126
Trichloroethene	20.0	22.2		ug/L		111	80 - 125
1,2-Dichloropropane	20.0	21.6		ug/L		108	80 - 120
Dibromomethane	20.0	22.1		ug/L		110	80 - 120
Dichlorobromomethane	20.0	21.7		ug/L		108	75 - 124

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126312-1

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

Lab Sample ID: LCS 580-366920/5
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	21.4		ug/L		107	77 - 120
Toluene	20.0	21.2		ug/L		106	80 - 120
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	76 - 122
1,1,2-Trichloroethane	20.0	22.6		ug/L		113	80 - 121
Tetrachloroethene	20.0	21.5		ug/L		107	76 - 125
1,3-Dichloropropane	20.0	21.6		ug/L		108	79 - 120
Chlorodibromomethane	20.0	23.2		ug/L		116	73 - 125
Ethylene Dibromide	20.0	22.5		ug/L		112	79 - 126
Chlorobenzene	20.0	22.0		ug/L		110	80 - 120
1,1,1,2-Tetrachloroethane	20.0	22.0		ug/L		110	79 - 120
Ethylbenzene	20.0	20.6		ug/L		103	80 - 120
m-Xylene & p-Xylene	20.0	20.8		ug/L		104	80 - 120
o-Xylene	20.0	20.4		ug/L		102	80 - 120
Styrene	20.0	21.4		ug/L		107	76 - 122
Bromoform	20.0	26.8		ug/L		134	56 - 139
Isopropylbenzene	20.0	20.8		ug/L		104	80 - 123
Bromobenzene	20.0	20.9		ug/L		105	80 - 120
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	74 - 124
1,2,3-Trichloropropane	20.0	21.3		ug/L		106	76 - 124
N-Propylbenzene	20.0	20.4		ug/L		102	80 - 122
2-Chlorotoluene	20.0	21.5		ug/L		107	80 - 120
4-Chlorotoluene	20.0	21.3		ug/L		106	73 - 129
tert-Butylbenzene	20.0	21.0		ug/L		105	75 - 123
1,2,4-Trimethylbenzene	20.0	21.5		ug/L		107	80 - 120
sec-Butylbenzene	20.0	20.4		ug/L		102	78 - 122
4-Isopropyltoluene	20.0	20.3		ug/L		101	77 - 126
1,3-Dichlorobenzene	20.0	23.8		ug/L		119	77 - 127
1,4-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120
n-Butylbenzene	20.0	22.0		ug/L		110	57 - 133
1,2-Dichlorobenzene	20.0	23.2		ug/L		116	80 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		99	65 - 133
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		103	61 - 148
Hexachlorobutadiene	20.0	20.0		ug/L		100	74 - 131
Naphthalene	20.0	19.1		ug/L		95	63 - 150
1,2,3-Trichlorobenzene	20.0	17.9		ug/L		90	65 - 150
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*

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

Lab Sample ID: LCSD 580-366920/6
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	20.0	47.1	*+	ug/L		235	20 - 150	11	33
Chloromethane	20.0	31.1	*+	ug/L		155	25 - 150	1	26
Vinyl chloride	20.0	29.0		ug/L		145	31 - 150	6	26
Bromomethane	20.0	25.4		ug/L		127	36 - 150	5	33
Chloroethane	20.0	23.8		ug/L		119	38 - 150	7	28
Trichlorofluoromethane	20.0	25.7		ug/L		128	45 - 148	8	35
1,1-Dichloroethene	20.0	20.1		ug/L		101	70 - 129	9	23
Methylene Chloride	20.0	18.3		ug/L		92	77 - 125	10	18
Methyl tert-butyl ether	20.0	18.4		ug/L		92	72 - 120	9	18
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 120	11	21
1,1-Dichloroethane	20.0	18.1		ug/L		91	80 - 120	12	15
2,2-Dichloropropane	20.0	19.7		ug/L		98	66 - 126	13	22
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	76 - 120	13	20
Chlorobromomethane	20.0	19.8		ug/L		99	78 - 120	10	13
Chloroform	20.0	18.6		ug/L		93	78 - 127	13	14
1,1,1-Trichloroethane	20.0	18.9		ug/L		94	74 - 130	10	19
Carbon tetrachloride	20.0	20.5		ug/L		103	72 - 129	13	19
1,1-Dichloropropene	20.0	19.4		ug/L		97	74 - 120	11	14
Benzene	20.0	18.6	*1	ug/L		93	80 - 122	15	14
1,2-Dichloroethane	20.0	18.6		ug/L		93	69 - 126	10	11
Trichloroethene	20.0	18.8	*1	ug/L		94	80 - 125	16	13
1,2-Dichloropropane	20.0	18.2	*1	ug/L		91	80 - 120	17	14
Dibromomethane	20.0	19.9		ug/L		100	80 - 120	10	11
Dichlorobromomethane	20.0	18.8	*1	ug/L		94	75 - 124	14	13
cis-1,3-Dichloropropene	20.0	17.9		ug/L		89	77 - 120	18	35
Toluene	20.0	18.2	*1	ug/L		91	80 - 120	15	13
trans-1,3-Dichloropropene	20.0	18.3		ug/L		91	76 - 122	14	20
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	80 - 121	13	14
Tetrachloroethene	20.0	19.6		ug/L		98	76 - 125	9	13
1,3-Dichloropropane	20.0	19.0		ug/L		95	79 - 120	13	19
Chlorodibromomethane	20.0	20.7		ug/L		104	73 - 125	11	13
Ethylene Dibromide	20.0	20.1		ug/L		101	79 - 126	11	12
Chlorobenzene	20.0	19.2	*1	ug/L		96	80 - 120	14	10
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	79 - 120	12	16
Ethylbenzene	20.0	17.7	*1	ug/L		88	80 - 120	15	14
m-Xylene & p-Xylene	20.0	17.6	*1	ug/L		88	80 - 120	16	14
o-Xylene	20.0	17.7		ug/L		89	80 - 120	14	16
Styrene	20.0	18.5		ug/L		93	76 - 122	14	16
Bromoform	20.0	24.1		ug/L		120	56 - 139	10	21
Isopropylbenzene	20.0	17.9		ug/L		90	80 - 123	15	19
Bromobenzene	20.0	17.6		ug/L		88	80 - 120	17	24
1,1,2,2-Tetrachloroethane	20.0	18.4		ug/L		92	74 - 124	9	25
1,2,3-Trichloropropane	20.0	19.0		ug/L		95	76 - 124	12	26
N-Propylbenzene	20.0	16.5		ug/L		83	80 - 122	21	22
2-Chlorotoluene	20.0	18.2		ug/L		91	80 - 120	16	20
4-Chlorotoluene	20.0	18.0		ug/L		90	73 - 129	17	29
tert-Butylbenzene	20.0	17.4		ug/L		87	75 - 123	19	21
1,2,4-Trimethylbenzene	20.0	17.6	*1	ug/L		88	80 - 120	20	16

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

Lab Sample ID: LCSD 580-366920/6
Matrix: Water
Analysis Batch: 366920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			20.0	16.9	*1	ug/L		85	78 - 122	18	15
4-Isopropyltoluene			20.0	16.8		ug/L		84	77 - 126	19	20
1,3-Dichlorobenzene			20.0	21.4		ug/L		107	77 - 127	11	35
1,4-Dichlorobenzene			20.0	17.9		ug/L		89	80 - 120	17	17
n-Butylbenzene			20.0	18.1	*1	ug/L		90	57 - 133	19	14
1,2-Dichlorobenzene			20.0	19.7	*1	ug/L		98	80 - 120	16	15
1,2-Dibromo-3-Chloropropane			20.0	19.1		ug/L		96	65 - 133	3	25
1,2,4-Trichlorobenzene			20.0	21.3		ug/L		106	61 - 148	3	27
Hexachlorobutadiene			20.0	18.6		ug/L		93	74 - 131	7	22
Naphthalene			20.0	21.1		ug/L		106	63 - 150	10	33
1,2,3-Trichlorobenzene			20.0	19.7		ug/L		99	65 - 150	10	33
1,3,5-Trimethylbenzene			20.0	17.2		ug/L		86	80 - 122	18	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-367090/7
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			09/03/21 13:06	1
Chloromethane	ND		1.0	0.28	ug/L			09/03/21 13:06	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/03/21 13:06	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/21 13:06	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/21 13:06	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/21 13:06	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/21 13:06	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/21 13:06	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/21 13:06	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/21 13:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/21 13:06	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/21 13:06	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/03/21 13:06	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 13:06	1
Chloroform	ND		1.0	0.26	ug/L			09/03/21 13:06	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/21 13:06	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/21 13:06	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/21 13:06	1
Benzene	ND		1.0	0.24	ug/L			09/03/21 13:06	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/21 13:06	1
Trichloroethene	ND		1.0	0.26	ug/L			09/03/21 13:06	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/21 13:06	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/21 13:06	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/21 13:06	1

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

Lab Sample ID: MB 580-367090/7
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/03/21 13:06	1
Toluene	ND		1.0	0.39	ug/L			09/03/21 13:06	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/21 13:06	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/21 13:06	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/21 13:06	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/21 13:06	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/21 13:06	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/21 13:06	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/21 13:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/21 13:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/21 13:06	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/21 13:06	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/21 13:06	1
Styrene	ND		1.0	0.53	ug/L			09/03/21 13:06	1
Bromoform	ND		1.0	0.51	ug/L			09/03/21 13:06	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/21 13:06	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/21 13:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/21 13:06	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/21 13:06	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/21 13:06	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/21 13:06	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/21 13:06	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/21 13:06	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/21 13:06	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/03/21 13:06	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/21 13:06	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/03/21 13:06	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 13:06	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/21 13:06	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/21 13:06	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/21 13:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/03/21 13:06	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/21 13:06	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/21 13:06	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/03/21 13:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/21 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/03/21 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*09/03/21 13:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/03/21 13:06*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/03/21 13:06*	*1*

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

Lab Sample ID: LCS 580-367090/4
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	22.5	*+	ug/L		225	20 - 150
Chloromethane	10.0	14.0		ug/L		140	25 - 150
Vinyl chloride	10.0	14.0		ug/L		140	31 - 150
Bromomethane	10.0	12.9		ug/L		129	36 - 150
Chloroethane	10.0	12.1		ug/L		121	38 - 150
Trichlorofluoromethane	10.0	13.8		ug/L		138	45 - 148
1,1-Dichloroethene	10.0	11.5		ug/L		115	70 - 129
Methylene Chloride	10.0	10.9		ug/L		109	77 - 125
Methyl tert-butyl ether	10.0	10.0		ug/L		100	72 - 120
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	75 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	80 - 120
2,2-Dichloropropane	10.0	11.9		ug/L		119	66 - 126
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	76 - 120
Chlorobromomethane	10.0	10.9		ug/L		109	78 - 120
Chloroform	10.0	11.3		ug/L		113	78 - 127
1,1,1-Trichloroethane	10.0	11.2		ug/L		112	74 - 130
Carbon tetrachloride	10.0	12.3		ug/L		123	72 - 129
1,1-Dichloropropene	10.0	11.5		ug/L		115	74 - 120
Benzene	10.0	11.1		ug/L		111	80 - 122
1,2-Dichloroethane	10.0	10.2		ug/L		102	69 - 126
Trichloroethene	10.0	11.8		ug/L		118	80 - 125
1,2-Dichloropropane	10.0	11.1		ug/L		111	80 - 120
Dibromomethane	10.0	11.6		ug/L		116	80 - 120
Dichlorobromomethane	10.0	11.3		ug/L		113	75 - 124
cis-1,3-Dichloropropene	10.0	10.7		ug/L		107	77 - 120
Toluene	10.0	10.9		ug/L		109	80 - 120
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	76 - 122
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 121
Tetrachloroethene	10.0	11.4		ug/L		114	76 - 125
1,3-Dichloropropane	10.0	10.9		ug/L		109	79 - 120
Chlorodibromomethane	10.0	12.5		ug/L		125	73 - 125
Ethylene Dibromide	10.0	11.7		ug/L		117	79 - 126
Chlorobenzene	10.0	11.5		ug/L		115	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.8		ug/L		118	79 - 120
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
m-Xylene & p-Xylene	10.0	10.8		ug/L		108	80 - 120
o-Xylene	10.0	10.7		ug/L		107	80 - 120
Styrene	10.0	11.2		ug/L		112	76 - 122
Bromoform	10.0	14.4	*+	ug/L		144	56 - 139
Isopropylbenzene	10.0	10.9		ug/L		109	80 - 123
Bromobenzene	10.0	10.6		ug/L		106	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	74 - 124
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	76 - 124
N-Propylbenzene	10.0	10.3		ug/L		103	80 - 122
2-Chlorotoluene	10.0	10.9		ug/L		109	80 - 120
4-Chlorotoluene	10.0	10.7		ug/L		107	73 - 129
tert-Butylbenzene	10.0	10.5		ug/L		105	75 - 123
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	80 - 120

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

Lab Sample ID: LCS 580-367090/4
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	10.0	10.4		ug/L		104	78 - 122
4-Isopropyltoluene	10.0	10.1		ug/L		101	77 - 126
1,3-Dichlorobenzene	10.0	13.0	*+	ug/L		130	77 - 127
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
n-Butylbenzene	10.0	11.0		ug/L		110	57 - 133
1,2-Dichlorobenzene	10.0	12.0		ug/L		120	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.0		ug/L		110	65 - 133
1,2,4-Trichlorobenzene	10.0	13.5		ug/L		135	61 - 148
Hexachlorobutadiene	10.0	11.9		ug/L		119	74 - 131
Naphthalene	10.0	11.4		ug/L		114	63 - 150
1,2,3-Trichlorobenzene	10.0	10.8		ug/L		108	65 - 150
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 580-367090/5
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	23.6	*+	ug/L		236	20 - 150	5	33
Chloromethane	10.0	16.4	*+	ug/L		164	25 - 150	16	26
Vinyl chloride	10.0	15.7	*+	ug/L		157	31 - 150	12	26
Bromomethane	10.0	14.1		ug/L		141	36 - 150	9	33
Chloroethane	10.0	13.0		ug/L		130	38 - 150	8	28
Trichlorofluoromethane	10.0	14.7		ug/L		147	45 - 148	6	35
1,1-Dichloroethene	10.0	11.9		ug/L		119	70 - 129	3	23
Methylene Chloride	10.0	10.8		ug/L		108	77 - 125	0	18
Methyl tert-butyl ether	10.0	10.4		ug/L		104	72 - 120	4	18
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	75 - 120	3	21
1,1-Dichloroethane	10.0	10.4		ug/L		104	80 - 120	2	15
2,2-Dichloropropane	10.0	12.1		ug/L		121	66 - 126	1	22
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	76 - 120	1	20
Chlorobromomethane	10.0	10.6		ug/L		106	78 - 120	2	13
Chloroform	10.0	11.1		ug/L		111	78 - 127	2	14
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	74 - 130	3	19
Carbon tetrachloride	10.0	12.5		ug/L		125	72 - 129	1	19
1,1-Dichloropropene	10.0	11.5		ug/L		115	74 - 120	0	14
Benzene	10.0	11.1		ug/L		111	80 - 122	0	14
1,2-Dichloroethane	10.0	10.2		ug/L		102	69 - 126	1	11
Trichloroethene	10.0	11.6		ug/L		116	80 - 125	1	13
1,2-Dichloropropane	10.0	11.1		ug/L		111	80 - 120	0	14
Dibromomethane	10.0	11.4		ug/L		114	80 - 120	1	11
Dichlorobromomethane	10.0	11.3		ug/L		113	75 - 124	1	13

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

Lab Sample ID: LCSD 580-367090/5
Matrix: Water
Analysis Batch: 367090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			10.0	10.7		ug/L		107	77 - 120	0	35
Toluene			10.0	10.8		ug/L		108	80 - 120	1	13
trans-1,3-Dichloropropene			10.0	10.7		ug/L		107	76 - 122	1	20
1,1,2-Trichloroethane			10.0	11.5		ug/L		115	80 - 121	1	14
Tetrachloroethene			10.0	11.2		ug/L		112	76 - 125	1	13
1,3-Dichloropropane			10.0	10.9		ug/L		109	79 - 120	0	19
Chlorodibromomethane			10.0	12.3		ug/L		123	73 - 125	1	13
Ethylene Dibromide			10.0	11.9		ug/L		119	79 - 126	2	12
Chlorobenzene			10.0	11.2		ug/L		112	80 - 120	2	10
1,1,1,2-Tetrachloroethane			10.0	11.4		ug/L		114	79 - 120	3	16
Ethylbenzene			10.0	10.4		ug/L		104	80 - 120	2	14
m-Xylene & p-Xylene			10.0	10.5		ug/L		105	80 - 120	3	14
o-Xylene			10.0	10.3		ug/L		103	80 - 120	4	16
Styrene			10.0	11.0		ug/L		110	76 - 122	2	16
Bromoform			10.0	15.0	*+	ug/L		150	56 - 139	4	21
Isopropylbenzene			10.0	10.6		ug/L		106	80 - 123	3	19
Bromobenzene			10.0	11.0		ug/L		110	80 - 120	3	24
1,1,2,2-Tetrachloroethane			10.0	11.2		ug/L		112	74 - 124	7	25
1,2,3-Trichloropropane			10.0	11.2		ug/L		112	76 - 124	5	26
N-Propylbenzene			10.0	10.1		ug/L		101	80 - 122	2	22
2-Chlorotoluene			10.0	10.9		ug/L		109	80 - 120	0	20
4-Chlorotoluene			10.0	10.6		ug/L		106	73 - 129	1	29
tert-Butylbenzene			10.0	10.4		ug/L		104	75 - 123	1	21
1,2,4-Trimethylbenzene			10.0	10.8		ug/L		108	80 - 120	1	16
sec-Butylbenzene			10.0	10.3		ug/L		103	78 - 122	0	15
4-Isopropyltoluene			10.0	10.1		ug/L		101	77 - 126	0	20
1,3-Dichlorobenzene			10.0	12.6		ug/L		126	77 - 127	3	35
1,4-Dichlorobenzene			10.0	10.9		ug/L		109	80 - 120	1	17
n-Butylbenzene			10.0	11.1		ug/L		111	57 - 133	1	14
1,2-Dichlorobenzene			10.0	11.9		ug/L		119	80 - 120	2	15
1,2-Dibromo-3-Chloropropane			10.0	11.3		ug/L		113	65 - 133	3	25
1,2,4-Trichlorobenzene			10.0	12.0		ug/L		120	61 - 148	12	27
Hexachlorobutadiene			10.0	11.8		ug/L		118	74 - 131	1	22
Naphthalene			10.0	11.4		ug/L		114	63 - 150	0	33
1,2,3-Trichlorobenzene			10.0	11.0		ug/L		110	65 - 150	2	33
1,3,5-Trimethylbenzene			10.0	10.3		ug/L		103	80 - 122	0	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

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

Lab Sample ID: MB 580-367095/7
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			09/04/21 00:14	1
Chloromethane	ND		1.0	0.28	ug/L			09/04/21 00:14	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/04/21 00:14	1
Bromomethane	ND		1.0	0.21	ug/L			09/04/21 00:14	1
Chloroethane	ND		1.0	0.35	ug/L			09/04/21 00:14	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/21 00:14	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/21 00:14	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/21 00:14	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/21 00:14	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/21 00:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/21 00:14	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/21 00:14	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/04/21 00:14	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 00:14	1
Chloroform	ND		1.0	0.26	ug/L			09/04/21 00:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/21 00:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/04/21 00:14	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/21 00:14	1
Benzene	ND		1.0	0.24	ug/L			09/04/21 00:14	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/21 00:14	1
Trichloroethene	ND		1.0	0.26	ug/L			09/04/21 00:14	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/21 00:14	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/21 00:14	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/21 00:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/04/21 00:14	1
Toluene	ND		1.0	0.39	ug/L			09/04/21 00:14	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/21 00:14	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/21 00:14	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/04/21 00:14	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/21 00:14	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/21 00:14	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/21 00:14	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/21 00:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/21 00:14	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/21 00:14	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/21 00:14	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/21 00:14	1
Styrene	ND		1.0	0.53	ug/L			09/04/21 00:14	1
Bromoform	ND		1.0	0.51	ug/L			09/04/21 00:14	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/21 00:14	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/21 00:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/21 00:14	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/21 00:14	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/21 00:14	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/21 00:14	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/21 00:14	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/21 00:14	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/21 00:14	1

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

Lab Sample ID: MB 580-367095/7
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/21 00:14	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/04/21 00:14	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/21 00:14	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 00:14	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/21 00:14	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/21 00:14	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/21 00:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/21 00:14	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/21 00:14	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/21 00:14	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/21 00:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/21 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/04/21 00:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*09/04/21 00:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/04/21 00:14*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*09/04/21 00:14*	*1*

Lab Sample ID: LCS 580-367095/4
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	39.3	*+	ug/L		393	20 - 150
Chloromethane	10.0	20.5	*+	ug/L		205	25 - 150
Vinyl chloride	10.0	18.7	*+	ug/L		187	31 - 150
Bromomethane	10.0	16.6	*+	ug/L		166	36 - 150
Chloroethane	10.0	15.1	*+	ug/L		151	38 - 150
Trichlorofluoromethane	10.0	12.1		ug/L		121	45 - 148
1,1-Dichloroethene	10.0	12.9		ug/L		129	70 - 129
Methylene Chloride	10.0	11.3		ug/L		113	77 - 125
Methyl tert-butyl ether	10.0	10.5		ug/L		105	72 - 120
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	75 - 120
1,1-Dichloroethane	10.0	11.0		ug/L		110	80 - 120
2,2-Dichloropropane	10.0	11.8		ug/L		118	66 - 126
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	76 - 120
Chlorobromomethane	10.0	11.7		ug/L		117	78 - 120
Chloroform	10.0	11.2		ug/L		112	78 - 127
1,1,1-Trichloroethane	10.0	11.9		ug/L		119	74 - 130
Carbon tetrachloride	10.0	13.3	*+	ug/L		133	72 - 129
1,1-Dichloropropene	10.0	11.9		ug/L		119	74 - 120
Benzene	10.0	11.3		ug/L		113	80 - 122
1,2-Dichloroethane	10.0	11.0		ug/L		110	69 - 126
Trichloroethene	10.0	12.1		ug/L		121	80 - 125
1,2-Dichloropropane	10.0	10.9		ug/L		109	80 - 120
Dibromomethane	10.0	11.8		ug/L		118	80 - 120
Dichlorobromomethane	10.0	11.3		ug/L		113	75 - 124

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

Lab Sample ID: LCS 580-367095/4
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	10.3		ug/L		103	77 - 120
Toluene	10.0	11.1		ug/L		111	80 - 120
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	76 - 122
1,1,2-Trichloroethane	10.0	11.6		ug/L		116	80 - 121
Tetrachloroethene	10.0	12.0		ug/L		120	76 - 125
1,3-Dichloropropane	10.0	11.0		ug/L		110	79 - 120
Chlorodibromomethane	10.0	12.4		ug/L		124	73 - 125
Ethylene Dibromide	10.0	12.0		ug/L		120	79 - 126
Chlorobenzene	10.0	11.4		ug/L		114	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.2		ug/L		112	79 - 120
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Styrene	10.0	10.7		ug/L		107	76 - 122
Bromoform	10.0	14.5	*+	ug/L		145	56 - 139
Isopropylbenzene	10.0	10.4		ug/L		104	80 - 123
Bromobenzene	10.0	10.4		ug/L		104	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.0		ug/L		100	74 - 124
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	76 - 124
N-Propylbenzene	10.0	9.65		ug/L		96	80 - 122
2-Chlorotoluene	10.0	10.4		ug/L		104	80 - 120
4-Chlorotoluene	10.0	10.0		ug/L		100	73 - 129
tert-Butylbenzene	10.0	10.1		ug/L		101	75 - 123
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	80 - 120
sec-Butylbenzene	10.0	9.74		ug/L		97	78 - 122
4-Isopropyltoluene	10.0	9.57		ug/L		96	77 - 126
1,3-Dichlorobenzene	10.0	12.5		ug/L		125	77 - 127
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
n-Butylbenzene	10.0	9.97		ug/L		100	57 - 133
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	65 - 133
1,2,4-Trichlorobenzene	10.0	10.5		ug/L		105	61 - 148
Hexachlorobutadiene	10.0	9.64		ug/L		96	74 - 131
Naphthalene	10.0	10.5		ug/L		105	63 - 150
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	65 - 150
1,3,5-Trimethylbenzene	10.0	9.96		ug/L		100	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*

