NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)

ALBANY SITE
GROUNDWATER MONITORING REPORT
EVENT 45 – August 2022

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DISCLAIMER

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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 2022 (Periodic Event 45) 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 2022 sampling event is the 45th 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 2022 event show a flow to the north in the northern portion of the site (from MW-28 toward MW-10 and 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 broad potentiometric high centered on monitoring wells MW-14 and MW-26, 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 24 and 26, 2022. 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 8260D.

Seven VOCs were detected during the August 2022 sampling event and are discussed in Section 4.1: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dibromo-3-chloropropane, and hexachlorobutadiene. All seven of 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 2022 (Periodic Event 45) 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 45 Work Plan Memo (July 2022).

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 2022 sampling event is the forty-fifth 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 23	March 2011
Event 2	November/December 2002	Event 24	August/September 2011
Event 3	February/March 2003	Event 25	March 2012
Event 4	May 2003	Event 26	August 2012
Event 5	August 2003	Event 27	March 2013
Event 6	November 2003	Event 28	August 2013
Event 7	February 2004	Event 29	February 2014
Event 8	May 2004	Event 30	August 2014
Event 9	October 2004	Event 31	March 2015
Event 10	February 2005	Event 32	August 2015
Event 11	September 2005	Event 33	April 2016
Event 12	February 2006	Event 34	September 2016
Event 13	October 2006	Event 35	April 2017
Event 14	March 2007	Event 36	August 2017
Event 15	June 2007	Event 37	March 2018
Event 16	October 2007	Event 38	August 2018
Event 17	March 2008	Event 39	March 2019
Event 18	October 2008	Event 40	August 2019
Event 19	March 2009	Event 41	March 2020
Event 20	September 2009	Event 42	March 2021
Event 21	March 2010	Event 43	August 2021
Event 22	August 2010	Event 44	March 2022

Event 45	August 2022		

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 44). 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 2022 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 thirty-five of the 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 44.

2.2 Groundwater Sampling

Groundwater samples were collected between August 24 and 26, 2022 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 8260D.

Two field duplicates samples were collected during the event, one set each from wells MW-4 and MW-24. 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

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.

There were considerable problems with the data quality. Seven analytes were detected in the Trip Blank, four of which are a normal part of the Site contaminant suite. Three compounds: chloromethane, bromomethane, and trichlorofluoromethane; are believed to be a result of lab error, and all sample results with these were labelled as unusable. Both TCE and DCE were found in the trip blank. TCE and cis-1,2-DCE sample concentrations that were less than the reporting limit of 1 µg/L were labelled as non-detect following guidance in the EPA document "National Functional Guidelines for Superfund Organic Methods Data Review".

Seven analytes were detected in the method blanks in five analytical batches. The most important were TCE and cis-1,2-DCE, and data validation resulted in sample concentrations of these that were less than the reporting limit of 1 µg/L being labelled as non-detect as indicated in the EPA data validation document.

There were an extraordinarily large number of QC problems with this data. Detection of analytes necessary to the characterization of the Site, specifically TCE and cis-1,2-DCE, in trip and method blanks makes an accurate measurement of changes in contamination difficult. Fortunately, only sample detections less than the reporting limit of 1 µg/L were removed by validation, and the picture of the main parts of the plumes appears accurate.

Samples were reanalyzed for up to 9 analytes in all 32 wells. This reanalysis was performed from 13 to 25 days past the 14-day holding time. In accordance with the EPA data validation document, where holding times were grossly exceeded, detects were qualified as estimated low (J-) and non-detects as unusable (R).

With the additional data qualifications from the validation process, the sample results are considered valid for continued characterization of the Site groundwater contamination. 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 45.

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 well MW-10. 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 2022 Groundwater Elevations and Flow Direction

Groundwater levels were measured in the thirty-five existing wells and piezometers in August 2022. Groundwater depths ranged from 5.94 feet bgs at MW-28 to 20.51 feet bgs at MW-1. Groundwater elevations ranged from 200.98 feet above mean sea level (amsl) at MW-5 to 217.58 feet amsl at MW-28. Event 45 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 2022 groundwater elevation (207.39 feet) was 4.82 feet lower than the average elevation during the previous wet season (March 2022, 212.21 feet) and 2.16 feet higher than the previous dry season (August 2021, 205.23 feet).

Figures 3 and 4 show the groundwater elevation contours for the Perched Aquifer and Gravel Aquifer, respectively, for the August 2022 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 2022 Groundwater event show a flow to the north in the northern portion of the site (from MW-28 toward MW-10 and MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-28. In August 2022 there was virtually no difference between the groundwater elevations in MW-10 and MW-11. The steepest gradient is between wells MW-28 and MW-13 (9.21 feet) toward the southwest.

In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-14 and MW-26, from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells MW-5 and MW-31 at the south end of the site (Figure 4). The gradient in the gravel aquifer is relatively flat across the main part of the site and under the Liberty Elementary School property; 2.9 E-04 (between MW-23 and MW-24); and -1.34 E-03 (between MW-25 and MW-23). The gradient steepens to the south; 7.25 E-03 (between MW-16 and MW-6) and 4.43 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 2022 sampling event. Groundwater samples from thirty-one monitoring wells were analyzed for VOCs. Table 5 summarizes the August 2022 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. Detections found to be unusable in data validation are not listed in Table 6. Appendix B includes the Eurofins TestAmerica Laboratories Analytical Reports and Appendix C summarizes all reported groundwater lab data of volatile organics. Appendix D contains the data validation document.