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

Lab Sample ID: LCSD 580-367095/5
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			10.0	40.2	*+	ug/L		402	20 - 150	2	33
Chloromethane			10.0	20.1	*+	ug/L		201	25 - 150	2	26
Vinyl chloride			10.0	18.0	*+	ug/L		180	31 - 150	4	26
Bromomethane			10.0	15.6	*+	ug/L		156	36 - 150	6	33
Chloroethane			10.0	14.6		ug/L		146	38 - 150	3	28
Trichlorofluoromethane			10.0	11.0		ug/L		110	45 - 148	9	35
1,1-Dichloroethene			10.0	12.3		ug/L		123	70 - 129	4	23
Methylene Chloride			10.0	11.0		ug/L		110	77 - 125	2	18
Methyl tert-butyl ether			10.0	10.4		ug/L		104	72 - 120	1	18
trans-1,2-Dichloroethene			10.0	11.5		ug/L		115	75 - 120	1	21
1,1-Dichloroethane			10.0	11.2		ug/L		112	80 - 120	2	15
2,2-Dichloropropane			10.0	11.5		ug/L		115	66 - 126	2	22
cis-1,2-Dichloroethene			10.0	11.4		ug/L		114	76 - 120	1	20
Chlorobromomethane			10.0	11.1		ug/L		111	78 - 120	5	13
Chloroform			10.0	11.6		ug/L		116	78 - 127	3	14
1,1,1-Trichloroethane			10.0	11.5		ug/L		115	74 - 130	3	19
Carbon tetrachloride			10.0	13.1	*+	ug/L		131	72 - 129	1	19
1,1-Dichloropropene			10.0	11.7		ug/L		117	74 - 120	2	14
Benzene			10.0	11.6		ug/L		116	80 - 122	3	14
1,2-Dichloroethane			10.0	10.4		ug/L		104	69 - 126	5	11
Trichloroethene			10.0	12.5		ug/L		125	80 - 125	3	13
1,2-Dichloropropane			10.0	11.1		ug/L		111	80 - 120	2	14
Dibromomethane			10.0	11.9		ug/L		119	80 - 120	1	11
Dichlorobromomethane			10.0	11.6		ug/L		116	75 - 124	2	13
cis-1,3-Dichloropropene			10.0	10.4		ug/L		104	77 - 120	1	35
Toluene			10.0	11.2		ug/L		112	80 - 120	1	13
trans-1,3-Dichloropropene			10.0	10.5		ug/L		105	76 - 122	2	20
1,1,2-Trichloroethane			10.0	11.9		ug/L		119	80 - 121	2	14
Tetrachloroethene			10.0	11.8		ug/L		118	76 - 125	2	13
1,3-Dichloropropane			10.0	11.1		ug/L		111	79 - 120	1	19
Chlorodibromomethane			10.0	12.2		ug/L		122	73 - 125	1	13
Ethylene Dibromide			10.0	12.1		ug/L		121	79 - 126	1	12
Chlorobenzene			10.0	11.6		ug/L		116	80 - 120	2	10
1,1,1,2-Tetrachloroethane			10.0	11.3		ug/L		113	79 - 120	2	16
Ethylbenzene			10.0	10.5		ug/L		105	80 - 120	0	14
m-Xylene & p-Xylene			10.0	10.6		ug/L		106	80 - 120	1	14
o-Xylene			10.0	10.3		ug/L		103	80 - 120	2	16
Styrene			10.0	10.9		ug/L		109	76 - 122	2	16
Bromoform			10.0	14.6	*+	ug/L		146	56 - 139	0	21
Isopropylbenzene			10.0	10.5		ug/L		105	80 - 123	1	19
Bromobenzene			10.0	10.6		ug/L		106	80 - 120	2	24
1,1,2,2-Tetrachloroethane			10.0	9.97		ug/L		100	74 - 124	1	25
1,2,3-Trichloropropane			10.0	10.6		ug/L		106	76 - 124	3	26
N-Propylbenzene			10.0	9.91		ug/L		99	80 - 122	3	22
2-Chlorotoluene			10.0	10.4		ug/L		104	80 - 120	0	20
4-Chlorotoluene			10.0	10.3		ug/L		103	73 - 129	3	29
tert-Butylbenzene			10.0	10.1		ug/L		101	75 - 123	0	21
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	0	16

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

Lab Sample ID: LCSD 580-367095/5
Matrix: Water
Analysis Batch: 367095

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			10.0	9.77		ug/L		98	78 - 122	0	15
4-Isopropyltoluene			10.0	9.48		ug/L		95	77 - 126	1	20
1,3-Dichlorobenzene			10.0	11.7		ug/L		117	77 - 127	6	35
1,4-Dichlorobenzene			10.0	10.2		ug/L		102	80 - 120	0	17
n-Butylbenzene			10.0	10.0		ug/L		100	57 - 133	0	14
1,2-Dichlorobenzene			10.0	10.9		ug/L		109	80 - 120	1	15
1,2-Dibromo-3-Chloropropane			10.0	9.86		ug/L		99	65 - 133	3	25
1,2,4-Trichlorobenzene			10.0	10.5		ug/L		105	61 - 148	0	27
Hexachlorobutadiene			10.0	9.52		ug/L		95	74 - 131	1	22
Naphthalene			10.0	10.1		ug/L		101	63 - 150	4	33
1,2,3-Trichlorobenzene			10.0	9.75		ug/L		97	65 - 150	4	33
1,3,5-Trimethylbenzene			10.0	10.0		ug/L		100	80 - 122	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367095

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	*+ F1	10.0	24.6	F1	ug/L		246	20 - 150
Chloromethane	ND	*+ F1	10.0	14.9		ug/L		149	25 - 150
Vinyl chloride	ND	*+ F1	10.0	13.9		ug/L		139	31 - 150
Bromomethane	ND	*+	10.0	12.0		ug/L		120	36 - 150
Chloroethane	ND	*+	10.0	12.0		ug/L		120	38 - 150
Trichlorofluoromethane	ND		10.0	10.1		ug/L		101	45 - 148
1,1-Dichloroethene	ND		10.0	12.3		ug/L		123	70 - 129
Methylene Chloride	ND		10.0	10.7		ug/L		107	77 - 125
Methyl tert-butyl ether	ND		10.0	9.46		ug/L		95	72 - 120
trans-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	75 - 120
1,1-Dichloroethane	ND		10.0	10.4		ug/L		104	80 - 120
2,2-Dichloropropane	ND		10.0	9.87		ug/L		99	66 - 126
cis-1,2-Dichloroethene	0.57	J	10.0	11.3		ug/L		108	76 - 120
Chlorobromomethane	ND		10.0	10.7		ug/L		107	78 - 120
1,1,1-Trichloroethane	ND		10.0	11.6		ug/L		116	74 - 130
1,1-Dichloropropene	ND	F1	10.0	13.6	F1	ug/L		136	74 - 120
Benzene	ND		10.0	10.6		ug/L		106	80 - 122
1,2-Dichloroethane	ND		10.0	9.82		ug/L		98	69 - 126
1,2-Dichloropropane	ND		10.0	10.1		ug/L		101	80 - 120
Dibromomethane	ND		10.0	10.9		ug/L		109	80 - 120
Dichlorobromomethane	ND		10.0	10.8		ug/L		108	75 - 124
cis-1,3-Dichloropropene	ND		10.0	9.26		ug/L		93	77 - 120
Toluene	ND		10.0	10.6		ug/L		106	80 - 120
trans-1,3-Dichloropropene	ND		10.0	9.48		ug/L		95	76 - 122

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

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367095

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		10.0	11.0		ug/L		110	80 - 121
Tetrachloroethene	8.1	F1	10.0	20.8	F1	ug/L		127	76 - 125
1,3-Dichloropropane	ND		10.0	10.2		ug/L		102	79 - 120
Chlorodibromomethane	ND		10.0	11.5		ug/L		115	73 - 125
Ethylene Dibromide	ND		10.0	11.1		ug/L		111	79 - 126
Chlorobenzene	ND		10.0	11.1		ug/L		111	80 - 120
1,1,1,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	79 - 120
Ethylbenzene	ND		10.0	10.2		ug/L		102	80 - 120
m-Xylene & p-Xylene	ND		10.0	9.98		ug/L		100	80 - 120
o-Xylene	ND		10.0	9.78		ug/L		98	80 - 120
Styrene	ND		10.0	9.75		ug/L		97	76 - 122
Bromoform	ND	*+ F1	10.0	13.9		ug/L		139	56 - 139
Isopropylbenzene	ND		10.0	10.2		ug/L		102	80 - 123
Bromobenzene	ND		10.0	9.80		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	ND		10.0	8.93		ug/L		89	74 - 124
1,2,3-Trichloropropane	ND		10.0	9.54		ug/L		95	76 - 124
N-Propylbenzene	ND		10.0	9.45		ug/L		94	80 - 122
2-Chlorotoluene	ND		10.0	9.79		ug/L		98	80 - 120
4-Chlorotoluene	ND		10.0	9.43		ug/L		94	73 - 129
tert-Butylbenzene	ND		10.0	9.60		ug/L		96	75 - 123
1,2,4-Trimethylbenzene	ND		10.0	9.36		ug/L		94	80 - 120
sec-Butylbenzene	ND		10.0	9.45		ug/L		94	78 - 122
4-Isopropyltoluene	ND		10.0	9.02		ug/L		90	77 - 126
1,3-Dichlorobenzene	ND		10.0	11.4		ug/L		114	77 - 127
1,4-Dichlorobenzene	ND		10.0	9.33		ug/L		93	80 - 120
n-Butylbenzene	ND		10.0	9.32		ug/L		93	57 - 133
1,2-Dichlorobenzene	ND		10.0	9.75		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	ND		10.0	8.66		ug/L		87	65 - 133
1,2,4-Trichlorobenzene	ND		10.0	9.09		ug/L		91	61 - 148
Hexachlorobutadiene	ND		10.0	8.45		ug/L		85	74 - 131
Naphthalene	ND		10.0	7.89		ug/L		79	63 - 150
1,2,3-Trichlorobenzene	ND		10.0	7.65		ug/L		77	65 - 150
1,3,5-Trimethylbenzene	ND		10.0	9.31		ug/L		93	80 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367095

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND	*+ F1	10.0	27.2	F1	ug/L		272	20 - 150	10	33
Chloromethane	ND	*+ F1	10.0	15.2	F1	ug/L		152	25 - 150	2	26
Vinyl chloride	ND	*+ F1	10.0	15.5	F1	ug/L		155	31 - 150	10	26

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

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367095

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND	*+	10.0	13.6		ug/L		136	36 - 150	12	33
Chloroethane	ND	*+	10.0	13.1		ug/L		131	38 - 150	9	28
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	45 - 148	6	35
1,1-Dichloroethene	ND		10.0	12.7		ug/L		127	70 - 129	4	23
Methylene Chloride	ND		10.0	10.7		ug/L		107	77 - 125	0	18
Methyl tert-butyl ether	ND		10.0	9.68		ug/L		97	72 - 120	2	18
trans-1,2-Dichloroethene	ND		10.0	11.0		ug/L		110	75 - 120	1	21
1,1-Dichloroethane	ND		10.0	10.8		ug/L		108	80 - 120	3	15
2,2-Dichloropropane	ND		10.0	10.3		ug/L		103	66 - 126	4	22
cis-1,2-Dichloroethene	0.57	J	10.0	11.2		ug/L		106	76 - 120	1	20
Chlorobromomethane	ND		10.0	11.0		ug/L		110	78 - 120	3	13
1,1,1-Trichloroethane	ND		10.0	11.7		ug/L		117	74 - 130	1	19
1,1-Dichloropropene	ND	F1	10.0	13.9	F1	ug/L		139	74 - 120	2	14
Benzene	ND		10.0	11.0		ug/L		110	80 - 122	4	14
1,2-Dichloroethane	ND		10.0	9.98		ug/L		100	69 - 126	2	11
1,2-Dichloropropane	ND		10.0	10.3		ug/L		103	80 - 120	2	14
Dibromomethane	ND		10.0	11.2		ug/L		112	80 - 120	3	11
Dichlorobromomethane	ND		10.0	11.1		ug/L		111	75 - 124	2	13
cis-1,3-Dichloropropene	ND		10.0	10.0		ug/L		100	77 - 120	8	35
Toluene	ND		10.0	10.7		ug/L		107	80 - 120	1	13
trans-1,3-Dichloropropene	ND		10.0	9.74		ug/L		97	76 - 122	3	20
1,1,2-Trichloroethane	ND		10.0	11.4		ug/L		114	80 - 121	4	14
Tetrachloroethene	8.1	F1	10.0	21.7	F1	ug/L		136	76 - 125	4	13
1,3-Dichloropropane	ND		10.0	10.3		ug/L		103	79 - 120	1	19
Chlorodibromomethane	ND		10.0	11.9		ug/L		119	73 - 125	3	13
Ethylene Dibromide	ND		10.0	11.1		ug/L		111	79 - 126	1	12
Chlorobenzene	ND		10.0	11.2		ug/L		112	80 - 120	1	10
1,1,1,2-Tetrachloroethane	ND		10.0	10.9		ug/L		109	79 - 120	1	16
Ethylbenzene	ND		10.0	10.3		ug/L		103	80 - 120	0	14
m-Xylene & p-Xylene	ND		10.0	10.4		ug/L		104	80 - 120	4	14
o-Xylene	ND		10.0	10.0		ug/L		100	80 - 120	2	16
Styrene	ND		10.0	9.99		ug/L		100	76 - 122	3	16
Bromoform	ND	*+ F1	10.0	14.0	F1	ug/L		140	56 - 139	1	21
Isopropylbenzene	ND		10.0	10.5		ug/L		105	80 - 123	2	19
Bromobenzene	ND		10.0	10.3		ug/L		103	80 - 120	5	24
1,1,2,2-Tetrachloroethane	ND		10.0	9.81		ug/L		98	74 - 124	9	25
1,2,3-Trichloropropane	ND		10.0	10.4		ug/L		104	76 - 124	9	26
N-Propylbenzene	ND		10.0	10.1		ug/L		101	80 - 122	6	22
2-Chlorotoluene	ND		10.0	10.7		ug/L		107	80 - 120	9	20
4-Chlorotoluene	ND		10.0	10.3		ug/L		103	73 - 129	9	29
tert-Butylbenzene	ND		10.0	10.4		ug/L		104	75 - 123	8	21
1,2,4-Trimethylbenzene	ND		10.0	10.4		ug/L		104	80 - 120	10	16
sec-Butylbenzene	ND		10.0	10.3		ug/L		103	78 - 122	8	15
4-Isopropyltoluene	ND		10.0	9.79		ug/L		98	77 - 126	8	20
1,3-Dichlorobenzene	ND		10.0	11.7		ug/L		117	77 - 127	3	35
1,4-Dichlorobenzene	ND		10.0	10.2		ug/L		102	80 - 120	9	17
n-Butylbenzene	ND		10.0	10.4		ug/L		104	57 - 133	11	14
1,2-Dichlorobenzene	ND		10.0	11.3		ug/L		113	80 - 120	15	15
1,2-Dibromo-3-Chloropropane	ND		10.0	9.65		ug/L		97	65 - 133	11	25

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

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367095

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		10.0	9.88		ug/L		99	61 - 148	8	27
Hexachlorobutadiene	ND		10.0	10.3		ug/L		103	74 - 131	20	22
Naphthalene	ND		10.0	9.01		ug/L		90	63 - 150	13	33
1,2,3-Trichlorobenzene	ND		10.0	8.80		ug/L		88	65 - 150	14	33
1,3,5-Trimethylbenzene	ND		10.0	10.1		ug/L		101	80 - 122	9	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 580-367166/7
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			09/08/21 10:59	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/21 10:59	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/21 10:59	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/21 10:59	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/21 10:59	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/21 10:59	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/21 10:59	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/21 10:59	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/21 10:59	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/21 10:59	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/21 10:59	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/21 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/21 10:59	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 10:59	1
Chloroform	ND		1.0	0.26	ug/L			09/08/21 10:59	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/21 10:59	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 10:59	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/21 10:59	1
Benzene	ND		1.0	0.24	ug/L			09/08/21 10:59	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/21 10:59	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 10:59	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/21 10:59	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/21 10:59	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/21 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/08/21 10:59	1
Toluene	ND		1.0	0.39	ug/L			09/08/21 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/21 10:59	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/21 10:59	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/21 10:59	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/21 10:59	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/21 10:59	1

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

Lab Sample ID: MB 580-367166/7
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/21 10:59	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/21 10:59	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/21 10:59	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/21 10:59	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/21 10:59	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/21 10:59	1
Styrene	ND		1.0	0.53	ug/L			09/08/21 10:59	1
Bromoform	ND		1.0	0.51	ug/L			09/08/21 10:59	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/21 10:59	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/21 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/21 10:59	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/21 10:59	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/21 10:59	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/21 10:59	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/21 10:59	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/21 10:59	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/21 10:59	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/21 10:59	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/21 10:59	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/21 10:59	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 10:59	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/21 10:59	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/21 10:59	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/21 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/21 10:59	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/21 10:59	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/21 10:59	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/21 10:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/21 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*09/08/21 10:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*09/08/21 10:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/08/21 10:59*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/08/21 10:59*	*1*

Lab Sample ID: LCS 580-367166/4
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	30.2	*+	ug/L		302	20 - 150
Chloromethane	10.0	16.8	*+	ug/L		168	25 - 150
Vinyl chloride	10.0	14.9		ug/L		149	31 - 150
Bromomethane	10.0	13.4		ug/L		134	36 - 150
Chloroethane	10.0	12.0		ug/L		120	38 - 150
Trichlorofluoromethane	10.0	13.6		ug/L		136	45 - 148
1,1-Dichloroethene	10.0	11.8		ug/L		118	70 - 129

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

Lab Sample ID: LCS 580-367166/4
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	10.0	10.8		ug/L		108	77 - 125
Methyl tert-butyl ether	10.0	9.89		ug/L		99	72 - 120
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	75 - 120
1,1-Dichloroethane	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	11.2		ug/L		112	66 - 126
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	76 - 120
Chlorobromomethane	10.0	11.2		ug/L		112	78 - 120
Chloroform	10.0	11.3		ug/L		113	78 - 127
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	74 - 130
Carbon tetrachloride	10.0	12.3		ug/L		123	72 - 129
1,1-Dichloropropene	10.0	11.3		ug/L		113	74 - 120
Benzene	10.0	11.5		ug/L		115	80 - 122
1,2-Dichloroethane	10.0	10.1		ug/L		101	69 - 126
Trichloroethene	10.0	12.2		ug/L		122	80 - 125
1,2-Dichloropropane	10.0	11.1		ug/L		111	80 - 120
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorobromomethane	10.0	11.3		ug/L		113	75 - 124
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	77 - 120
Toluene	10.0	11.1		ug/L		111	80 - 120
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	76 - 122
1,1,2-Trichloroethane	10.0	11.4		ug/L		114	80 - 121
Tetrachloroethene	10.0	11.4		ug/L		114	76 - 125
1,3-Dichloropropane	10.0	10.8		ug/L		108	79 - 120
Chlorodibromomethane	10.0	11.8		ug/L		118	73 - 125
Ethylene Dibromide	10.0	11.7		ug/L		117	79 - 126
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.8		ug/L		108	79 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
m-Xylene & p-Xylene	10.0	10.0		ug/L		100	80 - 120
o-Xylene	10.0	9.74		ug/L		97	80 - 120
Styrene	10.0	10.1		ug/L		101	76 - 122
Bromoform	10.0	14.0	*+	ug/L		140	56 - 139
Isopropylbenzene	10.0	9.82		ug/L		98	80 - 123
Bromobenzene	10.0	9.63		ug/L		96	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.15		ug/L		92	74 - 124
1,2,3-Trichloropropane	10.0	9.81		ug/L		98	76 - 124
N-Propylbenzene	10.0	9.02		ug/L		90	80 - 122
2-Chlorotoluene	10.0	9.58		ug/L		96	80 - 120
4-Chlorotoluene	10.0	9.55		ug/L		95	73 - 129
tert-Butylbenzene	10.0	9.31		ug/L		93	75 - 123
1,2,4-Trimethylbenzene	10.0	9.60		ug/L		96	80 - 120
sec-Butylbenzene	10.0	9.32		ug/L		93	78 - 122
4-Isopropyltoluene	10.0	9.08		ug/L		91	77 - 126
1,3-Dichlorobenzene	10.0	11.4		ug/L		114	77 - 127
1,4-Dichlorobenzene	10.0	9.88		ug/L		99	80 - 120
n-Butylbenzene	10.0	9.78		ug/L		98	57 - 133
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.32		ug/L		93	65 - 133
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	61 - 148

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

Lab Sample ID: LCS 580-367166/4
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	10.0	9.89		ug/L		99	74 - 131
Naphthalene	10.0	9.04		ug/L		90	63 - 150
1,2,3-Trichlorobenzene	10.0	8.92		ug/L		89	65 - 150
1,3,5-Trimethylbenzene	10.0	9.34		ug/L		93	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 580-367166/5
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	29.0	*+	ug/L		290	20 - 150	4	33
Chloromethane	10.0	16.0	*+	ug/L		160	25 - 150	5	26
Vinyl chloride	10.0	14.2		ug/L		142	31 - 150	5	26
Bromomethane	10.0	12.8		ug/L		128	36 - 150	5	33
Chloroethane	10.0	11.6		ug/L		116	38 - 150	4	28
Trichlorofluoromethane	10.0	12.9		ug/L		129	45 - 148	6	35
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 129	7	23
Methylene Chloride	10.0	9.58		ug/L		96	77 - 125	12	18
Methyl tert-butyl ether	10.0	9.20		ug/L		92	72 - 120	7	18
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	75 - 120	10	21
1,1-Dichloroethane	10.0	9.41		ug/L		94	80 - 120	14	15
2,2-Dichloropropane	10.0	10.8		ug/L		108	66 - 126	3	22
cis-1,2-Dichloroethene	10.0	9.67		ug/L		97	76 - 120	11	20
Chlorobromomethane	10.0	10.0		ug/L		100	78 - 120	11	13
Chloroform	10.0	9.76	*1	ug/L		98	78 - 127	15	14
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	74 - 130	8	19
Carbon tetrachloride	10.0	11.5		ug/L		115	72 - 129	7	19
1,1-Dichloropropene	10.0	10.1		ug/L		101	74 - 120	11	14
Benzene	10.0	9.81	*1	ug/L		98	80 - 122	16	14
1,2-Dichloroethane	10.0	9.26		ug/L		93	69 - 126	8	11
Trichloroethene	10.0	10.7		ug/L		107	80 - 125	13	13
1,2-Dichloropropane	10.0	9.59		ug/L		96	80 - 120	14	14
Dibromomethane	10.0	10.2		ug/L		102	80 - 120	6	11
Dichlorobromomethane	10.0	9.90		ug/L		99	75 - 124	13	13
cis-1,3-Dichloropropene	10.0	9.33		ug/L		93	77 - 120	11	35
Toluene	10.0	9.60	*1	ug/L		96	80 - 120	15	13
trans-1,3-Dichloropropene	10.0	9.18		ug/L		92	76 - 122	13	20
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121	7	14
Tetrachloroethene	10.0	10.3		ug/L		103	76 - 125	10	13
1,3-Dichloropropane	10.0	9.78		ug/L		98	79 - 120	10	19
Chlorodibromomethane	10.0	11.0		ug/L		110	73 - 125	7	13
Ethylene Dibromide	10.0	10.8		ug/L		108	79 - 126	8	12

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

Lab Sample ID: LCSD 580-367166/5
Matrix: Water
Analysis Batch: 367166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			10.0	9.90		ug/L		99	80 - 120	10	10
1,1,1,2-Tetrachloroethane			10.0	9.96		ug/L		100	79 - 120	8	16
Ethylbenzene			10.0	9.09		ug/L		91	80 - 120	11	14
m-Xylene & p-Xylene			10.0	9.08		ug/L		91	80 - 120	10	14
o-Xylene			10.0	9.10		ug/L		91	80 - 120	7	16
Styrene			10.0	9.29		ug/L		93	76 - 122	8	16
Bromoform			10.0	13.2		ug/L		132	56 - 139	5	21
Isopropylbenzene			10.0	9.09		ug/L		91	80 - 123	8	19
Bromobenzene			10.0	9.29		ug/L		93	80 - 120	4	24
1,1,2,2-Tetrachloroethane			10.0	8.80		ug/L		88	74 - 124	4	25
1,2,3-Trichloropropane			10.0	9.42		ug/L		94	76 - 124	4	26
N-Propylbenzene			10.0	8.65		ug/L		86	80 - 122	4	22
2-Chlorotoluene			10.0	9.24		ug/L		92	80 - 120	4	20
4-Chlorotoluene			10.0	9.12		ug/L		91	73 - 129	5	29
tert-Butylbenzene			10.0	8.76		ug/L		88	75 - 123	6	21
1,2,4-Trimethylbenzene			10.0	8.88		ug/L		89	80 - 120	8	16
sec-Butylbenzene			10.0	8.66		ug/L		87	78 - 122	7	15
4-Isopropyltoluene			10.0	8.47		ug/L		85	77 - 126	7	20
1,3-Dichlorobenzene			10.0	10.7		ug/L		107	77 - 127	6	35
1,4-Dichlorobenzene			10.0	9.17		ug/L		92	80 - 120	7	17
n-Butylbenzene			10.0	8.91		ug/L		89	57 - 133	9	14
1,2-Dichlorobenzene			10.0	9.45		ug/L		94	80 - 120	10	15
1,2-Dibromo-3-Chloropropane			10.0	9.08		ug/L		91	65 - 133	3	25
1,2,4-Trichlorobenzene			10.0	8.81		ug/L		88	61 - 148	16	27
Hexachlorobutadiene			10.0	8.47		ug/L		85	74 - 131	15	22
Naphthalene			10.0	8.36		ug/L		84	63 - 150	8	33
1,2,3-Trichlorobenzene			10.0	8.24		ug/L		82	65 - 150	8	33
1,3,5-Trimethylbenzene			10.0	8.78		ug/L		88	80 - 122	6	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 580-367251/7
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.26	ug/L			09/08/21 22:06	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/21 22:06	1
Trichloroethene	ND		1.0	0.26	ug/L			09/08/21 22:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*09/08/21 22:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/08/21 22:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/08/21 22:06*	*1*

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

Lab Sample ID: MB 580-367251/7
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/08/21 22:06*	*1*

Lab Sample ID: LCS 580-367251/4
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloroform			10.0	10.6		ug/L		106	78 - 127		
Carbon tetrachloride			10.0	12.5		ug/L		125	72 - 129		
Trichloroethene			10.0	12.0		ug/L		120	80 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 580-367251/5
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			10.0	9.38		ug/L		94	78 - 127	13	14
Carbon tetrachloride			10.0	10.7		ug/L		107	72 - 129	15	19
Trichloroethene			10.0	10.0	*1	ug/L		100	80 - 125	18	13

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 580-367311/7
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.53	ug/L			09/09/21 11:37	1
Chloromethane	ND		1.0	0.28	ug/L			09/09/21 11:37	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/09/21 11:37	1
Bromomethane	ND		1.0	0.21	ug/L			09/09/21 11:37	1
Chloroethane	ND		1.0	0.35	ug/L			09/09/21 11:37	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/09/21 11:37	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/09/21 11:37	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/09/21 11:37	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/09/21 11:37	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/09/21 11:37	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/09/21 11:37	1

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

Lab Sample ID: MB 580-367311/7
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/09/21 11:37	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/09/21 11:37	1
Chloroform	ND		1.0	0.26	ug/L			09/09/21 11:37	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/09/21 11:37	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/09/21 11:37	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/09/21 11:37	1
Benzene	ND		1.0	0.24	ug/L			09/09/21 11:37	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/09/21 11:37	1
Trichloroethene	ND		1.0	0.26	ug/L			09/09/21 11:37	1
Dibromomethane	ND		1.0	0.34	ug/L			09/09/21 11:37	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/09/21 11:37	1
Toluene	ND		1.0	0.39	ug/L			09/09/21 11:37	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/09/21 11:37	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/09/21 11:37	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/09/21 11:37	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/09/21 11:37	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/09/21 11:37	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/09/21 11:37	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/09/21 11:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/09/21 11:37	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/09/21 11:37	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/09/21 11:37	1
o-Xylene	ND		1.0	0.39	ug/L			09/09/21 11:37	1
Styrene	ND		1.0	0.53	ug/L			09/09/21 11:37	1
Bromoform	ND		1.0	0.51	ug/L			09/09/21 11:37	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/09/21 11:37	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/09/21 11:37	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/09/21 11:37	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/09/21 11:37	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/09/21 11:37	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/09/21 11:37	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/09/21 11:37	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/09/21 11:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/09/21 11:37	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/09/21 11:37	1
Naphthalene	ND		3.0	0.93	ug/L			09/09/21 11:37	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/09/21 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*09/09/21 11:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*09/09/21 11:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/09/21 11:37*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/09/21 11:37*	*1*

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

Lab Sample ID: LCS 580-367311/4
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	27.3	*+	ug/L		273	20 - 150
Chloromethane	10.0	15.3	*+	ug/L		153	25 - 150
Vinyl chloride	10.0	14.5		ug/L		145	31 - 150
Bromomethane	10.0	12.8		ug/L		128	36 - 150
Chloroethane	10.0	11.8		ug/L		118	38 - 150
Trichlorofluoromethane	10.0	14.2		ug/L		142	45 - 148
1,1-Dichloroethene	10.0	11.7		ug/L		117	70 - 129
Methylene Chloride	10.0	10.8		ug/L		108	77 - 125
Methyl tert-butyl ether	10.0	9.79		ug/L		98	72 - 120
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	75 - 120
2,2-Dichloropropane	10.0	12.2		ug/L		122	66 - 126
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	76 - 120
Chlorobromomethane	10.0	11.5		ug/L		115	78 - 120
Chloroform	10.0	11.4		ug/L		114	78 - 127
1,1,1-Trichloroethane	10.0	11.3		ug/L		113	74 - 130
Carbon tetrachloride	10.0	13.4	*+	ug/L		134	72 - 129
1,1-Dichloropropene	10.0	11.3		ug/L		113	74 - 120
Benzene	10.0	11.3		ug/L		113	80 - 122
1,2-Dichloroethane	10.0	10.3		ug/L		103	69 - 126
Trichloroethene	10.0	12.5		ug/L		125	80 - 125
Dibromomethane	10.0	11.6		ug/L		116	80 - 120
Dichlorobromomethane	10.0	11.4		ug/L		114	75 - 124
Toluene	10.0	11.1		ug/L		111	80 - 120
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	76 - 122
1,1,2-Trichloroethane	10.0	12.0		ug/L		120	80 - 121
Tetrachloroethene	10.0	12.3		ug/L		123	76 - 125
1,3-Dichloropropane	10.0	10.9		ug/L		109	79 - 120
Chlorodibromomethane	10.0	13.2	*+	ug/L		132	73 - 125
Ethylene Dibromide	10.0	12.3		ug/L		123	79 - 126
Chlorobenzene	10.0	12.0		ug/L		120	80 - 120
1,1,1,2-Tetrachloroethane	10.0	12.1	*+	ug/L		121	79 - 120
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
m-Xylene & p-Xylene	10.0	10.8		ug/L		108	80 - 120
o-Xylene	10.0	10.8		ug/L		108	80 - 120
Styrene	10.0	11.3		ug/L		113	76 - 122
Bromoform	10.0	15.7	*+	ug/L		157	56 - 139
Isopropylbenzene	10.0	11.2		ug/L		112	80 - 123
1,2,3-Trichloropropane	10.0	9.54		ug/L		95	76 - 124
4-Chlorotoluene	10.0	9.41		ug/L		94	73 - 129
1,3-Dichlorobenzene	10.0	13.7	*+	ug/L		137	77 - 127
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
n-Butylbenzene	10.0	10.1		ug/L		101	57 - 133
1,2-Dichlorobenzene	10.0	11.4		ug/L		114	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	65 - 133
1,2,4-Trichlorobenzene	10.0	17.8	*+	ug/L		178	61 - 148
Hexachlorobutadiene	10.0	13.5	*+	ug/L		135	74 - 131
Naphthalene	10.0	13.0		ug/L		130	63 - 150
1,2,3-Trichlorobenzene	10.0	13.2		ug/L		132	65 - 150

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

Lab Sample ID: LCS 580-367311/4
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 580-367311/5
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			10.0	22.6	*+	ug/L		226	20 - 150	19	33
Chloromethane			10.0	12.7		ug/L		127	25 - 150	19	26
Vinyl chloride			10.0	11.8		ug/L		118	31 - 150	20	26
Bromomethane			10.0	10.3		ug/L		103	36 - 150	22	33
Chloroethane			10.0	9.69		ug/L		97	38 - 150	19	28
Trichlorofluoromethane			10.0	11.7		ug/L		117	45 - 148	20	35
1,1-Dichloroethene			10.0	8.94	*1	ug/L		89	70 - 129	27	23
Methylene Chloride			10.0	7.98	*1	ug/L		80	77 - 125	30	18
Methyl tert-butyl ether			10.0	7.59	*1	ug/L		76	72 - 120	25	18
trans-1,2-Dichloroethene			10.0	8.43	*1	ug/L		84	75 - 120	29	21
2,2-Dichloropropane			10.0	9.05	*1	ug/L		91	66 - 126	30	22
cis-1,2-Dichloroethene			10.0	8.29	*1	ug/L		83	76 - 120	29	20
Chlorobromomethane			10.0	8.57	*1	ug/L		86	78 - 120	29	13
Chloroform			10.0	8.55	*1	ug/L		85	78 - 127	29	14
1,1,1-Trichloroethane			10.0	8.73	*1	ug/L		87	74 - 130	25	19
Carbon tetrachloride			10.0	10.0	*1	ug/L		100	72 - 129	28	19
1,1-Dichloropropene			10.0	8.59	*1	ug/L		86	74 - 120	27	14
Benzene			10.0	8.48	*1	ug/L		85	80 - 122	28	14
1,2-Dichloroethane			10.0	7.89	*1	ug/L		79	69 - 126	27	11
Trichloroethene			10.0	9.43	*1	ug/L		94	80 - 125	28	13
Dibromomethane			10.0	9.05	*1	ug/L		91	80 - 120	24	11
Dichlorobromomethane			10.0	8.76	*1	ug/L		88	75 - 124	26	13
Toluene			10.0	8.50	*1	ug/L		85	80 - 120	26	13
trans-1,3-Dichloropropene			10.0	7.90	*1	ug/L		79	76 - 122	28	20
1,1,2-Trichloroethane			10.0	9.06	*1	ug/L		91	80 - 121	28	14
Tetrachloroethene			10.0	9.29	*1	ug/L		93	76 - 125	28	13
1,3-Dichloropropane			10.0	8.26	*1	ug/L		83	79 - 120	28	19
Chlorodibromomethane			10.0	9.87	*1	ug/L		99	73 - 125	29	13
Ethylene Dibromide			10.0	9.30	*1	ug/L		93	79 - 126	28	12
Chlorobenzene			10.0	8.97	*1	ug/L		90	80 - 120	29	10
1,1,1,2-Tetrachloroethane			10.0	8.99	*1	ug/L		90	79 - 120	29	16
Ethylbenzene			10.0	8.01	*1	ug/L		80	80 - 120	29	14
m-Xylene & p-Xylene			10.0	8.12	*1	ug/L		81	80 - 120	29	14
o-Xylene			10.0	8.01	*1	ug/L		80	80 - 120	29	16
Styrene			10.0	8.35	*1	ug/L		83	76 - 122	30	16
Bromoform			10.0	12.3	*1	ug/L		123	56 - 139	24	21
Isopropylbenzene			10.0	8.24	*1	ug/L		82	80 - 123	30	19
1,2,3-Trichloropropane			10.0	7.83		ug/L		78	76 - 124	20	26

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

Lab Sample ID: LCSD 580-367311/5
Matrix: Water
Analysis Batch: 367311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorotoluene			10.0	7.33		ug/L		73	73 - 129	25	29
1,3-Dichlorobenzene			10.0	10.1		ug/L		101	77 - 127	31	35
1,4-Dichlorobenzene			10.0	8.06	*1	ug/L		81	80 - 120	24	17
n-Butylbenzene			10.0	7.58	*1	ug/L		76	57 - 133	28	14
1,2-Dichlorobenzene			10.0	8.86	*1	ug/L		89	80 - 120	25	15
1,2-Dibromo-3-Chloropropane			10.0	8.46		ug/L		85	65 - 133	22	25
1,2,4-Trichlorobenzene			10.0	11.3	*1	ug/L		113	61 - 148	45	27
Hexachlorobutadiene			10.0	9.02	*1	ug/L		90	74 - 131	40	22
Naphthalene			10.0	8.73	*1	ug/L		87	63 - 150	40	33
1,2,3-Trichlorobenzene			10.0	8.79	*1	ug/L		88	65 - 150	40	33

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: 180-126312-27 MS
Matrix: Water
Analysis Batch: 367311

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	*+	10.0	10.9		ug/L		109	20 - 150
Chloromethane	ND	*+	10.0	6.21		ug/L		62	25 - 150
Vinyl chloride	ND		10.0	5.60		ug/L		56	31 - 150
Bromomethane	ND		10.0	5.41		ug/L		54	36 - 150
Chloroethane	ND		10.0	5.01		ug/L		50	38 - 150
Trichlorofluoromethane	ND		10.0	6.27		ug/L		63	45 - 148
1,1-Dichloroethene	ND	F1 *1	10.0	6.17	F1	ug/L		62	70 - 129
Methylene Chloride	ND	F2 F1 *1	10.0	5.28	F1	ug/L		53	77 - 125
Methyl tert-butyl ether	ND	F1 *1	10.0	4.40	F1	ug/L		44	72 - 120
trans-1,2-Dichloroethene	ND	F1 *1	10.0	5.53	F1	ug/L		55	75 - 120
2,2-Dichloropropane	ND	F1 *1	10.0	6.02	F1	ug/L		60	66 - 126
cis-1,2-Dichloroethene	ND	F2 F1 *1	10.0	5.21	F1	ug/L		52	76 - 120
Chlorobromomethane	ND	F2 F1 *1	10.0	5.26	F1	ug/L		53	78 - 120
Chloroform	ND	F2 F1 *1	10.0	5.47	F1	ug/L		55	78 - 127
1,1,1-Trichloroethane	ND	F1 *1	10.0	5.91	F1	ug/L		59	74 - 130
Carbon tetrachloride	ND	F1 *+ *1	10.0	6.84	F1	ug/L		68	72 - 129
1,1-Dichloropropene	ND	F2 F1 *1	10.0	5.75	F1	ug/L		58	74 - 120
Benzene	ND	F1 *1	10.0	5.60	F1	ug/L		56	80 - 122
1,2-Dichloroethane	ND	F2 F1 *1	10.0	4.90	F1	ug/L		49	69 - 126
Trichloroethene	ND	F2 F1 *1	10.0	6.13	F1	ug/L		61	80 - 125
Dibromomethane	ND	F2 F1 *1	10.0	5.55	F1	ug/L		55	80 - 120
Dichlorobromomethane	ND	F2 F1 *1	10.0	5.37	F1	ug/L		54	75 - 124
Toluene	ND	F2 F1 *1	10.0	5.37	F1	ug/L		54	80 - 120
trans-1,3-Dichloropropene	ND	F1 *1	10.0	4.68	F1	ug/L		47	76 - 122
1,1,2-Trichloroethane	ND	F2 F1 *1	10.0	5.18	F1	ug/L		52	80 - 121
Tetrachloroethene	ND	F2 F1 *1	10.0	6.26	F1	ug/L		63	76 - 125

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

Lab Sample ID: 180-126312-27 MS
Matrix: Water
Analysis Batch: 367311

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	ND	F1 *1	10.0	4.64	F1	ug/L		46	79 - 120
Chlorodibromomethane	ND	F2 F1 *+ *1	10.0	5.70	F1	ug/L		57	73 - 125
Ethylene Dibromide	ND	F2 F1 *1	10.0	5.30	F1	ug/L		53	79 - 126
Chlorobenzene	ND	F2 F1 *1	10.0	5.39	F1	ug/L		54	80 - 120
1,1,1,2-Tetrachloroethane	ND	F1 *+ *1	10.0	5.57	F1	ug/L		56	79 - 120
Ethylbenzene	ND	F2 F1 *1	10.0	5.08	F1	ug/L		51	80 - 120
m-Xylene & p-Xylene	ND	F2 F1 *1	10.0	5.06	F1	ug/L		51	80 - 120
o-Xylene	ND	F2 F1 *1	10.0	4.89	F1	ug/L		49	80 - 120
Styrene	ND	F2 F1 *1	10.0	4.95	F1	ug/L		49	76 - 122
Bromoform	ND	*+ *1	10.0	6.78		ug/L		68	56 - 139
Isopropylbenzene	ND	F1 *1	10.0	5.13	F1	ug/L		51	80 - 123
1,2,3-Trichloropropane	ND	F1	10.0	4.12	F1	ug/L		41	76 - 124
4-Chlorotoluene	ND	F1	10.0	4.22	F1	ug/L		42	73 - 129
1,3-Dichlorobenzene	ND	F1 *+	10.0	5.92	F1	ug/L		59	77 - 127
1,4-Dichlorobenzene	ND	F2 F1 *1	10.0	4.43	F1	ug/L		44	80 - 120
n-Butylbenzene	ND	F2 F1 *1	10.0	4.42	F1	ug/L		44	57 - 133
1,2-Dichlorobenzene	ND	F2 F1 *1	10.0	4.71	F1	ug/L		47	80 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	10.0	3.94	F1	ug/L		39	65 - 133
1,2,4-Trichlorobenzene	ND	F1 *+ *1	10.0	5.48	F1	ug/L		55	61 - 148
Hexachlorobutadiene	ND	F1 *+ *1	10.0	4.73	F1	ug/L		47	74 - 131
Naphthalene	ND	F1 *1	10.0	3.51	F1	ug/L		35	63 - 150
1,2,3-Trichlorobenzene	ND	F1 *1	10.0	3.89	F1	ug/L		39	65 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*

Lab Sample ID: 180-126312-27 MSD
Matrix: Water
Analysis Batch: 367311

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND	*+	10.0	11.8		ug/L		118	20 - 150	7	33
Chloromethane	ND	*+	10.0	7.05		ug/L		71	25 - 150	13	26
Vinyl chloride	ND		10.0	6.71		ug/L		67	31 - 150	18	26
Bromomethane	ND		10.0	6.17		ug/L		62	36 - 150	13	33
Chloroethane	ND		10.0	5.55		ug/L		56	38 - 150	10	28
Trichlorofluoromethane	ND		10.0	6.85		ug/L		68	45 - 148	9	35
1,1-Dichloroethene	ND	F1 *1	10.0	7.55		ug/L		75	70 - 129	20	23
Methylene Chloride	ND	F2 F1 *1	10.0	6.45	F2 F1	ug/L		64	77 - 125	20	18
Methyl tert-butyl ether	ND	F1 *1	10.0	5.04	F1	ug/L		50	72 - 120	14	18
trans-1,2-Dichloroethene	ND	F1 *1	10.0	6.83	F1	ug/L		68	75 - 120	21	21
2,2-Dichloropropane	ND	F1 *1	10.0	7.02		ug/L		70	66 - 126	15	22
cis-1,2-Dichloroethene	ND	F2 F1 *1	10.0	6.60	F2 F1	ug/L		66	76 - 120	24	20
Chlorobromomethane	ND	F2 F1 *1	10.0	6.29	F2 F1	ug/L		63	78 - 120	18	13
Chloroform	ND	F2 F1 *1	10.0	6.62	F2 F1	ug/L		66	78 - 127	19	14

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

Lab Sample ID: 180-126312-27 MSD
Matrix: Water
Analysis Batch: 367311

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1 *1	10.0	6.97	F1	ug/L		70	74 - 130	17	19
Carbon tetrachloride	ND	F1 *+ *1	10.0	8.11		ug/L		81	72 - 129	17	19
1,1-Dichloropropene	ND	F2 F1 *1	10.0	6.86	F2 F1	ug/L		69	74 - 120	18	14
Benzene	ND	F1 *1	10.0	6.46	F1	ug/L		65	80 - 122	14	14
1,2-Dichloroethane	ND	F2 F1 *1	10.0	5.80	F2 F1	ug/L		58	69 - 126	17	11
Trichloroethene	ND	F2 F1 *1	10.0	7.41	F2 F1	ug/L		74	80 - 125	19	13
Dibromomethane	ND	F2 F1 *1	10.0	6.41	F2 F1	ug/L		64	80 - 120	14	11
Dichlorobromomethane	ND	F2 F1 *1	10.0	6.50	F2 F1	ug/L		65	75 - 124	19	13
Toluene	ND	F2 F1 *1	10.0	6.47	F2 F1	ug/L		65	80 - 120	19	13
trans-1,3-Dichloropropene	ND	F1 *1	10.0	5.40	F1	ug/L		54	76 - 122	14	20
1,1,2-Trichloroethane	ND	F2 F1 *1	10.0	6.24	F2 F1	ug/L		62	80 - 121	18	14
Tetrachloroethene	ND	F2 F1 *1	10.0	7.47	F2 F1	ug/L		75	76 - 125	18	13
1,3-Dichloropropane	ND	F1 *1	10.0	5.53	F1	ug/L		55	79 - 120	17	19
Chlorodibromomethane	ND	F2 F1 *+ *1	10.0	6.74	F2 F1	ug/L		67	73 - 125	17	13
Ethylene Dibromide	ND	F2 F1 *1	10.0	6.07	F2 F1	ug/L		61	79 - 126	14	12
Chlorobenzene	ND	F2 F1 *1	10.0	6.57	F2 F1	ug/L		66	80 - 120	20	10
1,1,1,2-Tetrachloroethane	ND	F1 *+ *1	10.0	6.46	F1	ug/L		65	79 - 120	15	16
Ethylbenzene	ND	F2 F1 *1	10.0	6.11	F2 F1	ug/L		61	80 - 120	18	14
m-Xylene & p-Xylene	ND	F2 F1 *1	10.0	5.90	F2 F1	ug/L		59	80 - 120	15	14
o-Xylene	ND	F2 F1 *1	10.0	5.80	F2 F1	ug/L		58	80 - 120	17	16
Styrene	ND	F2 F1 *1	10.0	5.92	F2 F1	ug/L		59	76 - 122	18	16
Bromoform	ND	*+ *1	10.0	7.38		ug/L		74	56 - 139	8	21
Isopropylbenzene	ND	F1 *1	10.0	5.99	F1	ug/L		60	80 - 123	15	19
1,2,3-Trichloropropane	ND	F1	10.0	4.77	F1	ug/L		48	76 - 124	15	26
4-Chlorotoluene	ND	F1	10.0	5.44	F1	ug/L		54	73 - 129	25	29
1,3-Dichlorobenzene	ND	F1 *+	10.0	6.70	F1	ug/L		67	77 - 127	12	35
1,4-Dichlorobenzene	ND	F2 F1 *1	10.0	5.84	F2 F1	ug/L		58	80 - 120	28	17
n-Butylbenzene	ND	F2 F1 *1	10.0	5.45	F2 F1	ug/L		55	57 - 133	21	14
1,2-Dichlorobenzene	ND	F2 F1 *1	10.0	5.73	F2 F1	ug/L		57	80 - 120	20	15
1,2-Dibromo-3-Chloropropane	ND	F1	10.0	4.46	F1	ug/L		45	65 - 133	13	25
1,2,4-Trichlorobenzene	ND	F1 *+ *1	10.0	5.52	F1	ug/L		55	61 - 148	1	27
Hexachlorobutadiene	ND	F1 *+ *1	10.0	5.41	F1	ug/L		54	74 - 131	14	22
Naphthalene	ND	F1 *1	10.0	3.94	F1	ug/L		39	63 - 150	11	33
1,2,3-Trichlorobenzene	ND	F1 *1	10.0	4.17	F1	ug/L		42	65 - 150	7	33

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 580-367451/7
Matrix: Water
Analysis Batch: 367451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/10/21 11:09	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/10/21 11:09	1

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

Lab Sample ID: MB 580-367451/7
Matrix: Water
Analysis Batch: 367451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/10/21 11:09	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			09/10/21 11:09	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/10/21 11:09	1
Bromobenzene	ND		1.0	0.43	ug/L			09/10/21 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/10/21 11:09	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/10/21 11:09	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/10/21 11:09	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/10/21 11:09	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/10/21 11:09	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/10/21 11:09	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/10/21 11:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/10/21 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/10/21 11:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*09/10/21 11:09*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/10/21 11:09*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/10/21 11:09*	*1*

Lab Sample ID: LCS 580-367451/4
Matrix: Water
Analysis Batch: 367451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	10.0	9.30		ug/L		93	80 - 120
Carbon tetrachloride	10.0	12.1		ug/L		121	72 - 129
1,2-Dichloropropane	10.0	9.52		ug/L		95	80 - 120
cis-1,3-Dichloropropene	10.0	8.95		ug/L		89	77 - 120
Tetrachloroethene	10.0	11.8		ug/L		118	76 - 125
Bromobenzene	10.0	9.88		ug/L		99	80 - 120
1,1,2,2-Tetrachloroethane	10.0	8.27		ug/L		83	74 - 124
N-Propylbenzene	10.0	9.28		ug/L		93	80 - 122
2-Chlorotoluene	10.0	10.1		ug/L		101	80 - 120
tert-Butylbenzene	10.0	9.41		ug/L		94	75 - 123
1,2,4-Trimethylbenzene	10.0	9.37		ug/L		94	80 - 120
sec-Butylbenzene	10.0	9.21		ug/L		92	78 - 122
4-Isopropyltoluene	10.0	9.03		ug/L		90	77 - 126
1,3,5-Trimethylbenzene	10.0	9.33		ug/L		93	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

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

Lab Sample ID: LCSD 580-367451/5
Matrix: Water
Analysis Batch: 367451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane			10.0	8.93		ug/L		89	80 - 120	4	15
Carbon tetrachloride			10.0	11.6		ug/L		116	72 - 129	4	19
1,2-Dichloropropane			10.0	9.17		ug/L		92	80 - 120	4	14
cis-1,3-Dichloropropene			10.0	8.74		ug/L		87	77 - 120	2	35
Tetrachloroethene			10.0	11.2		ug/L		112	76 - 125	5	13
Bromobenzene			10.0	9.72		ug/L		97	80 - 120	2	24
1,1,2,2-Tetrachloroethane			10.0	8.35		ug/L		83	74 - 124	1	25
N-Propylbenzene			10.0	8.96		ug/L		90	80 - 122	4	22
2-Chlorotoluene			10.0	9.32		ug/L		93	80 - 120	8	20
tert-Butylbenzene			10.0	8.93		ug/L		89	75 - 123	5	21
1,2,4-Trimethylbenzene			10.0	9.05		ug/L		91	80 - 120	3	16
sec-Butylbenzene			10.0	8.80		ug/L		88	78 - 122	5	15
4-Isopropyltoluene			10.0	8.44		ug/L		84	77 - 126	7	20
1,3,5-Trimethylbenzene			10.0	8.75		ug/L		87	80 - 122	7	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367251

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform - DL	160	H	500	686	H	ug/L		104	78 - 127
Carbon tetrachloride - DL	1700	H F1	500	2010	H F1	ug/L		69	72 - 129
Trichloroethene - DL	190	H *1	500	759	H	ug/L		114	80 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr) - DL	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr) - DL	*92*		*80 - 120*
4-Bromofluorobenzene (Surr) - DL	*106*		*80 - 120*
Dibromofluoromethane (Surr) - DL	*107*		*80 - 120*

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367251

Client Sample ID: MW20-082421
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform - DL	160	H	500	683	H	ug/L		104	78 - 127	0	14
Carbon tetrachloride - DL	1700	H F1	500	2140	H	ug/L		95	72 - 129	6	19
Trichloroethene - DL	190	H *1	500	768	H	ug/L		116	80 - 125	1	13

Method: 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr) - DL	107		80 - 120
1,2-Dichloroethane-d4 (Surr) - DL	92		80 - 120
4-Bromofluorobenzene (Surr) - DL	107		80 - 120
Dibromofluoromethane (Surr) - DL	110		80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: 180-126312-27 MS
Matrix: Water
Analysis Batch: 367451

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane - RA	ND	H F1	10.0	3.46	H F1	ug/L		35	80 - 120
1,2-Dichloropropane - RA	ND	H F1	10.0	3.45	H F1	ug/L		35	80 - 120
cis-1,3-Dichloropropene - RA	ND	H F1	10.0	2.79	H F1	ug/L		28	77 - 120
Bromobenzene - RA	ND	H F1	10.0	3.09	H F1	ug/L		31	80 - 120
1,1,2,2-Tetrachloroethane - RA	ND	H F1	10.0	2.30	H F1	ug/L		23	74 - 124
N-Propylbenzene - RA	ND	H F1	10.0	3.19	H F1	ug/L		32	80 - 122
2-Chlorotoluene - RA	ND	H F1	10.0	3.00	H F1	ug/L		30	80 - 120
tert-Butylbenzene - RA	ND	H F1	10.0	3.01	H F1	ug/L		30	75 - 123
1,2,4-Trimethylbenzene - RA	ND	H F1	10.0	3.05	H F1	ug/L		30	80 - 120
sec-Butylbenzene - RA	ND	H F1	10.0	3.13	H F1	ug/L		31	78 - 122
4-Isopropyltoluene - RA	ND	H F1	10.0	2.93	H F1	ug/L		29	77 - 126
1,3,5-Trimethylbenzene - RA	ND	H F1	10.0	2.93	H F1	ug/L		29	80 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr) - RA	108		80 - 120
1,2-Dichloroethane-d4 (Surr) - RA	90		80 - 120
4-Bromofluorobenzene (Surr) - RA	106		80 - 120
Dibromofluoromethane (Surr) - RA	112		80 - 120

Lab Sample ID: 180-126312-27 MSD
Matrix: Water
Analysis Batch: 367451

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane - RA	ND	H F1	10.0	3.55	H F1	ug/L		36	80 - 120	3	15
1,2-Dichloropropane - RA	ND	H F1	10.0	3.41	H F1	ug/L		34	80 - 120	1	14
cis-1,3-Dichloropropene - RA	ND	H F1	10.0	2.69	H F1	ug/L		27	77 - 120	4	35
Bromobenzene - RA	ND	H F1	10.0	3.11	H F1	ug/L		31	80 - 120	0	24
1,1,2,2-Tetrachloroethane - RA	ND	H F1	10.0	2.24	H F1	ug/L		22	74 - 124	3	25
N-Propylbenzene - RA	ND	H F1	10.0	2.98	H F1	ug/L		30	80 - 122	7	22
2-Chlorotoluene - RA	ND	H F1	10.0	2.96	H F1	ug/L		30	80 - 120	1	20
tert-Butylbenzene - RA	ND	H F1	10.0	2.99	H F1	ug/L		30	75 - 123	1	21
1,2,4-Trimethylbenzene - RA	ND	H F1	10.0	3.05	H F1	ug/L		31	80 - 120	0	16
sec-Butylbenzene - RA	ND	H F1	10.0	3.10	H F1	ug/L		31	78 - 122	1	15
4-Isopropyltoluene - RA	ND	H F1	10.0	2.89	H F1	ug/L		29	77 - 126	1	20

Method: 8260D - Volatile Organic Compounds by GC/MS - RA (Continued)

Lab Sample ID: 180-126312-27 MSD
Matrix: Water
Analysis Batch: 367451

Client Sample ID: MW28-082621
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene - RA	ND	H F1	10.0	2.90	H F1	ug/L		29	80 - 122	1	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr) - RA	*111*		*80 - 120*
1,2-Dichloroethane-d4 (Surr) - RA	*92*		*80 - 120*
4-Bromofluorobenzene (Surr) - RA	*106*		*80 - 120*
Dibromofluoromethane (Surr) - RA	*109*		*80 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 580-366730/14-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 12:16	09/02/21 12:53	1
Calcium	ND		0.50	0.034	mg/L		09/01/21 12:16	09/02/21 12:53	1
Iron	ND		0.50	0.061	mg/L		09/01/21 12:16	09/02/21 12:53	1
Magnesium	ND		0.50	0.047	mg/L		09/01/21 12:16	09/02/21 12:53	1
Potassium	ND		3.3	0.17	mg/L		09/01/21 12:16	09/02/21 12:53	1
Sodium	ND		0.50	0.086	mg/L		09/01/21 12:16	09/02/21 12:53	1

Lab Sample ID: LCS 580-366730/15-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	20.0	21.1		mg/L		106	85 - 115
Calcium	20.0	21.7		mg/L		109	85 - 115
Iron	20.0	21.7		mg/L		109	85 - 115
Magnesium	20.0	21.7		mg/L		109	85 - 115
Potassium	20.0	20.6		mg/L		103	85 - 115
Sodium	20.0	21.1		mg/L		106	85 - 115

Lab Sample ID: LCSD 580-366730/16-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	20.0	21.5		mg/L		107	85 - 115	2	20
Calcium	20.0	22.2		mg/L		111	85 - 115	2	20
Iron	20.0	22.2		mg/L		111	85 - 115	2	20
Magnesium	20.0	22.2		mg/L		111	85 - 115	2	20
Potassium	20.0	21.0		mg/L		105	85 - 115	2	20
Sodium	20.0	21.4		mg/L		107	85 - 115	2	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 580-366774/14-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 17:40	09/04/21 11:20	1
Calcium	ND		0.50	0.034	mg/L		09/01/21 17:40	09/04/21 11:20	1
Iron	ND		0.50	0.061	mg/L		09/01/21 17:40	09/04/21 11:20	1
Magnesium	ND		0.50	0.047	mg/L		09/01/21 17:40	09/04/21 11:20	1
Potassium	ND		3.3	0.17	mg/L		09/01/21 17:40	09/04/21 11:20	1
Sodium	ND		0.50	0.086	mg/L		09/01/21 17:40	09/04/21 11:20	1

Lab Sample ID: LCS 580-366774/15-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	20.0	21.5		mg/L		108	85 - 115
Calcium	20.0	22.0		mg/L		110	85 - 115
Iron	20.0	22.2		mg/L		111	85 - 115
Magnesium	20.0	22.3		mg/L		112	85 - 115
Potassium	20.0	21.1		mg/L		105	85 - 115
Sodium	20.0	21.9		mg/L		109	85 - 115

Lab Sample ID: LCSD 580-366774/16-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	20.0	21.5		mg/L		107	85 - 115	0	20
Calcium	20.0	22.0		mg/L		110	85 - 115	0	20
Iron	20.0	22.1		mg/L		111	85 - 115	0	20
Magnesium	20.0	22.3		mg/L		112	85 - 115	0	20
Potassium	20.0	21.1		mg/L		105	85 - 115	0	20
Sodium	20.0	21.9		mg/L		109	85 - 115	0	20

Lab Sample ID: MB 580-366775/14-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/01/21 17:42	09/02/21 16:58	1
Calcium	ND		0.50	0.034	mg/L		09/01/21 17:42	09/02/21 16:58	1
Iron	ND		0.50	0.061	mg/L		09/01/21 17:42	09/02/21 16:58	1
Magnesium	ND		0.50	0.047	mg/L		09/01/21 17:42	09/02/21 16:58	1
Potassium	ND		3.3	0.17	mg/L		09/01/21 17:42	09/02/21 16:58	1
Sodium	ND		0.50	0.086	mg/L		09/01/21 17:42	09/02/21 16:58	1

Lab Sample ID: LCS 580-366775/15-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	20.0	20.6		mg/L		103	85 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-366775/15-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium			20.0	21.3		mg/L		107	85 - 115		
Iron			20.0	21.3		mg/L		106	85 - 115		
Magnesium			20.0	21.3		mg/L		107	85 - 115		
Potassium			20.0	20.4		mg/L		102	85 - 115		
Sodium			20.0	20.4		mg/L		102	85 - 115		

Lab Sample ID: LCSD 580-366775/16-A
Matrix: Water
Analysis Batch: 366900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366775

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum			20.0	21.1		mg/L		105	85 - 115	2	20
Calcium			20.0	21.6		mg/L		108	85 - 115	1	20
Iron			20.0	21.7		mg/L		108	85 - 115	2	20
Magnesium			20.0	21.8		mg/L		109	85 - 115	2	20
Potassium			20.0	20.7		mg/L		104	85 - 115	2	20
Sodium			20.0	20.8		mg/L		104	85 - 115	2	20

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 366900

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	0.13	J	20.0	21.8		mg/L		108	70 - 130		
Calcium	32		20.0	54.2		mg/L		111	70 - 130		
Iron	0.19	J	20.0	22.4		mg/L		111	70 - 130		
Magnesium	15		20.0	37.6		mg/L		111	70 - 130		
Potassium	0.87	J	20.0	22.2		mg/L		106	70 - 130		
Sodium	21		20.0	42.6		mg/L		108	70 - 130		

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 366900

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.13	J	20.0	20.6		mg/L		102	70 - 130	6	20
Calcium	32		20.0	51.3		mg/L		97	70 - 130	5	20
Iron	0.19	J	20.0	21.2		mg/L		105	70 - 130	5	20
Magnesium	15		20.0	35.4		mg/L		101	70 - 130	6	20
Potassium	0.87	J	20.0	20.9		mg/L		100	70 - 130	6	20
Sodium	21		20.0	40.3		mg/L		97	70 - 130	6	20

Lab Sample ID: 180-126312-14 DU
Matrix: Water
Analysis Batch: 366900

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Aluminum	0.13	J		0.0725	J F5	mg/L				54	20
Calcium	32			30.8		mg/L				4	20
Iron	0.19	J		0.128	J F5	mg/L				39	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 180-126312-14 DU
Matrix: Water
Analysis Batch: 366900

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	15		14.7		mg/L		4	20
Potassium	0.87	J	0.729	J	mg/L		18	20
Sodium	21		20.1		mg/L		4	20

Lab Sample ID: MB 580-366895/14-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.50	0.042	mg/L		09/02/21 19:50	09/04/21 13:48	1
Calcium	ND		0.50	0.034	mg/L		09/02/21 19:50	09/04/21 13:48	1
Iron	ND		0.50	0.061	mg/L		09/02/21 19:50	09/04/21 13:48	1
Magnesium	ND		0.50	0.047	mg/L		09/02/21 19:50	09/04/21 13:48	1
Potassium	ND		3.3	0.17	mg/L		09/02/21 19:50	09/04/21 13:48	1
Sodium	ND		0.50	0.086	mg/L		09/02/21 19:50	09/04/21 13:48	1

Lab Sample ID: LCS 580-366895/15-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	20.0	21.5		mg/L		107	85 - 115
Calcium	20.0	21.9		mg/L		110	85 - 115
Iron	20.0	22.0		mg/L		110	85 - 115
Magnesium	20.0	22.0		mg/L		110	85 - 115
Potassium	20.0	21.2		mg/L		106	85 - 115
Sodium	20.0	21.9		mg/L		110	85 - 115

Lab Sample ID: LCSD 580-366895/16-A
Matrix: Water
Analysis Batch: 367026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	20.0	21.3		mg/L		107	85 - 115	1	20
Calcium	20.0	21.9		mg/L		109	85 - 115	0	20
Iron	20.0	21.9		mg/L		109	85 - 115	1	20
Magnesium	20.0	22.0		mg/L		110	85 - 115	0	20
Potassium	20.0	21.2		mg/L		106	85 - 115	0	20
Sodium	20.0	21.9		mg/L		109	85 - 115	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-366730/14-A
Matrix: Water
Analysis Batch: 366901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000730	J	0.0010	0.00020	mg/L		09/01/21 12:16	09/03/21 07:15	1
Antimony	ND		0.00080	0.00013	mg/L		09/01/21 12:16	09/03/21 07:15	1
Barium	0.000824	J	0.0012	0.00021	mg/L		09/01/21 12:16	09/03/21 07:15	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-366730/14-A
Matrix: Water
Analysis Batch: 366901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 12:16	09/03/21 07:15	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 12:16	09/03/21 07:15	1
Chromium	ND		0.00080	0.00017	mg/L		09/01/21 12:16	09/03/21 07:15	1
Cobalt	ND		0.00040	0.000039	mg/L		09/01/21 12:16	09/03/21 07:15	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 12:16	09/03/21 07:15	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 12:16	09/03/21 07:15	1
Manganese	ND		0.0020	0.00046	mg/L		09/01/21 12:16	09/03/21 07:15	1
Nickel	ND		0.0030	0.00013	mg/L		09/01/21 12:16	09/03/21 07:15	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 12:16	09/03/21 07:15	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 12:16	09/03/21 07:15	1
Thallium	0.0000420	J	0.0010	0.000029	mg/L		09/01/21 12:16	09/03/21 07:15	1
Vanadium	ND		0.0040	0.00046	mg/L		09/01/21 12:16	09/03/21 07:15	1
Zinc	ND		0.0070	0.00093	mg/L		09/01/21 12:16	09/03/21 07:15	1

Lab Sample ID: LCS 580-366730/15-A
Matrix: Water
Analysis Batch: 366901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.05		mg/L		105	85 - 115
Antimony	1.00	0.989		mg/L		99	85 - 115
Barium	1.00	1.04		mg/L		104	85 - 115
Beryllium	1.00	1.04		mg/L		104	85 - 115
Cadmium	1.00	1.04		mg/L		104	85 - 115
Chromium	1.00	1.03		mg/L		103	85 - 115
Cobalt	1.00	1.05		mg/L		105	85 - 115
Copper	1.00	1.04		mg/L		104	85 - 115
Lead	1.00	1.05		mg/L		105	85 - 115
Manganese	1.00	1.03		mg/L		103	85 - 115
Nickel	1.00	1.05		mg/L		105	85 - 115
Selenium	1.00	1.09		mg/L		109	85 - 115
Silver	1.00	1.06		mg/L		106	85 - 115
Thallium	1.00	1.04		mg/L		104	85 - 115
Vanadium	1.00	1.03		mg/L		103	85 - 115
Zinc	1.00	1.06		mg/L		106	85 - 115

Lab Sample ID: LCSD 580-366730/16-A
Matrix: Water
Analysis Batch: 366901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.09		mg/L		109	85 - 115	4	20
Antimony	1.00	1.01		mg/L		101	85 - 115	2	20
Barium	1.00	1.06		mg/L		106	85 - 115	2	20
Beryllium	1.00	1.07		mg/L		107	85 - 115	3	20
Cadmium	1.00	1.08		mg/L		108	85 - 115	3	20
Chromium	1.00	1.07		mg/L		107	85 - 115	4	20
Cobalt	1.00	1.09		mg/L		109	85 - 115	4	20
Copper	1.00	1.08		mg/L		108	85 - 115	4	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-366730/16-A
Matrix: Water
Analysis Batch: 366901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366730

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	1.07		mg/L		107	85 - 115	2	20
Manganese			1.00	1.06		mg/L		106	85 - 115	3	20
Nickel			1.00	1.08		mg/L		108	85 - 115	3	20
Selenium			1.00	1.06		mg/L		106	85 - 115	3	20
Silver			1.00	1.09		mg/L		109	85 - 115	4	20
Thallium			1.00	1.07		mg/L		107	85 - 115	3	20
Vanadium			1.00	1.06		mg/L		106	85 - 115	3	20
Zinc			1.00	1.13		mg/L		113	85 - 115	6	20

Lab Sample ID: MB 580-366774/14-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		09/01/21 17:40	09/03/21 09:39	1
Antimony	0.000153	J	0.00080	0.00013	mg/L		09/01/21 17:40	09/03/21 09:39	1
Barium	ND		0.0012	0.00021	mg/L		09/01/21 17:40	09/03/21 09:39	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:40	09/03/21 09:39	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:40	09/03/21 09:39	1
Chromium	ND		0.00080	0.00017	mg/L		09/01/21 17:40	09/03/21 09:39	1
Cobalt	ND		0.00040	0.000039	mg/L		09/01/21 17:40	09/03/21 09:39	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:40	09/03/21 09:39	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:40	09/03/21 09:39	1
Manganese	ND		0.0020	0.00046	mg/L		09/01/21 17:40	09/03/21 09:39	1
Nickel	ND		0.0030	0.00013	mg/L		09/01/21 17:40	09/03/21 09:39	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:40	09/03/21 09:39	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:40	09/03/21 09:39	1
Thallium	0.0000330	J	0.0010	0.000029	mg/L		09/01/21 17:40	09/03/21 09:39	1
Vanadium	ND		0.0040	0.00046	mg/L		09/01/21 17:40	09/03/21 09:39	1
Zinc	ND		0.0070	0.00093	mg/L		09/01/21 17:40	09/03/21 09:39	1

Lab Sample ID: LCS 580-366774/15-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			1.00	1.08		mg/L		108	85 - 115
Antimony			1.00	0.978		mg/L		98	85 - 115
Barium			1.00	1.02		mg/L		102	85 - 115
Beryllium			1.00	1.06		mg/L		106	85 - 115
Cadmium			1.00	1.05		mg/L		105	85 - 115
Chromium			1.00	1.06		mg/L		106	85 - 115
Cobalt			1.00	1.09		mg/L		109	85 - 115
Copper			1.00	1.08		mg/L		108	85 - 115
Lead			1.00	1.07		mg/L		107	85 - 115
Manganese			1.00	1.04		mg/L		104	85 - 115
Nickel			1.00	1.08		mg/L		108	85 - 115
Selenium			1.00	1.08		mg/L		108	85 - 115
Silver			1.00	1.06		mg/L		106	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-366774/15-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	1.00	1.06		mg/L		106	85 - 115
Vanadium	1.00	1.07		mg/L		107	85 - 115
Zinc	1.00	1.08		mg/L		108	85 - 115

Lab Sample ID: LCSD 580-366774/16-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.04		mg/L		104	85 - 115	3	20
Antimony	1.00	0.959		mg/L		96	85 - 115	2	20
Barium	1.00	0.994		mg/L		99	85 - 115	3	20
Beryllium	1.00	1.03		mg/L		103	85 - 115	3	20
Cadmium	1.00	1.02		mg/L		102	85 - 115	3	20
Chromium	1.00	1.03		mg/L		103	85 - 115	3	20
Cobalt	1.00	1.06		mg/L		106	85 - 115	3	20
Copper	1.00	1.04		mg/L		104	85 - 115	3	20
Lead	1.00	1.05		mg/L		105	85 - 115	2	20
Manganese	1.00	1.01		mg/L		101	85 - 115	3	20
Nickel	1.00	1.05		mg/L		105	85 - 115	3	20
Selenium	1.00	1.00		mg/L		100	85 - 115	7	20
Silver	1.00	1.08		mg/L		108	85 - 115	2	20
Thallium	1.00	1.02		mg/L		102	85 - 115	3	20
Vanadium	1.00	1.04		mg/L		104	85 - 115	3	20
Zinc	1.00	1.11		mg/L		111	85 - 115	3	20

Lab Sample ID: MB 580-366775/14-A
Matrix: Water
Analysis Batch: 367053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000282	J	0.0010	0.00020	mg/L		09/01/21 17:42	09/02/21 22:43	1
Antimony	0.000146	J	0.00080	0.00013	mg/L		09/01/21 17:42	09/02/21 22:43	1
Barium	ND		0.0012	0.00021	mg/L		09/01/21 17:42	09/02/21 22:43	1
Beryllium	ND		0.00040	0.00011	mg/L		09/01/21 17:42	09/02/21 22:43	1
Cadmium	ND		0.00040	0.000037	mg/L		09/01/21 17:42	09/02/21 22:43	1
Chromium	ND		0.00080	0.00017	mg/L		09/01/21 17:42	09/02/21 22:43	1
Cobalt	ND		0.00040	0.000039	mg/L		09/01/21 17:42	09/02/21 22:43	1
Copper	ND		0.0020	0.00060	mg/L		09/01/21 17:42	09/02/21 22:43	1
Lead	ND		0.00040	0.000040	mg/L		09/01/21 17:42	09/02/21 22:43	1
Manganese	ND		0.0020	0.00046	mg/L		09/01/21 17:42	09/02/21 22:43	1
Nickel	ND		0.0030	0.00013	mg/L		09/01/21 17:42	09/02/21 22:43	1
Selenium	ND		0.0080	0.0021	mg/L		09/01/21 17:42	09/02/21 22:43	1
Silver	ND		0.00040	0.000025	mg/L		09/01/21 17:42	09/02/21 22:43	1
Thallium	ND		0.0010	0.000029	mg/L		09/01/21 17:42	09/02/21 22:43	1
Vanadium	ND		0.0040	0.00046	mg/L		09/01/21 17:42	09/02/21 22:43	1
Zinc	ND		0.0070	0.00093	mg/L		09/01/21 17:42	09/02/21 22:43	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-366775/15-A
Matrix: Water
Analysis Batch: 367053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			1.00	1.05		mg/L		105	85 - 115		
Antimony			1.00	1.01		mg/L		101	85 - 115		
Barium			1.00	1.08		mg/L		108	85 - 115		
Beryllium			1.00	1.03		mg/L		103	85 - 115		
Cadmium			1.00	1.03		mg/L		103	85 - 115		
Chromium			1.00	1.01		mg/L		101	85 - 115		
Cobalt			1.00	1.04		mg/L		104	85 - 115		
Copper			1.00	1.03		mg/L		103	85 - 115		
Lead			1.00	0.995		mg/L		100	85 - 115		
Manganese			1.00	1.03		mg/L		103	85 - 115		
Nickel			1.00	1.02		mg/L		102	85 - 115		
Selenium			1.00	1.06		mg/L		106	85 - 115		
Silver			1.00	1.04		mg/L		104	85 - 115		
Thallium			1.00	0.987		mg/L		99	85 - 115		
Vanadium			1.00	1.02		mg/L		102	85 - 115		
Zinc			1.00	1.07		mg/L		107	85 - 115		

Lab Sample ID: LCSD 580-366775/16-A
Matrix: Water
Analysis Batch: 367053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366775

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			1.00	1.08		mg/L		108	85 - 115	3	20
Antimony			1.00	1.03		mg/L		103	85 - 115	1	20
Barium			1.00	1.10		mg/L		110	85 - 115	1	20
Beryllium			1.00	1.04		mg/L		104	85 - 115	1	20
Cadmium			1.00	1.04		mg/L		104	85 - 115	1	20
Chromium			1.00	1.03		mg/L		103	85 - 115	2	20
Cobalt			1.00	1.06		mg/L		106	85 - 115	2	20
Copper			1.00	1.05		mg/L		105	85 - 115	2	20
Lead			1.00	1.01		mg/L		101	85 - 115	2	20
Manganese			1.00	1.05		mg/L		105	85 - 115	2	20
Nickel			1.00	1.04		mg/L		104	85 - 115	2	20
Selenium			1.00	1.04		mg/L		104	85 - 115	2	20
Silver			1.00	1.04		mg/L		104	85 - 115	0	20
Thallium			1.00	0.996		mg/L		100	85 - 115	1	20
Vanadium			1.00	1.04		mg/L		104	85 - 115	2	20
Zinc			1.00	1.05		mg/L		105	85 - 115	2	20

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367053

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.0027	B	1.00	1.13		mg/L		113	70 - 130		
Antimony	0.00015	J B	1.00	1.08		mg/L		108	70 - 130		
Barium	0.021		1.00	1.18		mg/L		116	70 - 130		
Beryllium	ND		1.00	1.09		mg/L		109	70 - 130		
Cadmium	ND		1.00	1.10		mg/L		110	70 - 130		

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367053

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.00079	J	1.00	1.07		mg/L		107	70 - 130
Cobalt	0.00083		1.00	1.10		mg/L		110	70 - 130
Copper	0.00078	J	1.00	1.09		mg/L		109	70 - 130
Lead	0.000079	J	1.00	1.07		mg/L		107	70 - 130
Manganese	1.2		1.00	2.09		mg/L		85	70 - 130
Nickel	0.0031		1.00	1.09		mg/L		108	70 - 130
Selenium	ND		1.00	1.15		mg/L		115	70 - 130
Silver	ND		1.00	1.12		mg/L		112	70 - 130
Thallium	ND		1.00	1.05		mg/L		105	70 - 130
Vanadium	0.012		1.00	1.10		mg/L		109	70 - 130
Zinc	0.0051	J	1.00	1.12		mg/L		112	70 - 130

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367053

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0027	B	1.00	1.10		mg/L		110	70 - 130	3	20
Antimony	0.00015	J B	1.00	1.05		mg/L		105	70 - 130	3	20
Barium	0.021		1.00	1.15		mg/L		113	70 - 130	3	20
Beryllium	ND		1.00	1.05		mg/L		105	70 - 130	3	20
Cadmium	ND		1.00	1.06		mg/L		106	70 - 130	3	20
Chromium	0.00079	J	1.00	1.04		mg/L		104	70 - 130	3	20
Cobalt	0.00083		1.00	1.06		mg/L		106	70 - 130	3	20
Copper	0.00078	J	1.00	1.06		mg/L		105	70 - 130	3	20
Lead	0.000079	J	1.00	1.03		mg/L		103	70 - 130	4	20
Manganese	1.2		1.00	1.98		mg/L		74	70 - 130	6	20
Nickel	0.0031		1.00	1.06		mg/L		105	70 - 130	3	20
Selenium	ND		1.00	1.09		mg/L		109	70 - 130	6	20
Silver	ND		1.00	1.06		mg/L		106	70 - 130	5	20
Thallium	ND		1.00	1.02		mg/L		102	70 - 130	3	20
Vanadium	0.012		1.00	1.06		mg/L		105	70 - 130	4	20
Zinc	0.0051	J	1.00	1.07		mg/L		106	70 - 130	5	20

Lab Sample ID: 180-126312-14 DU
Matrix: Water
Analysis Batch: 367053

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0027	B	0.00166	F3	mg/L		47	20
Antimony	0.00015	J B	ND		mg/L		NC	20
Barium	0.021		0.0200		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.00079	J	0.000650	J	mg/L		20	20
Cobalt	0.00083		0.000769		mg/L		8	20
Copper	0.00078	J	0.000855	J	mg/L		9	20
Lead	0.000079	J	ND		mg/L		NC	20
Manganese	1.2		1.19		mg/L		4	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-126312-14 DU
Matrix: Water
Analysis Batch: 367053

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 366775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	0.0031		0.00297	J	mg/L		4	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.012		0.0117		mg/L		5	20
Zinc	0.0051	J	0.00340	J F5	mg/L		40	20

Lab Sample ID: MB 580-366895/14-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		09/02/21 19:50	09/03/21 10:28	1
Antimony	0.000140	J	0.00080	0.00013	mg/L		09/02/21 19:50	09/03/21 10:28	1
Barium	ND		0.0012	0.00021	mg/L		09/02/21 19:50	09/03/21 10:28	1
Beryllium	ND		0.00040	0.00011	mg/L		09/02/21 19:50	09/03/21 10:28	1
Cadmium	ND		0.00040	0.000037	mg/L		09/02/21 19:50	09/03/21 10:28	1
Chromium	ND		0.00080	0.00017	mg/L		09/02/21 19:50	09/03/21 10:28	1
Cobalt	ND		0.00040	0.000039	mg/L		09/02/21 19:50	09/03/21 10:28	1
Copper	ND		0.0020	0.00060	mg/L		09/02/21 19:50	09/03/21 10:28	1
Lead	ND		0.00040	0.000040	mg/L		09/02/21 19:50	09/03/21 10:28	1
Manganese	ND		0.0020	0.00046	mg/L		09/02/21 19:50	09/03/21 10:28	1
Nickel	ND		0.0030	0.00013	mg/L		09/02/21 19:50	09/03/21 10:28	1
Selenium	ND		0.0080	0.0021	mg/L		09/02/21 19:50	09/03/21 10:28	1
Silver	ND		0.00040	0.000025	mg/L		09/02/21 19:50	09/03/21 10:28	1
Thallium	ND		0.0010	0.000029	mg/L		09/02/21 19:50	09/03/21 10:28	1
Vanadium	ND		0.0040	0.00046	mg/L		09/02/21 19:50	09/03/21 10:28	1
Zinc	ND		0.0070	0.00093	mg/L		09/02/21 19:50	09/03/21 10:28	1

Lab Sample ID: LCS 580-366895/15-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.01		mg/L		101	85 - 115
Antimony	1.00	0.950		mg/L		95	85 - 115
Barium	1.00	0.989		mg/L		99	85 - 115
Beryllium	1.00	1.02		mg/L		102	85 - 115
Cadmium	1.00	1.00		mg/L		100	85 - 115
Chromium	1.00	1.02		mg/L		102	85 - 115
Cobalt	1.00	1.04		mg/L		104	85 - 115
Copper	1.00	1.03		mg/L		103	85 - 115
Lead	1.00	1.03		mg/L		103	85 - 115
Manganese	1.00	0.993		mg/L		99	85 - 115
Nickel	1.00	1.03		mg/L		103	85 - 115
Selenium	1.00	1.04		mg/L		104	85 - 115
Silver	1.00	1.08		mg/L		108	85 - 115
Thallium	1.00	0.997		mg/L		100	85 - 115
Vanadium	1.00	1.02		mg/L		102	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-366895/15-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	1.00	1.06		mg/L		106	85 - 115

Lab Sample ID: LCSD 580-366895/16-A
Matrix: Water
Analysis Batch: 367059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.02		mg/L		102	85 - 115	0	20
Antimony	1.00	0.950		mg/L		95	85 - 115	0	20
Barium	1.00	1.01		mg/L		101	85 - 115	2	20
Beryllium	1.00	1.02		mg/L		102	85 - 115	0	20
Cadmium	1.00	1.01		mg/L		101	85 - 115	1	20
Chromium	1.00	1.03		mg/L		103	85 - 115	1	20
Cobalt	1.00	1.05		mg/L		105	85 - 115	1	20
Copper	1.00	1.03		mg/L		103	85 - 115	0	20
Lead	1.00	1.05		mg/L		105	85 - 115	1	20
Manganese	1.00	0.993		mg/L		99	85 - 115	0	20
Nickel	1.00	1.04		mg/L		104	85 - 115	1	20
Selenium	1.00	1.01		mg/L		101	85 - 115	2	20
Silver	1.00	1.05		mg/L		105	85 - 115	3	20
Thallium	1.00	1.01		mg/L		101	85 - 115	1	20
Vanadium	1.00	1.03		mg/L		103	85 - 115	1	20
Zinc	1.00	1.02		mg/L		102	85 - 115	4	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 580-366566/14-A
Matrix: Water
Analysis Batch: 366692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		08/31/21 05:45	08/31/21 11:34	1

Lab Sample ID: LCS 580-366566/15-A
Matrix: Water
Analysis Batch: 366692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00178		mg/L		89	85 - 115

Lab Sample ID: LCSD 580-366566/16-A
Matrix: Water
Analysis Batch: 366692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 366566

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00200	0.00196		mg/L		98	85 - 115	10	20

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: MB 580-367213/22-A
Matrix: Water
Analysis Batch: 367303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/08/21 11:17	09/08/21 16:19	1

Lab Sample ID: LCS 580-367213/23-A
Matrix: Water
Analysis Batch: 367303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00200	0.00192		mg/L		96	85 - 115		

Lab Sample ID: LCSD 580-367213/24-A
Matrix: Water
Analysis Batch: 367303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 367213

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.00200	0.00200		mg/L		100	85 - 115	4	20

Lab Sample ID: 180-126312-14 MS
Matrix: Water
Analysis Batch: 367303

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 367213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00200	0.00204		mg/L		102	70 - 130		

Lab Sample ID: 180-126312-14 MSD
Matrix: Water
Analysis Batch: 367303

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 367213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00200	0.00190		mg/L		95	70 - 130	7	20

Lab Sample ID: 180-126312-14 DU
Matrix: Water
Analysis Batch: 367303

Client Sample ID: MW20-082421
Prep Type: Total/NA
Prep Batch: 367213

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 366920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	8260D	
180-126312-2	MW3-082321	Total/NA	Water	8260D	
180-126312-3	MW26-082321	Total/NA	Water	8260D	
180-126312-4	MW14-082321	Total/NA	Water	8260D	
180-126312-5	MW13-082321	Total/NA	Water	8260D	
180-126312-6	MW23-082321	Total/NA	Water	8260D	
180-126312-7	MW29-082321	Total/NA	Water	8260D	
180-126312-8	MW4-082321	Total/NA	Water	8260D	
180-126312-9	MW8-082421	Total/NA	Water	8260D	
MB 580-366920/4	Method Blank	Total/NA	Water	8260D	
LCS 580-366920/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-366920/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 367090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-10	MW25-082421	Total/NA	Water	8260D	
180-126312-11	MW9-082421	Total/NA	Water	8260D	
180-126312-12	MW19-082421	Total/NA	Water	8260D	
180-126312-13	MW10-082421	Total/NA	Water	8260D	
MB 580-367090/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367090/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367090/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 367095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-14	MW20-082421	Total/NA	Water	8260D	
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	8260D	
180-126312-16	MW22-082421	Total/NA	Water	8260D	
MB 580-367095/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367095/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367095/5	Lab Control Sample Dup	Total/NA	Water	8260D	
180-126312-14 MS	MW20-082421	Total/NA	Water	8260D	
180-126312-14 MSD	MW20-082421	Total/NA	Water	8260D	

Analysis Batch: 367166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-17	MW6-082521	Total/NA	Water	8260D	
180-126312-18	MW30-082521	Total/NA	Water	8260D	
180-126312-19	MW31-082521	Total/NA	Water	8260D	
180-126312-20	MW5-082521	Total/NA	Water	8260D	
180-126312-21	MW11-082521	Total/NA	Water	8260D	
180-126312-22	MW24-082521	Total/NA	Water	8260D	
180-126312-22 - DL	MW24-082521	Total/NA	Water	8260D	
180-126312-23	MW101-082521	Total/NA	Water	8260D	
180-126312-24	MW100-082521	Total/NA	Water	8260D	
180-126312-25	MW102-082521	Total/NA	Water	8260D	
180-126312-26	MW103-082521	Total/NA	Water	8260D	
MB 580-367166/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367166/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367166/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS VOA

Analysis Batch: 367251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-14 - DL	MW20-082421	Total/NA	Water	8260D	
180-126312-15 - DL	MW20-082421-DUPLICATE	Total/NA	Water	8260D	
MB 580-367251/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367251/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367251/5	Lab Control Sample Dup	Total/NA	Water	8260D	
180-126312-14 MS - DL	MW20-082421	Total/NA	Water	8260D	
180-126312-14 MSD - DL	MW20-082421	Total/NA	Water	8260D	

Analysis Batch: 367311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-27	MW28-082621	Total/NA	Water	8260D	
180-126312-28	MW28-082621 DUPLICATE	Total/NA	Water	8260D	
180-126312-29	MW18-082621	Total/NA	Water	8260D	
180-126312-30	MW27-082621	Total/NA	Water	8260D	
180-126312-31	MW15-082621	Total/NA	Water	8260D	
180-126312-32	MW16-082621	Total/NA	Water	8260D	
180-126312-33	MW-7-082621	Total/NA	Water	8260D	
180-126312-34	TRIP BLANK	Total/NA	Water	8260D	
MB 580-367311/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367311/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367311/5	Lab Control Sample Dup	Total/NA	Water	8260D	
180-126312-27 MS	MW28-082621	Total/NA	Water	8260D	
180-126312-27 MSD	MW28-082621	Total/NA	Water	8260D	

Analysis Batch: 367451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-27 - RA	MW28-082621	Total/NA	Water	8260D	
180-126312-28 - RA	MW28-082621 DUPLICATE	Total/NA	Water	8260D	
180-126312-29 - RA	MW18-082621	Total/NA	Water	8260D	
180-126312-30 - RA	MW27-082621	Total/NA	Water	8260D	
180-126312-31 - RA	MW15-082621	Total/NA	Water	8260D	
180-126312-32 - RA	MW16-082621	Total/NA	Water	8260D	
180-126312-33 - RA	MW-7-082621	Total/NA	Water	8260D	
180-126312-34 - RA	TRIP BLANK	Total/NA	Water	8260D	
MB 580-367451/7	Method Blank	Total/NA	Water	8260D	
LCS 580-367451/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 580-367451/5	Lab Control Sample Dup	Total/NA	Water	8260D	
180-126312-27 MS - RA	MW28-082621	Total/NA	Water	8260D	
180-126312-27 MSD - RA	MW28-082621	Total/NA	Water	8260D	

Metals

Prep Batch: 366566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	245.1	
180-126312-2	MW3-082321	Total/NA	Water	245.1	
180-126312-4	MW14-082321	Total/NA	Water	245.1	
180-126312-5	MW13-082321	Total/NA	Water	245.1	
180-126312-6	MW23-082321	Total/NA	Water	245.1	
MB 580-366566/14-A	Method Blank	Total/NA	Water	245.1	
LCS 580-366566/15-A	Lab Control Sample	Total/NA	Water	245.1	

Metals (Continued)

Prep Batch: 366566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 580-366566/16-A	Lab Control Sample Dup	Total/NA	Water	245.1	

Analysis Batch: 366692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	245.1	366566
180-126312-2	MW3-082321	Total/NA	Water	245.1	366566
180-126312-4	MW14-082321	Total/NA	Water	245.1	366566
180-126312-5	MW13-082321	Total/NA	Water	245.1	366566
180-126312-6	MW23-082321	Total/NA	Water	245.1	366566
MB 580-366566/14-A	Method Blank	Total/NA	Water	245.1	366566
LCS 580-366566/15-A	Lab Control Sample	Total/NA	Water	245.1	366566
LCSD 580-366566/16-A	Lab Control Sample Dup	Total/NA	Water	245.1	366566

Prep Batch: 366730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	200.7	
180-126312-2	MW3-082321	Total/NA	Water	200.7	
MB 580-366730/14-A	Method Blank	Total/NA	Water	200.8	
LCS 580-366730/15-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 580-366730/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	

Prep Batch: 366774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-29	MW18-082621	Total/NA	Water	200.8	
180-126312-31	MW15-082621	Total/NA	Water	200.8	
180-126312-32	MW16-082621	Total/NA	Water	200.8	
MB 580-366774/14-A	Method Blank	Total/NA	Water	200.8	
LCS 580-366774/15-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 580-366774/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	

Prep Batch: 366775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-4	MW14-082321	Total/NA	Water	200.8	
180-126312-5	MW13-082321	Total/NA	Water	200.8	
180-126312-6	MW23-082321	Total/NA	Water	200.8	
180-126312-8	MW4-082321	Total/NA	Water	200.8	
180-126312-12	MW19-082421	Total/NA	Water	200.8	
180-126312-14	MW20-082421	Total/NA	Water	200.8	
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	200.8	
180-126312-16	MW22-082421	Total/NA	Water	200.8	
180-126312-17	MW6-082521	Total/NA	Water	200.8	
MB 580-366775/14-A	Method Blank	Total/NA	Water	200.8	
LCS 580-366775/15-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 580-366775/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	
180-126312-14 MS	MW20-082421	Total/NA	Water	200.8	
180-126312-14 MSD	MW20-082421	Total/NA	Water	200.8	
180-126312-14 DU	MW20-082421	Total/NA	Water	200.8	

Prep Batch: 366895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-22	MW24-082521	Total/NA	Water	200.8	

Metals (Continued)

Prep Batch: 366895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-366895/14-A	Method Blank	Total/NA	Water	200.8	
LCS 580-366895/15-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 580-366895/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	

Analysis Batch: 366900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	200.7 Rev 4.4	366730
180-126312-2	MW3-082321	Total/NA	Water	200.7 Rev 4.4	366730
180-126312-4	MW14-082321	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-5	MW13-082321	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-6	MW23-082321	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-8	MW4-082321	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-12	MW19-082421	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-14	MW20-082421	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-16	MW22-082421	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-17	MW6-082521	Total/NA	Water	200.7 Rev 4.4	366775
MB 580-366730/14-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	366730
MB 580-366775/14-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	366775
LCS 580-366730/15-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	366730
LCS 580-366775/15-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	366775
LCSD 580-366730/16-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	366730
LCSD 580-366775/16-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-14 MS	MW20-082421	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-14 MSD	MW20-082421	Total/NA	Water	200.7 Rev 4.4	366775
180-126312-14 DU	MW20-082421	Total/NA	Water	200.7 Rev 4.4	366775

Analysis Batch: 366901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-366730/14-A	Method Blank	Total/NA	Water	200.8	366730
LCS 580-366730/15-A	Lab Control Sample	Total/NA	Water	200.8	366730
LCSD 580-366730/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	366730

Analysis Batch: 367026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-22	MW24-082521	Total/NA	Water	200.7 Rev 4.4	366895
180-126312-29	MW18-082621	Total/NA	Water	200.7 Rev 4.4	366774
180-126312-31	MW15-082621	Total/NA	Water	200.7 Rev 4.4	366774
180-126312-32	MW16-082621	Total/NA	Water	200.7 Rev 4.4	366774
MB 580-366774/14-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	366774
MB 580-366895/14-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	366895
LCS 580-366774/15-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	366774
LCS 580-366895/15-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	366895
LCSD 580-366774/16-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	366774
LCSD 580-366895/16-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	366895

Analysis Batch: 367053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-1	MW17-082321	Total/NA	Water	200.8	366730
180-126312-2	MW3-082321	Total/NA	Water	200.8	366730
180-126312-4	MW14-082321	Total/NA	Water	200.8	366775

Metals (Continued)

Analysis Batch: 367053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-5	MW13-082321	Total/NA	Water	200.8	366775
180-126312-6	MW23-082321	Total/NA	Water	200.8	366775
180-126312-8	MW4-082321	Total/NA	Water	200.8	366775
180-126312-12	MW19-082421	Total/NA	Water	200.8	366775
180-126312-14	MW20-082421	Total/NA	Water	200.8	366775
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	200.8	366775
180-126312-16	MW22-082421	Total/NA	Water	200.8	366775
180-126312-17	MW6-082521	Total/NA	Water	200.8	366775
MB 580-366775/14-A	Method Blank	Total/NA	Water	200.8	366775
LCS 580-366775/15-A	Lab Control Sample	Total/NA	Water	200.8	366775
LCSD 580-366775/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	366775
180-126312-14 MS	MW20-082421	Total/NA	Water	200.8	366775
180-126312-14 MSD	MW20-082421	Total/NA	Water	200.8	366775
180-126312-14 DU	MW20-082421	Total/NA	Water	200.8	366775

Analysis Batch: 367059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-22	MW24-082521	Total/NA	Water	200.8	366895
180-126312-29	MW18-082621	Total/NA	Water	200.8	366774
180-126312-31	MW15-082621	Total/NA	Water	200.8	366774
180-126312-32	MW16-082621	Total/NA	Water	200.8	366774
MB 580-366774/14-A	Method Blank	Total/NA	Water	200.8	366774
MB 580-366895/14-A	Method Blank	Total/NA	Water	200.8	366895
LCS 580-366774/15-A	Lab Control Sample	Total/NA	Water	200.8	366774
LCS 580-366895/15-A	Lab Control Sample	Total/NA	Water	200.8	366895
LCSD 580-366774/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	366774
LCSD 580-366895/16-A	Lab Control Sample Dup	Total/NA	Water	200.8	366895

Prep Batch: 367213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-8	MW4-082321	Total/NA	Water	245.1	
180-126312-12	MW19-082421	Total/NA	Water	245.1	
180-126312-14	MW20-082421	Total/NA	Water	245.1	
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	245.1	
180-126312-16	MW22-082421	Total/NA	Water	245.1	
180-126312-17	MW6-082521	Total/NA	Water	245.1	
180-126312-22	MW24-082521	Total/NA	Water	245.1	
180-126312-29	MW18-082621	Total/NA	Water	245.1	
180-126312-31	MW15-082621	Total/NA	Water	245.1	
180-126312-32	MW16-082621	Total/NA	Water	245.1	
MB 580-367213/22-A	Method Blank	Total/NA	Water	245.1	
LCS 580-367213/23-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 580-367213/24-A	Lab Control Sample Dup	Total/NA	Water	245.1	
180-126312-14 MS	MW20-082421	Total/NA	Water	245.1	
180-126312-14 MSD	MW20-082421	Total/NA	Water	245.1	
180-126312-14 DU	MW20-082421	Total/NA	Water	245.1	

Analysis Batch: 367303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-8	MW4-082321	Total/NA	Water	245.1	367213
180-126312-12	MW19-082421	Total/NA	Water	245.1	367213

Metals (Continued)

Analysis Batch: 367303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126312-14	MW20-082421	Total/NA	Water	245.1	367213
180-126312-15	MW20-082421-DUPLICATE	Total/NA	Water	245.1	367213
180-126312-16	MW22-082421	Total/NA	Water	245.1	367213
180-126312-17	MW6-082521	Total/NA	Water	245.1	367213
180-126312-22	MW24-082521	Total/NA	Water	245.1	367213
180-126312-29	MW18-082621	Total/NA	Water	245.1	367213
180-126312-31	MW15-082621	Total/NA	Water	245.1	367213
180-126312-32	MW16-082621	Total/NA	Water	245.1	367213
MB 580-367213/22-A	Method Blank	Total/NA	Water	245.1	367213
LCS 580-367213/23-A	Lab Control Sample	Total/NA	Water	245.1	367213
LCSD 580-367213/24-A	Lab Control Sample Dup	Total/NA	Water	245.1	367213
180-126312-14 MS	MW20-082421	Total/NA	Water	245.1	367213
180-126312-14 MSD	MW20-082421	Total/NA	Water	245.1	367213
180-126312-14 DU	MW20-082421	Total/NA	Water	245.1	367213

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

Therm. ID: IR9 Cor: -1.1 ° Unc: -1.1 °
Cooler Dsc: LB
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: P.O
UPS: ___
Lab Courier: ___
Other: ___

eurofins Environment Testing America

Client Information	Sampler: DAVE HREHA	Lab PM: Colussy, Jill L		COC No: 180-73598-14249.1
Client Contact: Jason Somes	Phone: 412-386-7497	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin: ALBANY, OREGON	Page: Page 1 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SOS30042			
Email: Jason.Somes@NETL.DOE.GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18024354			
Site: ALBANY	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Standard List VOC's 8260D	Total Metals (200.8, 200.7, 245.1)	180-126312 Chain of Custody	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B			
MW17-082321	08/23/21	0910	G	W	N	N	3	1		4	SAMPLES HELD ON ICE!
MW3-082321	08/23/21	1015	G	W	N	N	3	1		4	METALS: 245.1 (MERCURY)
MW26-082321	08/23/21	1105	G	W	N	N	3			3	200.7 (Al, Ca, Fe, Mg, K, Na)
MW14-082321	08/23/21	1145	G	W	N	N	3	1		4	200.8 (Sb, As, Ba, Be, Cd, Cr
MW13-082321	08/23/21	1335	G	W	N	N	3	1		4	Co, Cu)
MW25-082321	08/23/21	1430	G	W	N	N	3	1		4	
MW29-082321	08/23/21	1530	G	W	N	N	3			3	
MW4-082321	08/23/21	1605	G	W	N	N	3	1		4	
MW8-082421	08/24/21	0825	G	W	N	N	3			3	
MW25-082421	08/24/21	0855	G	W	N	N	3			3	
MW9-082421	08/24/21	0955	G	W	N	N	3			3	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: David Hreha	08/27/21 1050	AMENTUM	Received by:	8/27/21 1050	ETLS
Relinquished by:	8/27/21 1700	ETLS	Received by:	8/28/21 0945	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0

IR9 -1.1 8-28-21 DW

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DAVE HRENA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-73598-14249.2
Client Contact: Jason Somes	Phone: 412-386-7497	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin: ALBANY, OREGON	Page: Page 2 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SOS30042			
Email: Jason.Somes@NETL.DOE.GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18024354			
Site: ALBANY	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Standard List Voes 8260D	Total Metals (200.8, 200.7, 245.1)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D		
MW19-082421	08/24/21	1030	G	W	N	N	3	1	4	SAMPLES HELD ON ICE!
MW10-082421	08/24/21	1300	G	W	N	N	3		3	
MW20-082421	08/24/21	1335	G	W	N	N	3	1	4	METALS: 245.1 (MERCURY)
MW20-082421-DUPLICATE	08/24/21	1335	G	W	N	N	3	1	4	200.7 (Al, Ca, Fe, Mg, K, Na)
MW20-082421-MS	08/24/21	1335	G	W	N	Y	3	1	4	200.8 (Sb, As, Ba, Be, Cd, Cr
MW20-082421-MSD	08/24/21	1335	G	W	N	Y	3	1	4	Co, Cu)
MW22-082421	08/24/21	1455	G	W	N	N	3	1	4	
MW6-082521	08/25/21	0820	G	W	N	N	3	1	4	
MW30-082521	08/25/21	0905	G	W	N	N	3		3	
MW31-082521	08/25/21	0945	G	W	N	N	3		3	
MW5-082521	08/25/21	1025	G	W	N	N	3		3	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	David Hrenha	08/27/21 1050	Amentum		8/27/21 1050	EFGS
2		8/27/21 1900	EFGS		8/28/21 0945	EFGS
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: DAVE HREHA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-73598-14249.3
Client Contact: Jason Somes	Phone: 412-386-7497	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin: ALBANY, OREGON	Page: Page 3 of 4
Company: WE2 Support Services	PWSID:	Analysis Requested		Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SOS30042			Other:
Email: Jason.Somes@NETL.DOE.GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18024354			
Site: ALBANY	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Standard List VOC's 8260D	Total Metals (200.8, 200.7, 245.1)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	B		
MW11-082521	08/25/21	1135	G	W	N	N	3		3	SAMPLES HELD ON ICE!
MW24-082521	08/25/21	1215	G	W	N	N	3	1	4	
MW101-082521	08/25/21	1410	G	W	N	N	3		3	METALS: 245.1 (MERCURY)
MW100-082521	08/25/21	1450	G	W	N	N	3		3	200.7 (Al, Ca, Fe, Mg, K, Na)
MW102-082521	08/25/21	1530	G	W	N	N	3		3	200.8 (Sb, As, Ba, Be, Cd,
MW103-082521	08/25/21	1605	G	W	N	N	3		3	Cr, Co, Cu)
MW28-082621	08/26/21	0905	G	W	N	N	3		3	
MW28-082621-DUPLICATE	08/26/21	0905	G	W	N	N	3		3	
MW28-082621-MS	08/26/21	0905	G	W	N	Y	3		3	
MW28-082621-MSD	08/26/21	0905	G	W	N	Y	3		3	
MW18-082621	08/26/21	0945	G	W	N	N	3	1	4	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Hreha	08/27/21 1050	AMENTUM		8/27/21 1050	EFGS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/27/21 1700	EFGS		8/28/21 0945	EFGS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0
		IRA = -1.1/-1.1

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Dave Hreha	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-73598-14249.4
Client Contact: Jason Somes	Phone: 412-386-7497	E-Mail: Jill.Colussy@Eurofinset.com	State of Origin:	Page: Page 4 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SOS30042			
Email: Jason.Somes@NETL.DOE.GOV	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 18024354			
Site: Albany	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Preservation Code:	Standard List VOC's 8260D	Total Metals (200.8, 200.7, 245.1)	Total Number of containers	Special Instructions/Note:
								A	D		
MW27-082621	08/26/21	1000	G	W	N	N	3			3	Samples Held On Ice!
MW15-082621	08/26/21	1050	G	W	N	N	3	1		4	
MW16-082621	08/26/21	1305	G	W	N	N	3	1		4	Metals: 245.1 (Mercury)
MW7-082621	08/26/21	1350	G	W	N	N	3			3	200.7 (Al, Ca, Fe, Mg, K, Na)
Trip Blank Lot# 1057	08/23-26/21	—	G	W	N	N	3			3	200.8 (Sb, As, Ba, Be, Cd, Cr, Co, Cu)

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Hreha	08/27/21 1050	Amentum		8/27/21 1050	EFGS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/27/21 1700	EFGS		8/28/21 0945	EFGS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-126312-1

Login Number: 126312
List Number: 2
Creator: Presley, Kim A

List Source: Eurofins FGS, Seattle
List Creation: 08/30/21 12:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9=-1.0c/-1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-126318-1
Client Project/Site: Dept of Energy- NETL - Albany, OR

For:
WE2 Support Services
1450 Queen Avenue SW
Albany, Oregon 97321

Attn: Mark Thomas

Authorized for release by:
9/14/2021 8:42:26 AM

Jill Colussy, Project Manager I
(412)963-2444
Jill.Colussy@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416

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Job ID: 180-126318-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-126318-1

Receipt
The sample was received on 8/28/2021 10:50 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -1.0º C.

GC/MS VOA
Sample TCLP-PURGE WATER (180-126318-1) had surrogate 1,2-Dichloroethane-d4 recover below the control limits. Evidence of matrix interference was present; therefore, re-extraction and/or re-analysis were not performed.

The relative percent difference between the laboratory control standard and the laboratory control duplicate was outside of the control limits for several analytes. All recoveries were within the control limits. All data was reported.

The continuing calibration verification (CCV) associated with batch 580-367251 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

GC/MS Semi VOA
Sample TCLP-PURGE WATER (180-126318-1) had surrogate Terphenyl-d14 recover above the control limits. Evidence of matrix interference was present; therefore, re-extraction and/or re-analysis was not performed.

The method blank for batch 580-367051 recovered above the control limits for surrogate Terphenyl-d14. The method blank was non-detect for all target compounds. All data was reported.

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

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

Definitions/Glossary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126318-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: WE2 Support Services
Job ID: 180-126318-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-07-22

Sample Summary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-126318-1	TCLP-PURGE WATER	Water	08/27/21 08:20	08/28/21 10:50

Method Summary

Client: WE2 Support Services
Project/Site: Dept of Energy- NETL - Albany, OR

Job ID: 180-126318-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	FGS SEA
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	FGS SEA
6010D	Metals (ICP)	SW846	FGS SEA
7470A	Mercury (CVAA)	SW846	FGS SEA
1311	TCLP Extraction	SW846	FGS SEA
3010A	Preparation, Total Metals	SW846	FGS SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	FGS SEA
5030B	Purge and Trap	SW846	FGS SEA
7470A	Preparation, Mercury	SW846	FGS SEA

Protocol References:

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

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Lab Chronicle

Client: WE2 Support Services
Job ID: 180-126318-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: TCLP-PURGE WATER
Lab Sample ID: 180-126318-1
Date Collected: 08/27/21 08:20
Matrix: Water
Date Received: 08/28/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	366796	09/02/21 09:02	JLS	FGS SEA
TCLP	Analysis	8260D		100	5 mL	5 mL	367251	09/09/21 00:09	B1M	FGS SEA
	Instrument ID: SEA102									
TCLP	Leach	1311			1.0 g	1.0 mL	367051	09/07/21 09:58	JLS	FGS SEA
TCLP	Prep	3510C			250 mL	2 mL	367375	09/09/21 15:07	JHR	FGS SEA
TCLP	Analysis	8270E		1			367483	09/10/21 20:13	W1T	FGS SEA
	Instrument ID: TAC040									
TCLP	Leach	1311			1.0 g	1.0 mL	367051	09/07/21 09:58	JLS	FGS SEA
TCLP	Prep	3010A			50 mL	50 mL	367228	09/08/21 12:51	JLS	FGS SEA
TCLP	Analysis	6010D		1			367368	09/09/21 12:38	C1K	FGS SEA
	Instrument ID: TAC047									
TCLP	Leach	1311			1.0 g	1.0 mL	367051	09/07/21 09:58	JLS	FGS SEA
TCLP	Prep	7470A			5 mL	50 mL	367224	09/08/21 12:46	JLS	FGS SEA
TCLP	Analysis	7470A		1			367306	09/08/21 18:23	JLS	FGS SEA
	Instrument ID: TAC103									

Laboratory References:
FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Analyst References:
Lab: FGS SEA
- Batch Type: Leach
  - JLS = Joshua Sloan
- Batch Type: Prep
  - JHR = Jacob Roberts
  - JLS = Joshua Sloan
- Batch Type: Analysis
  - B1M = Brady Mautz
  - C1K = Christine Knight
  - JLS = Joshua Sloan
  - W1T = Wijittra Thaneerat

Client Sample ID: TCLP-PURGE WATER
Lab Sample ID: 180-126318-1

Date Collected: 08/27/21 08:20
Matrix: Water
Date Received: 08/28/21 10:50

Method: 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	28	ug/L			09/09/21 00:09	100
1,2-Dichloroethane	ND	*1	100	42	ug/L			09/09/21 00:09	100
2-Butanone	ND		1500	470	ug/L			09/09/21 00:09	100
Benzene	ND	*1	100	24	ug/L			09/09/21 00:09	100
Carbon tetrachloride	ND		100	30	ug/L			09/09/21 00:09	100
Chlorobenzene	ND	*1	100	44	ug/L			09/09/21 00:09	100
Chloroform	ND	*1	100	26	ug/L			09/09/21 00:09	100
Tetrachloroethene	ND	*1	100	41	ug/L			09/09/21 00:09	100
Trichloroethene	ND	*1	100	26	ug/L			09/09/21 00:09	100
Vinyl chloride	ND		100	22	ug/L			09/09/21 00:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*	*S1-*	*80 - 120*		*09/09/21 00:09*	*100*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/09/21 00:09*	*100*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/09/21 00:09*	*100*
Toluene-d8 (Surr)	*108*		*80 - 120*		*09/09/21 00:09*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.6	0.16	ug/L		09/09/21 15:07	09/10/21 20:13	1
2-Methylphenol	ND		2.4	0.20	ug/L		09/09/21 15:07	09/10/21 20:13	1
3 & 4 Methylphenol	ND		2.4	0.40	ug/L		09/09/21 15:07	09/10/21 20:13	1
Hexachloroethane	ND		4.0	0.20	ug/L		09/09/21 15:07	09/10/21 20:13	1
Nitrobenzene	ND		4.0	0.16	ug/L		09/09/21 15:07	09/10/21 20:13	1
Hexachlorobutadiene	ND		4.0	0.24	ug/L		09/09/21 15:07	09/10/21 20:13	1
2,4,6-Trichlorophenol	ND		2.4	0.40	ug/L		09/09/21 15:07	09/10/21 20:13	1
2,4,5-Trichlorophenol	ND		1.6	0.40	ug/L		09/09/21 15:07	09/10/21 20:13	1
2,4-Dinitrotoluene	ND		4.0	0.40	ug/L		09/09/21 15:07	09/10/21 20:13	1
Hexachlorobenzene	ND		2.4	0.16	ug/L		09/09/21 15:07	09/10/21 20:13	1
Pentachlorophenol	ND		40	2.0	ug/L		09/09/21 15:07	09/10/21 20:13	1
Pyridine	ND		40	4.2	ug/L		09/09/21 15:07	09/10/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*70*		*20 - 147*	*09/09/21 15:07*	*09/10/21 20:13*	*1*
Phenol-d5 (Surr)	*66*		*21 - 135*	*09/09/21 15:07*	*09/10/21 20:13*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*28 - 131*	*09/09/21 15:07*	*09/10/21 20:13*	*1*
Nitrobenzene-d5 (Surr)	*76*		*60 - 120*	*09/09/21 15:07*	*09/10/21 20:13*	*1*
2-Fluorobiphenyl	*77*		*63 - 120*	*09/09/21 15:07*	*09/10/21 20:13*	*1*
Terphenyl-d14 (Surr)	*131*	*S1+*	*66 - 120*	*09/09/21 15:07*	*09/10/21 20:13*	*1*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		09/08/21 12:51	09/09/21 12:38	1
Barium	**0.014**	**J**	0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 12:38	1
Cadmium	ND		0.020	0.00020	mg/L		09/08/21 12:51	09/09/21 12:38	1
Chromium	ND		0.025	0.0013	mg/L		09/08/21 12:51	09/09/21 12:38	1
Copper	**0.0081**	**J**	0.060	0.0055	mg/L		09/08/21 12:51	09/09/21 12:38	1
Lead	**0.0028**	**J**	0.030	0.0027	mg/L		09/08/21 12:51	09/09/21 12:38	1
Molybdenum	ND		0.040	0.0012	mg/L		09/08/21 12:51	09/09/21 12:38	1
Nickel	ND		0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 12:38	1

Client: WE2 Support Services
Job ID: 180-126318-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: TCLP-PURGE WATER
Lab Sample ID: 180-126318-1
Date Collected: 08/27/21 08:20
Matrix: Water
Date Received: 08/28/21 10:50

Method: 6010D - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.10	0.0087	mg/L		09/08/21 12:51	09/09/21 12:38	1
Silver	ND		0.050	0.0085	mg/L		09/08/21 12:51	09/09/21 12:38	1
Zinc	ND		0.040	0.0093	mg/L		09/08/21 12:51	09/09/21 12:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		09/08/21 12:46	09/08/21 18:23	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-366796/6-A
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	28	ug/L			09/08/21 23:44	100
1,2-Dichloroethane	ND		100	42	ug/L			09/08/21 23:44	100
2-Butanone	ND		1500	470	ug/L			09/08/21 23:44	100
Benzene	ND		100	24	ug/L			09/08/21 23:44	100
Carbon tetrachloride	ND		100	30	ug/L			09/08/21 23:44	100
Chlorobenzene	ND		100	44	ug/L			09/08/21 23:44	100
Chloroform	ND		100	26	ug/L			09/08/21 23:44	100
Tetrachloroethene	ND		100	41	ug/L			09/08/21 23:44	100
Trichloroethene	ND		100	26	ug/L			09/08/21 23:44	100
Vinyl chloride	ND		100	22	ug/L			09/08/21 23:44	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*09/08/21 23:44*	*100*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/08/21 23:44*	*100*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*09/08/21 23:44*	*100*
Toluene-d8 (Surr)	*110*		*80 - 120*		*09/08/21 23:44*	*100*

Lab Sample ID: LCS 580-366796/7-A
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Lab Control Sample
Prep Type: TCLP

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1000	1170		ug/L		117	70 - 129
1,2-Dichloroethane	1000	1060		ug/L		106	69 - 126
2-Butanone	5000	5910		ug/L		118	65 - 137
Benzene	1000	1130		ug/L		113	80 - 122
Carbon tetrachloride	1000	1280		ug/L		128	72 - 129
Chlorobenzene	1000	1160		ug/L		116	80 - 120
Chloroform	1000	1120		ug/L		112	78 - 127
Tetrachloroethene	1000	1220		ug/L		122	76 - 125
Trichloroethene	1000	1240		ug/L		124	80 - 125
Vinyl chloride	1000	1460		ug/L		146	31 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: LCSD 580-366796/8-A
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1000	1010		ug/L		101	70 - 129	15	23
1,2-Dichloroethane	1000	903	*1	ug/L		90	69 - 126	16	11
2-Butanone	5000	4390		ug/L		88	65 - 137	29	34
Benzene	1000	966	*1	ug/L		97	80 - 122	15	14

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

Lab Sample ID: LCSD 580-366796/8-A
Matrix: Water
Analysis Batch: 367251

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	1000	1130		ug/L		113	72 - 129	13	19
Chlorobenzene	1000	961	*1	ug/L		96	80 - 120	19	10
Chloroform	1000	965	*1	ug/L		96	78 - 127	15	14
Tetrachloroethene	1000	1030	*1	ug/L		103	76 - 125	17	13
Trichloroethene	1000	1050	*1	ug/L		105	80 - 125	17	13
Vinyl chloride	1000	1330		ug/L		133	31 - 150	9	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

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

Lab Sample ID: MB 580-367051/25-D
Matrix: Water
Analysis Batch: 367483

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 367375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.6	0.16	ug/L		09/09/21 15:07	09/10/21 17:51	1
2-Methylphenol	ND		2.4	0.20	ug/L		09/09/21 15:07	09/10/21 17:51	1
3 & 4 Methylphenol	ND		2.4	0.40	ug/L		09/09/21 15:07	09/10/21 17:51	1
Hexachloroethane	ND		4.0	0.20	ug/L		09/09/21 15:07	09/10/21 17:51	1
Nitrobenzene	ND		4.0	0.16	ug/L		09/09/21 15:07	09/10/21 17:51	1
Hexachlorobutadiene	ND		4.0	0.24	ug/L		09/09/21 15:07	09/10/21 17:51	1
2,4,6-Trichlorophenol	ND		2.4	0.40	ug/L		09/09/21 15:07	09/10/21 17:51	1
2,4,5-Trichlorophenol	ND		1.6	0.40	ug/L		09/09/21 15:07	09/10/21 17:51	1
2,4-Dinitrotoluene	ND		4.0	0.40	ug/L		09/09/21 15:07	09/10/21 17:51	1
Hexachlorobenzene	ND		2.4	0.16	ug/L		09/09/21 15:07	09/10/21 17:51	1
Pentachlorophenol	ND		40	2.0	ug/L		09/09/21 15:07	09/10/21 17:51	1
Pyridine	ND		40	4.2	ug/L		09/09/21 15:07	09/10/21 17:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*87*		*20 - 147*	*09/09/21 15:07*	*09/10/21 17:51*	*1*
Phenol-d5 (Surr)	*81*		*21 - 135*	*09/09/21 15:07*	*09/10/21 17:51*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*28 - 131*	*09/09/21 15:07*	*09/10/21 17:51*	*1*
Nitrobenzene-d5 (Surr)	*93*		*60 - 120*	*09/09/21 15:07*	*09/10/21 17:51*	*1*
2-Fluorobiphenyl	*94*		*63 - 120*	*09/09/21 15:07*	*09/10/21 17:51*	*1*
Terphenyl-d14 (Surr)	*124*	*S1+*	*66 - 120*	*09/09/21 15:07*	*09/10/21 17:51*	*1*

Lab Sample ID: LCS 580-367051/27-D
Matrix: Water
Analysis Batch: 367483

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 367375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	8.00	6.39		ug/L		80	46 - 120
2-Methylphenol	8.00	6.38		ug/L		80	49 - 120

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

Lab Sample ID: LCS 580-367051/27-D
Matrix: Water
Analysis Batch: 367483

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 367375

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
3 & 4 Methylphenol			8.00	5.64		ug/L		71	50 - 124		
Hexachloroethane			8.00	6.49		ug/L		81	38 - 120		
Nitrobenzene			8.00	6.28		ug/L		78	60 - 130		
Hexachlorobutadiene			8.00	6.70		ug/L		84	31 - 120		
2,4,6-Trichlorophenol			8.00	6.65		ug/L		83	64 - 121		
2,4,5-Trichlorophenol			8.00	7.30		ug/L		91	67 - 120		
2,4-Dinitrotoluene			8.00	6.46		ug/L		81	63 - 133		
Hexachlorobenzene			8.00	6.99		ug/L		87	60 - 120		
Pentachlorophenol			16.0	14.5	J	ug/L		91	39 - 147		
Pyridine			16.0	6.31	J	ug/L		39	20 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*84*		*20 - 147*
Phenol-d5 (Surr)	*76*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*103*		*28 - 131*
Nitrobenzene-d5 (Surr)	*90*		*60 - 120*
2-Fluorobiphenyl	*86*		*63 - 120*
Terphenyl-d14 (Surr)	*113*		*66 - 120*

Lab Sample ID: LCSD 580-367051/28-D
Matrix: Water
Analysis Batch: 367483

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 367375

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			8.00	6.34		ug/L		79	46 - 120	1	30
2-Methylphenol			8.00	6.52		ug/L		82	49 - 120	2	35
3 & 4 Methylphenol			8.00	5.62		ug/L		70	50 - 124	0	35
Hexachloroethane			8.00	6.43		ug/L		80	38 - 120	1	35
Nitrobenzene			8.00	6.14		ug/L		77	60 - 130	2	31
Hexachlorobutadiene			8.00	6.62		ug/L		83	31 - 120	1	28
2,4,6-Trichlorophenol			8.00	6.43		ug/L		80	64 - 121	3	26
2,4,5-Trichlorophenol			8.00	8.20		ug/L		102	67 - 120	12	26
2,4-Dinitrotoluene			8.00	6.56		ug/L		82	63 - 133	2	23
Hexachlorobenzene			8.00	7.12		ug/L		89	60 - 120	2	23
Pentachlorophenol			16.0	14.9	J	ug/L		93	39 - 147	3	23
Pyridine			16.0	5.86	J	ug/L		37	20 - 120	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*83*		*20 - 147*
Phenol-d5 (Surr)	*76*		*21 - 135*
2,4,6-Tribromophenol (Surr)	*104*		*28 - 131*
Nitrobenzene-d5 (Surr)	*90*		*60 - 120*
2-Fluorobiphenyl	*83*		*63 - 120*
Terphenyl-d14 (Surr)	*116*		*66 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-367051/25-C
Matrix: Water
Analysis Batch: 367368

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 367228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		09/08/21 12:51	09/09/21 11:02	1
Barium	ND		0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 11:02	1
Cadmium	ND		0.020	0.00020	mg/L		09/08/21 12:51	09/09/21 11:02	1
Chromium	ND		0.025	0.0013	mg/L		09/08/21 12:51	09/09/21 11:02	1
Copper	ND		0.060	0.0055	mg/L		09/08/21 12:51	09/09/21 11:02	1
Lead	ND		0.030	0.0027	mg/L		09/08/21 12:51	09/09/21 11:02	1
Molybdenum	ND		0.040	0.0012	mg/L		09/08/21 12:51	09/09/21 11:02	1
Nickel	0.00540	J	0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 11:02	1
Selenium	ND		0.10	0.0087	mg/L		09/08/21 12:51	09/09/21 11:02	1
Silver	ND		0.050	0.0085	mg/L		09/08/21 12:51	09/09/21 11:02	1
Zinc	ND		0.040	0.0093	mg/L		09/08/21 12:51	09/09/21 11:02	1

Lab Sample ID: MB 580-367051/26-C
Matrix: Water
Analysis Batch: 367368

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 367228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		09/08/21 12:51	09/09/21 11:05	1
Barium	ND		0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 11:05	1
Cadmium	ND		0.020	0.00020	mg/L		09/08/21 12:51	09/09/21 11:05	1
Chromium	ND		0.025	0.0013	mg/L		09/08/21 12:51	09/09/21 11:05	1
Copper	ND		0.060	0.0055	mg/L		09/08/21 12:51	09/09/21 11:05	1
Lead	ND		0.030	0.0027	mg/L		09/08/21 12:51	09/09/21 11:05	1
Molybdenum	ND		0.040	0.0012	mg/L		09/08/21 12:51	09/09/21 11:05	1
Nickel	ND		0.020	0.0010	mg/L		09/08/21 12:51	09/09/21 11:05	1
Selenium	ND		0.10	0.0087	mg/L		09/08/21 12:51	09/09/21 11:05	1
Silver	ND		0.050	0.0085	mg/L		09/08/21 12:51	09/09/21 11:05	1
Zinc	ND		0.040	0.0093	mg/L		09/08/21 12:51	09/09/21 11:05	1

Lab Sample ID: LCS 580-367051/27-C
Matrix: Water
Analysis Batch: 367368

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 367228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Copper	1.00	0.987		mg/L		99	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Silver	1.00	0.991		mg/L		99	80 - 120
Zinc	1.00	1.07		mg/L		107	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-367051/28-C
Matrix: Water
Analysis Batch: 367368

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 367228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			1.00	1.02		mg/L		102	80 - 120	0	20
Barium			1.00	1.01		mg/L		101	80 - 120	0	20
Cadmium			1.00	1.06		mg/L		106	80 - 120	0	20
Chromium			1.00	1.01		mg/L		101	80 - 120	0	20
Copper			1.00	0.984		mg/L		98	80 - 120	0	20
Lead			1.00	1.05		mg/L		105	80 - 120	0	20
Molybdenum			1.00	1.02		mg/L		102	80 - 120	0	20
Nickel			1.00	1.06		mg/L		106	80 - 120	0	20
Selenium			1.00	1.04		mg/L		104	80 - 120	0	20
Silver			1.00	0.984		mg/L		98	80 - 120	1	20
Zinc			1.00	1.07		mg/L		107	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-367051/25-B
Matrix: Water
Analysis Batch: 367306

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 367224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		09/08/21 12:46	09/08/21 17:26	1

Lab Sample ID: MB 580-367051/26-B
Matrix: Water
Analysis Batch: 367306

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 367224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		09/08/21 12:46	09/08/21 17:28	1

Lab Sample ID: LCS 580-367051/27-B
Matrix: Water
Analysis Batch: 367306

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 367224

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0200	0.0213		mg/L		106	80 - 120		

Lab Sample ID: LCSD 580-367051/28-B
Matrix: Water
Analysis Batch: 367306

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 367224

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.0200	0.0201		mg/L		100	80 - 120	6	20

QC Association Summary

Client: WE2 Support Services
Job ID: 180-126318-1
Project/Site: Dept of Energy- NETL - Albany, OR

GC/MS VOA

Leach Batch: 366796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	1311	
MB 580-366796/6-A	Method Blank	TCLP	Water	1311	
LCS 580-366796/7-A	Lab Control Sample	TCLP	Water	1311	
LCSD 580-366796/8-A	Lab Control Sample Dup	TCLP	Water	1311	

Analysis Batch: 367251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	8260D	366796
MB 580-366796/6-A	Method Blank	TCLP	Water	8260D	366796
LCS 580-366796/7-A	Lab Control Sample	TCLP	Water	8260D	366796
LCSD 580-366796/8-A	Lab Control Sample Dup	TCLP	Water	8260D	366796

GC/MS Semi VOA

Leach Batch: 367051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	1311	
MB 580-367051/25-D	Method Blank	TCLP	Water	1311	
LCS 580-367051/27-D	Lab Control Sample	TCLP	Water	1311	
LCSD 580-367051/28-D	Lab Control Sample Dup	TCLP	Water	1311	

Prep Batch: 367375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	3510C	367051
MB 580-367051/25-D	Method Blank	TCLP	Water	3510C	367051
LCS 580-367051/27-D	Lab Control Sample	TCLP	Water	3510C	367051
LCSD 580-367051/28-D	Lab Control Sample Dup	TCLP	Water	3510C	367051

Analysis Batch: 367483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	8270E	367375
MB 580-367051/25-D	Method Blank	TCLP	Water	8270E	367375
LCS 580-367051/27-D	Lab Control Sample	TCLP	Water	8270E	367375
LCSD 580-367051/28-D	Lab Control Sample Dup	TCLP	Water	8270E	367375

Metals

Leach Batch: 367051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	1311	
MB 580-367051/25-B	Method Blank	TCLP	Water	1311	
MB 580-367051/25-C	Method Blank	TCLP	Water	1311	
MB 580-367051/26-B	Method Blank	TCLP	Water	1311	
MB 580-367051/26-C	Method Blank	TCLP	Water	1311	
LCS 580-367051/27-B	Lab Control Sample	TCLP	Water	1311	
LCS 580-367051/27-C	Lab Control Sample	TCLP	Water	1311	
LCSD 580-367051/28-B	Lab Control Sample Dup	TCLP	Water	1311	
LCSD 580-367051/28-C	Lab Control Sample Dup	TCLP	Water	1311	

Prep Batch: 367224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	7470A	367051

Metals (Continued)

Prep Batch: 367224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-367051/25-B	Method Blank	TCLP	Water	7470A	367051
MB 580-367051/26-B	Method Blank	TCLP	Water	7470A	367051
LCS 580-367051/27-B	Lab Control Sample	TCLP	Water	7470A	367051
LCSD 580-367051/28-B	Lab Control Sample Dup	TCLP	Water	7470A	367051

Prep Batch: 367228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	3010A	367051
MB 580-367051/25-C	Method Blank	TCLP	Water	3010A	367051
MB 580-367051/26-C	Method Blank	TCLP	Water	3010A	367051
LCS 580-367051/27-C	Lab Control Sample	TCLP	Water	3010A	367051
LCSD 580-367051/28-C	Lab Control Sample Dup	TCLP	Water	3010A	367051

Analysis Batch: 367306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	7470A	367224
MB 580-367051/25-B	Method Blank	TCLP	Water	7470A	367224
MB 580-367051/26-B	Method Blank	TCLP	Water	7470A	367224
LCS 580-367051/27-B	Lab Control Sample	TCLP	Water	7470A	367224
LCSD 580-367051/28-B	Lab Control Sample Dup	TCLP	Water	7470A	367224

Analysis Batch: 367368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126318-1	TCLP-PURGE WATER	TCLP	Water	6010D	367228
MB 580-367051/25-C	Method Blank	TCLP	Water	6010D	367228
MB 580-367051/26-C	Method Blank	TCLP	Water	6010D	367228
LCS 580-367051/27-C	Lab Control Sample	TCLP	Water	6010D	367228
LCSD 580-367051/28-C	Lab Control Sample Dup	TCLP	Water	6010D	367228

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: DAVE HRENA	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 580-37451-9879.1
Client Contact: Jedediah Smith	Phone: 412-386-7497	E-Mail: jill.colussy@testamericainc.com		Page: Page 1 of 1
Company: USSE2 O&M Services, LLC				Job #:
Address: 3592 Collins Ferry Road Suite 130	Due Date Requested:			
City: Morgantown	TAT Requested (days):			
State, Zip: WV, 26505				
Phone: 304-440-4500(Tel)	PO #: SOS30042			
Email: jedediah.smith@netl.doe.gov	WO #:			
Project Name: Dept of Energy- NETL - Albany, OR	Project #: 58008376			
Site: ALBANY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - Standard List Volatile Organics (TCLP RCRA)	8270D TCLP BNA	TCLP METALS (6010C, 7470A TCLP)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	D	X	
TCLP - PURGE WATER	08/27/21	0820	G	Water	N	N	3	2	1	6	SAMPLE HELD ON ICE!
				Water							6010C (As, Ba, Cd, Cr, Pb
				Water							Se, Ag, Ni, Zn, Cu,
				Water							MOLYBDENUM)
				Water							7470A (MERCURY)
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

180-126318 Chain of Custody

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	David Hrena	08/27/21 1050	AMENTUM		8/27/21 1056	EFGS
2		8/27/21 1700	EFGS		8/28/21 0945	EFGS
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.9

IR9-3.6/.21.

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-126318-1

Login Number: 126318
List Number: 2
Creator: Presley, Kim A

List Source: Eurofins FGS, Seattle
List Creation: 08/30/21 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR9=-1.0c/-1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 180-126318-1

Login Number: 126318
List Number: 3
Creator: Vallelunga, Diana L

List Source: Eurofins FGS, Seattle
List Creation: 08/31/21 11:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C.
Groundwater Analytical Results

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
MW-3	MW-3	8/23/21	0.18 U	0.39U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-4	MW-4	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-5	MW-5	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-6	MW-6	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-7	MW-7	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-8	MW-8	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-9	MW-9	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-10	MW-10	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-11	MW-11	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-13	MW-13	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-14	MW-14	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-15	MW-15	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-16	MW-16	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-17	MW-17	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-18	MW-18	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-19	MW-19	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-20	MW-20	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-20DUP	MW-20	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-22	MW-22	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-23	MW-23	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-24	MW-24	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-25	MW-25	8/24/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-26	MW-26	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-27	MW-27	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-28	MW-28	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-28DUP	MW-28	8/26/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-29	MW-29	8/23/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-30	MW-30	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-31	MW-31	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-100	MW-100	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-101	MW-101	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-102	MW-102	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U
MW-103	MW-103	8/25/21	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28U	0.29 U	0.43U	0.41 U	0.33 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered in data validation
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	4-Isopropyltoluene	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene
MW-3	MW-3	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-4	MW-4	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30U	0.44 U
MW-5	MW-5	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-6	MW-6	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-7	MW-7	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-8	MW-8	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-9	MW-9	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-10	MW-10	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-11	MW-11	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-13	MW-13	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-14	MW-14	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30U	0.44 U
MW-15	MW-15	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**9.9 HJ**	0.44 U
MW-16	MW-16	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-17	MW-17	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**0.62J**	0.44 U
MW-18	MW-18	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**140 HJ**	0.44 U
MW-19	MW-19	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-20	MW-20	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**1700 H**	0.44 U
MW-20DUP	MW-20	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**1700 H**	0.44 U
MW-22	MW-22	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**14**	0.44 U
MW-23	MW-23	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**0.42J**	0.44 U
MW-24	MW-24	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**250**	0.44 U
MW-25	MW-25	8/24/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-26	MW-26	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-27	MW-27	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**32 HJ**	0.44 U
MW-28	MW-28	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-28DUP	MW-28	8/26/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-29	MW-29	8/23/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-30	MW-30	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-31	MW-31	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-100	MW-100	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	**1.0**	0.44 U
MW-101	MW-101	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-102	MW-102	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.46U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U
MW-103	MW-103	8/25/21	0.61 U	0.57U	0.46 U	0.42U	0.18 U	0.55 U	0.48U	0.35 U	0.98 U	0.32 U	0.51 U	0.38U	0.28 U	0.24U	0.43 U	0.51U	0.21U	0.30 U	0.44 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Chlorobromomethane	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
MW-3	MW-3	8/23/21	0.29U	0.43U	0.35U	**0.30J**	0.28U	0.35U	0.20 U
MW-4	MW-4	8/23/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-5	MW-5	8/25/21	0.29 U	0.43U	0.35U	**1.8**	0.28U	0.35U	0.20 U
MW-6	MW-6	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	**0.69J**	0.20 U
MW-7	MW-7	8/26/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-8	MW-8	8/24/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-9	MW-9	8/24/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-10	MW-10	8/24/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-11	MW-11	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-13	MW-13	8/23/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-14	MW-14	8/23/21	0.29 U	0.43U	0.35U	**11**	0.28U	0.35U	0.20 U
MW-15	MW-15	8/26/21	0.29 U	0.43U	0.35U	**0.99J**	0.28U	0.35U	0.20 U
MW-16	MW-16	8/26/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-17	MW-17	8/23/21	0.29 U	0.43U	0.35U	**0.46J**	0.28U	**1.5**	0.20 U
MW-18	MW-18	8/26/21	0.29 U	0.43U	0.35U	**18 J**	0.28U	0.35U	0.20 U
MW-19	MW-19	8/24/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-20	MW-20	8/24/21	0.29 U	0.43U	0.35U	**160 H**	0.28U	**0.57J**	0.20 U
MW-20DUP	MW-20	8/24/21	0.29 U	0.43U	0.35U	**160 H**	0.28U	**0.56J**	0.20 U
MW-22	MW-22	8/24/21	0.29 U	0.43U	0.35U	**2.5**	0.28U	**2.2**	0.20 U
MW-23	MW-23	8/23/21	0.29 U	0.43U	0.35U	**1.7**	0.28U	0.35U	0.20 U
MW-24	MW-24	8/25/21	0.29 U	0.43U	0.35U	**23**	0.28U	0.35U	0.20 U
MW-25	MW-25	8/24/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-26	MW-26	8/23/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-27	MW-27	8/26/21	0.29 U	0.43U	0.35U	**2.4 J**	0.28U	0.35U	0.20 U
MW-28	MW-28	8/26/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-28DUP	MW-28	8/26/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-29	MW-29	8/23/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-30	MW-30	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	**5.8**	0.20 U
MW-31	MW-31	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-100	MW-100	8/25/21	0.29 U	0.43U	0.35U	**0.40J**	0.28U	**0.54J**	0.20 U
MW-101	MW-101	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-102	MW-102	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U
MW-103	MW-103	8/25/21	0.29 U	0.43U	0.35U	0.26U	0.28U	0.35U	0.20 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene
MW-3	MW-3	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44 U	1.4 U	0.93 U	0.44 U
MW-4	MW-4	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-5	MW-5	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-6	MW-6	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-7	MW-7	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-8	MW-8	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-9	MW-9	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-10	MW-10	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-11	MW-11	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-13	MW-13	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-14	MW-14	8/23/21	0.34 U	**0.47J**	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-15	MW-15	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-16	MW-16	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-17	MW-17	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-18	MW-18	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-19	MW-19	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-20	MW-20	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-20DUP	MW-20	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-22	MW-22	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-23	MW-23	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-24	MW-24	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-25	MW-25	8/24/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-26	MW-26	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-27	MW-27	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-28	MW-28	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-28DUP	MW-28	8/26/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-29	MW-29	8/23/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-30	MW-30	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-31	MW-31	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-100	MW-100	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-101	MW-101	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-102	MW-102	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U
MW-103	MW-103	8/25/21	0.34 U	0.29U	0.53U	0.50 U	0.40 U	0.79 U	0.44U	0.53U	0.44U	1.4 U	0.93 U	0.44 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 43
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl chloride
MW-3	MW-3	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**0.60J**	0.36U	0.22 U
MW-4	MW-4	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-5	MW-5	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-6	MW-6	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-7	MW-7	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-8	MW-8	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-9	MW-9	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-10	MW-10	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-11	MW-11	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-13	MW-13	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-14	MW-14	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-15	MW-15	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**130 J**	0.36U	0.22 U
MW-16	MW-16	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-17	MW-17	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**44**	0.36U	0.22 U
MW-18	MW-18	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	**9.3 HJ**	0.39 U	0.39 U	0.41U	**94 J**	0.36U	0.22 U
MW-19	MW-19	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-20	MW-20	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	**8.1**	0.39 U	0.39 U	0.41U	**190 H**	0.36U	0.22 U
MW-20DUP	MW-20	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	**8.6**	0.39 U	0.39 U	0.41U	**200 H**	0.36U	0.22 U
MW-22	MW-22	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.93 J	**1.1**	0.39 U	0.39 U	0.41U	**7.8**	0.36U	0.22 U
MW-23	MW-23	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**0.31J**	0.36U	0.22 U
MW-24	MW-24	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	**0.78J**	0.39 U	0.39 U	0.41U	**88**	0.36U	0.22 U
MW-25	MW-25	8/24/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-26	MW-26	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-27	MW-27	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**0.59J**	0.36U	0.22 U
MW-28	MW-28	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-28DUP	MW-28	8/26/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-29	MW-29	8/23/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-30	MW-30	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	**0.53 J**	0.41U	0.26U	0.36U	0.22 U
MW-31	MW-31	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	0.26U	0.36U	0.22 U
MW-100	MW-100	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**80**	0.36U	0.22 U
MW-101	MW-101	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**1.8**	0.36U	0.22 U
MW-102	MW-102	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**6.5**	0.36U	0.22 U
MW-103	MW-103	8/25/21	0.50 U	0.39 U	0.49 U	0.53U	0.58 U	0.41 U	0.39 U	0.39 U	0.41U	**0.57J**	0.36U	0.22 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value
J = Analyte concentration is an estimate. Analyte was detected below Method
J = If detection is above the Reporting Limit, there is a QC problem encountered i
E = Result exceeded calibration range.
H = Sample was analyzed past 14 day holding time

Bold indicates analyte was detected above the Method Detection Limit

Appendix D.
Data Validation Memo

Data Review

The data quality review of the thirty-one primary groundwater samples and two field duplicate groundwater samples collected between August 23 - 26, 2021 at the U.S. Department of Energy (DOE) National Technology Laboratory (NETL) in Albany, Oregon has been completed. All samples were submitted to Eurofins TestAmerica (ETA) Laboratories, Inc. of Tacoma, Washington where they were analyzed for volatile organic compounds (VOCs) by EPA Method 8260C. Fourteen groundwater samples were also analyzed for twenty-three metals by EPA Methods 200.7 Rev 4.4 and 200.8.

The review included the analytical data presented in ETA report 180-126312-1. The data were reviewed based on *National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014; *National Functional Guidelines for Superfund Inorganic Methods Data Review*, September 2016; and Laboratory quality control criteria.

The following criteria were evaluated during the review:

- Chain of Custody Records – Acceptable, laboratory login matches the chain of custody.
- Custody Seals - Present on coolers, intact when samples delivered to lab.
- Container Integrity – Acceptable, all sample containers were received intact by the lab.
- Sample Temperature – Acceptable, received at 1.0 º C on ice.
- Trip Blank – The trip blank analyses were non-detect.
- Method Blanks – Arsenic, Antimony, Barium, and Thallium were detected in three batches above the Method Detection Limit (MDL) but below the Reporting Limit (RL):

Analyte	Result in mg/L	Reporting Limit	MDL	Batch	Wells
Arsenic	0.000730 J	0.001	0.0002	580-366901	LCS only
Barium	0.000824 J	0.0012	0.00021	580-366901	LCS only
Thallium	0.0000420 J	0.001	0.000029	580-366901	LCS only
Antimony	0.000153 J	0.0008	0.00013	580-367059	MW-15, 16, 18, 24
Antimony	0.000140 J	0.0008	0.00013	580-367059	MW-15, 16, 18, 24
Thallium	0.0000330 J	0.001	0.000029	580-367059	MW-15, 16, 18, 24
Arsenic	0.000282 J	0.001	0.0002	580-367053	MW-3, 4, 6, 13, 14, 17, 20, 22
Antimony	0.000146 J	0.0008	0.00013	580-367053	MS only

Results for these analytes in these batches were:

Well	Arsenic in mg/L	Antimony in mg/L	Thallium in mg/L	Batch
MW-15	--	0.00013 U	--	580-367059
MW-16	--	0.00013 J	--	580-367059
MW-18	--	0.00013 U	--	580-367059
MW-24	--	0.00013 U	--	580-367059
Method Blank	--	0.000153 J	0.000033 J	580-367059
MW-13	0.0038	--	--	580-367053
MW-14	0.0012	--	0.000029 J	580-367053
MW-17	0.0021	--	--	580-367053
MW-19	0.00060	--	--	580-367053
MW-20	0.0027	--	--	580-367053
MW-20	0.0018	--	--	580-367053
MW-22	0.0018	--	--	580-367053
MW-23	0.0011	--	--	580-367053
MW-3	0.00063	--	--	580-367053
MW-4	0.0025	--	--	580-367053
MW-6	0.0017	--	--	580-367053
Method Blank	0.000282 J	--	--	580-367053

J = estimated, above the Method Detection Limit but below the Reporting Limit

Method blank detection in batch 580-366901 affects Lab Control Samples only.

Method blank detection of Antimony in batch 580-367053 affects the Matrix Spike only.

The result for Antimony in MW-16 are invalid, as they are virtually identical to those in the method blank.

There is no effect on the sample results for Arsenic in Batch 580-367053 due to the very low concentrations in the method blank compared to the sample results that are much higher.

There is no effect on the sample results for Thallium in Batch 580-367059 since it was not detected.

All other method blank analyses were non-detect.

- Surrogate Recoveries – Recoveries for 4-Bromofluorobenzene and Dibromofluoromethane were high in the sample for MW-13. This does not affect the sample results. All other surrogate recoveries were within acceptance criteria.

- Matrix Spikes – The matrix spike recovery of Carbon Tetrachloride in Batch 580-367251 was slightly low. The data from this batch is valid as reported.

  The matrix spike recoveries were low in Batch 580-367311 for most analytes. Most of the recoveries were more than 20% and as much as 45% below the lower recovery limit. Matrix spike duplicate recoveries were better for some analytes, but not all. Six wells are associated with this batch, MW-7, MW-15, MW-16, MW-18, MW-27, and MW-28. For all analytes in this batch where the percent recovery was more than 20% low the data should be labelled UJ for non-detects and J for detects. Not all analytes were reported from Batch 580-367311. Twelve to fourteen, depending on the sample, were missing. They were reported in Batch 580-367451, which was analyzed a day later.

  Batch 580-367451, consisting of the analytes missing from batch 580-367311, was analyzed one day past the 14-day hold time due to instrument issues.

  Matrix spike recoveries in Batch 580-367451 ranged from 56% to 70% below the lower recovery limit. A matrix spike was not reported in Batch 580-367451 for Carbon Tetrachloride. All samples in Batch 580-367451 should be labelled J for estimated.

  Matrix spikes for all other batches were within recovery limits.

Sample	Batch	Batch 580-367451 Matrix Spike							Associated Sample Results					
		Analyte	MS % Rec.	MSD % Rec	MS % Low	MSD % Low	Lower Rec Limit	Upper Rec Limit	MW-7	MW-15	MW-16	MW-18	MW-27	MW-28
MW28-082621	580-367311	1,1,1,2-Tetrachloroethane	56	65	***29.1***	17.7	79	120	0.18 U *+ *1	0.18 U *+ *1	0.18 U *+ *1	0.18 U *+ *1	0.18 U *+ *1	0.18 U F1 *+ *1
MW28-082621	580-367311	1,1,1-Trichloroethane	59	70	***20.3***	5.4	74	130	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U F1 *1
MW28-082621	580-367311	1,1,2-Trichloroethane	52	62	***35.0***	***22.5***	80	121	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U F2 F1 *1
MW28-082621	580-367311	1,1-Dichloroethene	62	75	11.4		70	129	0.28 U *1	0.28 U *1	0.28 U *1	0.28 U *1	0.28 U *1	0.28 U F1 *1
MW28-082621	580-367311	1,1-Dichloropropene	58	69	***21.6***	6.8	74	120	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U F2 F1 *1
MW28-082621	580-367311	1,2,3-Trichlorobenzene	39	42	***40.0***	***35.4***	65	150	0.43 U *1	0.43 U *1	0.43 U *1	0.43 U *1	0.43 U *1	0.43 U F1 *1
MW28-082621	580-367311	1,2,3-Trichloropropane	41	48	***46.1***	***36.8***	76	124	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U F1
MW28-082621	580-367311	1,2,4-Trichlorobenzene	55	55	9.8	9.8	61	148	0.33 U *+ *1	0.33 U *+ *1	0.33 U *+ *1	0.33 U *+ *1	0.33 U *+ *1	0.33 U F1 *+ *1
MW28-082621	580-367311	1,2-Dibromo-3-Chloropropane	39	45	***40.0***	***30.8***	65	133	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U F1
MW28-082621	580-367311	1,2-Dichlorobenzene	47	57	***41.3***	***28.8***	80	120	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U F2 F1 *1
MW28-082621	580-367311	1,2-Dichloroethane	49	58	***29.0***	15.9	69	126	0.42 U *1	0.42 U *1	0.42 U *1	0.42 U *1	0.42 U *1	0.42 U F2 F1 *1
MW28-082621	580-367311	1,3-Dichlorobenzene	59	67	***23.4***	13.0	77	127	0.48 U *+	0.48 U *+	0.48 U *+	0.48 U *+	0.48 U *+	0.48 U F1 *+
MW28-082621	580-367311	1,3-Dichloropropane	46	55	***41.8***	***30.4***	79	120	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U F1 *1
MW28-082621	580-367311	1,4-Dichlorobenzene	44	58	***45.0***	***27.5***	80	120	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U *1	0.46 U F2 F1 *1
MW28-082621	580-367311	2,2-Dichloropropane	60	70	9.1		66	126	0.32 U *1	0.32 U *1	0.32 U *1	0.32 U *1	0.32 U *1	0.32 U F1 *1
MW28-082621	580-367311	4-Chlorotoluene	42	54	***42.5***	***26.0***	73	129	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U F1
MW28-082621	580-367311	Benzene	56	65	***30.0***	18.8	80	122	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U *1	0.24 U F1 *1
MW28-082621	580-367311	Bromoform	68	74			56	139	0.51 U *+ *1	0.51 U *+ *1	0.51 U *+ *1	0.51 U *+ *1	0.51 U *+ *1	0.51 U *+ *1
MW28-082621	580-367311	Bromomethane	54	62			36	150	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
MW28-082621	580-367311	**Carbon tetrachloride**	68	81	5.6		72	129	0.3 U *+ *1	***Not Reported***	0.3 U *+ *1	***Not Reported***	***Not Reported***	0.3 U F1 *+ *1
MW28-082621	580-367311	Chlorobenzene	54	66	***32.5***	17.5	80	120	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U F2 F1 *1
MW28-082621	580-367311	Chlorobromomethane	53	63	***32.1***	19.2	78	120	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U F2 F1 *1
MW28-082621	580-367311	Chlorodibromomethane	57	67	***21.9***	8.2	73	125	0.43 U *+ *1	0.43 U *+ *1	0.43 U *+ *1	0.43 U *+ *1	0.43 U *+ *1	0.43 U F2 F1 *+ *1
MW28-082621	580-367311	Chloroethane	50	56			38	150	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
MW28-082621	580-367311	**Chloroform**	55	66	***29.5***	15.4	78	127	0.26 U *1	**0.99 J *1**	0.26 U *1	**18 *1**	**2.4 *1**	0.26 U F2 F1 *1
MW28-082621	580-367311	Chloromethane	62	71			25	150	0.28 U *+	0.28 U *+	0.28 U *+	0.28 U *+	0.28 U *+	0.28 U *+
MW28-082621	580-367311	**cis-1,2-Dichloroethene**	52	66	***31.6***	13.2	76	120	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U *1	0.35 U F2 F1 *1
MW28-082621	580-367311	Dibromomethane	55	64	***31.3***	20.0	80	120	0.34 U *1	0.34 U *1	0.34 U *1	0.34 U *1	0.34 U *1	0.34 U F2 F1 *1

Sample	Batch	Batch 580-367451 Matrix Spike							Associated Sample Results					
		Analyte	MS % Rec.	MSD % Rec	MS % Low	MSD % Low	Lower Rec Limit	Upper Rec Limit	MW-7	MW-15	MW-16	MW-18	MW-27	MW-28
MW28-082621	580-367311	Dichlorobromomethane	54	65	***28.0***	13.3	75	124	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U *1	0.29 U F2 F1 *1
MW28-082621	580-367311	Dichlorodifluoromethane	109	118			20	150	0.53 U *+	0.53 U *+	0.53 U *+	0.53 U *+	0.53 U *+	0.53 U *+
MW28-082621	580-367311	Ethylbenzene	51	61	***36.3***	***23.8***	80	120	0.5 U *1	0.5 U *1	0.5 U *1	0.5 U *1	0.5 U *1	0.5 U F2 F1 *1
MW28-082621	580-367311	Ethylene Dibromide	53	61	***32.9***	***22.8***	79	126	0.4 U *1	0.4 U *1	0.4 U *1	0.4 U *1	0.4 U *1	0.4 U F2 F1 *1
MW28-082621	580-367311	Hexachlorobutadiene	47	54	***36.5***	***27.0***	74	131	0.79 U *+ *1	0.79 U *+ *1	0.79 U *+ *1	0.79 U *+ *1	0.79 U *+ *1	0.79 U F1 *+ *1
MW28-082621	580-367311	Isopropylbenzene	51	60	***36.3***	***25.0***	80	123	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U F1 *1
MW28-082621	580-367311	Methyl tert-butyl ether	44	50	***38.9***	***30.6***	72	120	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U F1 *1
MW28-082621	580-367311	Methylene Chloride	53	64	***31.2***	16.9	77	125	1.4 U *1	1.4 U *1	1.4 U *1	1.4 U *1	1.4 U *1	1.4 U F2 F1 *1
MW28-082621	580-367311	m-Xylene & p-Xylene	51	59	***36.3***	***26.3***	80	120	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U F2 F1 *1
MW28-082621	580-367311	Naphthalene	35	39	***44.4***	***38.1***	63	150	0.93 U *1	0.93 U *1	0.93 U *1	0.93 U *1	0.93 U *1	0.93 U F1 *1
MW28-082621	580-367311	n-Butylbenzene	44	55	***22.8***	3.5	57	133	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U *1	0.44 U F2 F1 *1
MW28-082621	580-367311	o-Xylene	49	58	***38.8***	***27.5***	80	120	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U F2 F1 *1
MW28-082621	580-367311	Styrene	49	59	***35.5***	***22.4***	76	122	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U *1	0.53 U F2 F1 *1
MW28-082621	580-367311	**Tetrachloroethene**	63	75	17.1	1.3	76	125	0.41 U *1	0.41 U *1	0.41 U *1	***Not Reported***	0.41 U *1	0.41 U F2 F1 *1
MW28-082621	580-367311	Toluene	54	65	***32.5***	18.8	80	120	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U F2 F1 *1
MW28-082621	580-367311	trans-1,2-Dichloroethene	55	68	***26.7***	9.3	75	120	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U *1	0.39 U F1 *1
MW28-082621	580-367311	trans-1,3-Dichloropropene	47	54	***38.2***	***28.9***	76	122	0.41 U *1	0.41 U *1	0.41 U *1	0.41 U *1	0.41 U *1	0.41 U F1 *1
MW28-082621	580-367311	**Trichloroethene**	61	74	***23.8***	7.5	80	125	0.26 U *1	**130 *1**	0.26 U *1	**94 *1**	**0.59 J *1**	0.26 U F2 F1 *1
MW28-082621	580-367311	Trichlorofluoromethane	63	68			45	148	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
MW28-082621	580-367311	Vinyl chloride	56	67			31	150	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U

Sample	Batch	Batch 580-367451 Matrix Spike							Associated Sample Results					
		Analyte	MS % Rec	MSD % Rec	MS % Low	MSD % Low	Lower Rec Limit	Upper Rec Limit	MW-7	MW-15	MW-16	MW-18	MW-27	MW-28
MW28-082621	580-367451	1,1,2,2-Tetrachloroethane	23	22	***68.9%***	***70.3%***	74	124	0.52 U H	0.52 U H	0.52 U H	0.52 U H	0.52 U H	0.22 U H F1
MW28-082621	580-367451	1,1-Dichloroethane	35	36	***56.3%***	***55.0%***	80	120	0.22 U H	0.22 U H	0.22 U H	0.22 U H	0.22 U H	0.22 U H F1
MW28-082621	580-367451	1,2,4-Trimethylbenzene	30	31	***62.5%***	***61.3%***	80	120	0.61 U H	0.61 U H	0.61 U H	0.61 U H	0.61 U H	0.22 U H F1
MW28-082621	580-367451	1,2-Dichloropropane	35	34	***56.3%***	***57.5%***	80	120	0.18 U H	0.18 U H	0.18 U H	0.18 U H	0.18 U H	0.22 U H F1
MW28-082621	580-367451	1,3,5-Trimethylbenzene	29	29	***63.8%***	***63.8%***	80	122	0.55 U H	0.55 U H	0.55 U H	0.55 U H	0.55 U H	0.22 U H F1
MW28-082621	580-367451	2-Chlorotoluene	30	30	***62.5%***	***62.5%***	80	120	0.51 U H	0.51 U H	0.51 U H	0.51 U H	0.51 U H	0.22 U H F1
MW28-082621	580-367451	4-Isopropyltoluene	29	29	***62.3%***	***62.3%***	77	126	0.28 U H	0.28 U H	0.28 U H	0.28 U H	0.28 U H	0.22 U H F1
MW28-082621	580-367451	Bromobenzene	31	31	***61.3%***	***61.3%***	80	120	0.43 U H	0.43 U H	0.43 U H	0.43 U H	0.43 U H	0.22 U H F1
	580-367451	Carbon tetrachloride	***Not Reported***	***Not Reported***	***Not Reported***	***Not Reported***	72	129	***Not Reported***	**9.9 H**	***Not Reported***	**140 H**	**32 H**	***Not Reported***
MW28-082621	580-367451	cis-1,3-Dichloropropene	28	27	***63.6%***	***64.9%***	77	120	0.2 U H	0.2 U H	0.2 U H	0.2 U H	0.2 U H	0.22 U H F1
MW28-082621	580-367451	N-Propylbenzene	32	30	***60.0%***	***62.5%***	80	122	0.5 U H	0.5 U H	0.5 U H	0.5 U H	0.5 U H	0.22 U H F1
MW28-082621	580-367451	sec-Butylbenzene	31	31	***60.3%***	***60.3%***	78	122	0.49 U H	0.49 U H	0.49 U H	0.49 U H	0.49 U H	0.22 U H F1
MW28-082621	580-367451	tert-Butylbenzene	30	30	***60.0%***	***60.0%***	75	123	0.58 U H	0.58 U H	0.58 U H	0.58 U H	0.58 U H	0.22 U H F1

- Field Duplicate – Results from samples MW-28 and MW-28 Duplicate were non-detect for all Method 8260C volatile organics.

- Field Duplicate – Results for volatile organics from samples MW-20 and MW-20 Duplicate are excellent, with very little difference in the detected analytes. Relative percent differences range from 0 to 6 %.

  All duplicate results for metals analyses were within standards. Where both sample results were 5 x the MDL, the % RPD was less than 20 %.

Analyte	Field Sample		Field Duplicate		MDL	Units
	Result	Qualifier	Result	Qualifier		
1,1,1,2-Tetrachloroethane	0.18	U	0.18	U	0.18	ug/L
1,1,1-Trichloroethane	0.39	U	0.39	U	0.39	ug/L
1,1,2,2-Tetrachloroethane	0.52	U	0.52	U	0.52	ug/L
1,1,2-Trichloroethane	0.24	U	0.24	U	0.24	ug/L
1,1-Dichloroethane	0.22	U	0.22	U	0.22	ug/L
1,1-Dichloroethene	0.28	U	0.28	U	0.28	ug/L
1,1-Dichloropropene	0.29	U F1	0.29	U	0.29	ug/L
1,2,3-Trichlorobenzene	0.43	U	0.43	U	0.43	ug/L
1,2,3-Trichloropropane	0.41	U	0.41	U	0.41	ug/L
1,2,4-Trichlorobenzene	0.33	U	0.33	U	0.33	ug/L
1,2,4-Trimethylbenzene	0.61	U	0.61	U	0.61	ug/L
1,2-Dibromo-3-Chloropropane	0.57	U	0.57	U	0.57	ug/L
1,2-Dichlorobenzene	0.46	U	0.46	U	0.46	ug/L
1,2-Dichloroethane	0.42	U	0.42	U	0.42	ug/L
1,2-Dichloropropane	0.18	U	0.18	U	0.18	ug/L
1,3,5-Trimethylbenzene	0.55	U	0.55	U	0.55	ug/L
1,3-Dichlorobenzene	0.48	U	0.48	U	0.48	ug/L
1,3-Dichloropropane	0.35	U	0.35	U	0.35	ug/L
1,4-Dichlorobenzene	0.46	U	0.46	U	0.46	ug/L
2,2-Dichloropropane	0.32	U	0.32	U	0.32	ug/L
2-Chlorotoluene	0.51	U	0.51	U	0.51	ug/L
4-Chlorotoluene	0.38	U	0.38	U	0.38	ug/L
4-Isopropyltoluene	0.28	U	0.28	U	0.28	ug/L
Benzene	0.24	U	0.24	U	0.24	ug/L
Bromobenzene	0.43	U	0.43	U	0.43	ug/L
Bromoform	0.51	U *+ F1	0.51	U *+	0.51	ug/L
Bromomethane	0.21	U *+	0.21	U *+	0.21	ug/L
Carbon tetrachloride	**1700**	**H F1**	**1700**	**H**	15	ug/L
Chlorobenzene	0.44	U	0.44	U	0.44	ug/L
Chlorobromomethane	0.29	U	0.29	U	0.29	ug/L
Chlorodibromomethane	0.43	U	0.43	U	0.43	ug/L
Chloroethane	0.35	U *+	0.35	U *+	0.35	ug/L

Analyte	Field Sample		Field Duplicate		MDL	Units
	Result	Qualifier	Result	Qualifier		
Chloroform	**160**	**H**	**160**	**H**	13	ug/L
Chloromethane	0.28	U *+ F1	0.28	U *+	0.28	ug/L
cis-1,2-Dichloroethene	**0.57**	**J**	**0.56**	**J**	0.35	ug/L
cis-1,3-Dichloropropene	0.2	U	0.2	U	0.2	ug/L
Dibromomethane	0.34	U	0.34	U	0.34	ug/L
Dichlorobromomethane	0.29	U	0.29	U	0.29	ug/L
Dichlorodifluoromethane	0.53	U *+ F1	0.53	U *+	0.53	ug/L
Ethylbenzene	0.5	U	0.5	U	0.5	ug/L
Ethylene Dibromide	0.4	U	0.4	U	0.4	ug/L
Hexachlorobutadiene	0.79	U	0.79	U	0.79	ug/L
Isopropylbenzene	0.44	U	0.44	U	0.44	ug/L
Methyl tert-butyl ether	0.44	U	0.44	U	0.44	ug/L
Methylene Chloride	1.4	U	1.4	U	1.4	ug/L
m-Xylene & p-Xylene	0.53	U	0.53	U	0.53	ug/L
Naphthalene	0.93	U	0.93	U	0.93	ug/L
n-Butylbenzene	0.44	U	0.44	U	0.44	ug/L
N-Propylbenzene	0.5	U	0.5	U	0.5	ug/L
o-Xylene	0.39	U	0.39	U	0.39	ug/L
sec-Butylbenzene	0.49	U	0.49	U	0.49	ug/L
Styrene	0.53	U	0.53	U	0.53	ug/L
tert-Butylbenzene	0.58	U	0.58	U	0.58	ug/L
Tetrachloroethene	**8.1**	**F1**	**8.6**		0.41	ug/L
Toluene	0.39	U	0.39	U	0.39	ug/L
trans-1,2-Dichloroethene	0.39	U	0.39	U	0.39	ug/L
trans-1,3-Dichloropropene	0.41	U	0.41	U	0.41	ug/L
Trichloroethene	**190**	**H *1**	**200**	**H *1**	13	ug/L
Trichlorofluoromethane	0.36	U	0.36	U	0.36	ug/L
Vinyl chloride	0.22	U *+ F1	0.22	U *+	0.22	ug/L
Aluminum	**0.13**	J	**0.18**	J	0.042	mg/L
Antimony	**0.00015**	J B	0.00013	U	0.00013	mg/L
Arsenic	**0.0027**	B	**0.0018**	B	0.0002	mg/L
Barium	**0.021**		**0.017**		0.00021	mg/L
Beryllium	0.00011	U	0.00011	U	0.00011	mg/L
Cadmium	0.000037	U	0.000037	U	0.000037	mg/L
Calcium	**32**		**31**		0.034	mg/L
Chromium	**0.00079**	J	**0.00092**		0.00017	mg/L
Cobalt	**0.00083**		**0.00066**		0.000039	mg/L
Copper	**0.00078**	J	0.0006	U	0.0006	mg/L
Iron	**0.19**	J	**0.24**	J	0.061	mg/L
Lead	**0.000079**	J	0.00004	U	0.00004	mg/L
Magnesium	**15**		**15**		0.047	mg/L

Analyte	Field Sample		Field Duplicate		MDL	Units
	Result	Qualifier	Result	Qualifier		
Manganese	**1.2**		**0.96**		0.00046	mg/L
Mercury	0.00015	U	0.00015	U	0.00015	mg/L
Nickel	**0.0031**		**0.0031**		0.00013	mg/L
Potassium	**0.87**	J	**0.74**	J	0.17	mg/L
Silver	0.000025	U	0.000025	U	0.000025	mg/L
Sodium	**21**		**20**		0.086	mg/L
Thallium	0.000029	U	0.000029	U	0.000029	mg/L
Vanadium	**0.012**		**0.012**		0.00046	mg/L
Zinc	**0.0051**	J	**0.0035**	J	0.00093	mg/L

- Holding Times – Samples from 2 batches were analyzed past 14-day holding time. From the lab report:

  "Due to the concentration of target compounds detected, samples MW20-082421 (180-126312-14), MW20-082421 (180-126312-14[MS]), MW20-082421 (180-126312-14[MSD]) and MW20-082421-DUPLICATE (180-126312-15) were analyzed at a dilution. Elevated reporting limits (RLs) are provided. These dilutions were done outside of the holding time due to instrument issues. The results are flagged with an H qualifier.

  Samples MW28-082621 (180-126312-27), MW28-082621 (180-126312-27[MS]), MW28-082621 (180-126312-27[MSD]), MW28-082621 DUPLICATE (180-126312-28), MW18-082621 (180-126312-29), MW27-082621 (180-126312-30), MW15-082621 (180-126312-31), MW16-082621 (180-126312-32), MW-7-082621 (180-126312-33) and TRIP BLANK (180-126312-34) were re-analyzed outside of the holding time due to low recoveries in the laboratory control standards. The results are flagged with an "H" qualifier."

  Detections within these two batches are as follows:

Batch	Sample	QC Type	Analyte	Sample Date	Analysis Date	Result	Qualifier
580-367451	MW-15	Field Sample	Carbon tetrachloride	8/26/2021	9/10/2021	9.9	H J
580-367451	MW-18	Field Sample	Carbon tetrachloride	8/26/2021	9/10/2021	140	H J
580-367451	MW-18	Field Sample	Tetrachloroethene	8/26/2021	9/10/2021	9.3	H J
580-367451	MW-27	Field Sample	Carbon tetrachloride	8/26/2021	9/10/2021	32	H J
580-367251	MW-20	Field Sample	Carbon tetrachloride	8/24/2021	9/9/2021	1700	H F1
580-367251	MW-20	Field Duplicate	Carbon tetrachloride	8/24/2021	9/9/2021	1700	H
580-367251	MW-20	Field Sample	Chloroform	8/24/2021	9/9/2021	160	H
580-367251	MW-20	Field Duplicate	Chloroform	8/24/2021	9/9/2021	160	H
580-367251	MW-20	Field Sample	Trichloroethene	8/24/2021	9/9/2021	190	H *1
580-367251	MW-20	Field Duplicate	Trichloroethene	8/24/2021	9/9/2021	200	H *1

Summary

The results are valid as reported with the additional changes noted under Matrix Spikes and Holding Times above:

For all analytes in Batch 580-367311 where the Matrix Spike percent recovery was more than 20% low the data was labelled UJ for non-detects and J for detects.

All samples in Batch 580-367451 were labelled J for estimated.

All samples in Batch 580-367451 were analyzed 15+ days after sampling. They are labelled H.

References

EPA 2014. National Functional Guidelines for Superfund Organic Methods Data Review, August.

EPA 2016. National Functional Guidelines for Superfund Inorganic Methods Data Review, September.