Table 7 lists federal and state groundwater quality standards and criteria for VOCs. The table includes Oregon Groundwater MMLs as defined in Oregon Administrative Rule (OAR) 340-040-0020 (Groundwater Quality Protection). The MMLs are the maximum measurable concentrations of the chemicals in groundwater established by the State of Oregon. From OAR 340-040-020: “They will be used by the Department and the public to evaluate the significance of a particular contaminant concentration, and will trigger necessary regulatory action. These levels should not be construed as acceptable groundwater quality goals because it is the policy of the EQC (OAR 340-041-0026(1)(a)) to maintain and preserve the highest possible water quality.” From OAR 340-040-100: “The maximum measurable levels established by these rules are not designed to be used as drinking water standards or as clean-up standards for remedial actions, but to initiate the process of designating groundwater management areas where necessary to preserve groundwater quality”.

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 2022 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 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 were detected during the August 2022 sampling event: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dibromo-3-chloropropane, and hexachlorobutadiene. All seven of 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). Table 5 summarizes the detections and Table 6 contains all of the analytical results for the detected volatile organics.

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 2022 sampling event at concentrations ranging from 0.33 (H J-) µg/L at MW-17 to 950 (H J-) µg/L at MW-20. Seven of the detections of carbon tetrachloride exceeded the minimum groundwater criteria, which is the Oregon DEQ RBC of 0.41 µg/L. In addition, seven 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 ten of the thirty-one wells sampled during the August 2022 sampling event at concentrations ranging from 0.50 (J) µg/L at MW-26 to 110 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 reliably detected in two of the thirty-one wells sampled during the August 2022 sampling event at concentrations ranging from 1.5 (J+) µg/L at MW-22 to 4.7 (J+) µg/L at MW-30. One of the detections exceeded the minimum screening criteria, which is the EPA RSL of 3.6 µg/L. DCE was detected in trace amounts in most of the samples, but also found in similar concentrations in the trip and method blanks. Most of these trace detections were removed in data validation. Cis-1,2-DCE is a breakdown product of the anaerobic degradation of TCE.

Tetrachloroethene (PCE). PCE was detected in four of the thirty-one wells sampled during the August 2022 sampling event at concentrations ranging from 0.57 (J) µg/L at MW-24 to 8.2 µg/L at MW-20. 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.

Trichloroethene (TCE). TCE was reliably detected in ten of the thirty-one wells sampled during the August 2022 sampling event at concentrations ranging from 1.5 (B J+) µg/L at MW-23 to 140 (B J+) 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, all of the detections exceed the Oregon DEQ RBC of 0.43 µg/L and seven of the detections exceed the Oregon MML, the Oregon Hot Spot Value and EPA Primary Drinking Water Standard of 5 µg/L. TCE was detected in trace amounts in most of the samples, but also found in similar concentrations in the trip and method blanks. Most of these trace detections were removed in data validation. TCE is an industrial solvent used in degreasing and other industrial applications.

1,2-Dibromo-3-Chloropropane was detected in MW-5 at 0.69 (J) µg/L in the August 2022 sampling event. This exceeds the minimum groundwater criteria, which is the EPA RSL of 0.00033 µg/L. This compound is a nematicide,

and has never been found in the NETL groundwater. Its occurrence is likely an artifact of a Lab Control Sample (LCS) spike, which contained this substance.

Hexachlorobutadiene was detected in MW-5 at 0.82 (J) µg/L in the August 2022 sampling event. This exceeds the minimum groundwater criteria, which is the EPA RSL of 0.30 µg/L. Hexachlorobutadiene is a chlorinated solvent, and has been previously detected in samples from MW-18.

4.2 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 2022:

- Temperatures ranged from 13.4 degrees Celsius (°C) at MW-5 to 23.8 °C at MW-17.
- DO was detected in all of the thirty-one wells and ranged from 0.20 at MW-19 to 7.03 at MW-23.
- pH ranged from 6.22 s.u. at MW-11 to 7.68 s.u. at MW-23.
- Conductivity ranged from 0.110 milli Siemens per centimeter (mS/cm) at MW-28 to 0.554 mS/cm at MW-100.
- ORP ranged from -168 millivolts (mV) at MW-29 to 205 mV at MW-10.
- All thirty-one wells sampled had measurable turbidity once readings stabilized. The measurable turbidity ranged from 1.70 nephelometric turbidity units (NTUs) at MW-23, to 36.54 NTUs at MW-103.

4.3 Contaminant Trends

Several important trends in the VOC concentrations were noted at nineteen locations: MW-3, MW-4, MW-5, MW-14, MW-15, MW-17, MW-18, MW-20, MW-22, MW-23, MW-24, MW-27, MW-28, 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 remain non-detect after a one-time detection in August 2021. All other contaminants remain 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 seasonally with higher concentrations reported during the dry season. The August 2022 value of 1.4 µg/l was below that of August 2021(1.8 µg/L) and well below the previous high recorded in August 2017 of 4.8 µg/l. Concentrations of carbon tetrachloride were elevated at 15.0 µg/l during the March 2009 sampling event but have been non-detect since then.
- *MW-14.* Concentrations of chloroform had been on an overall downward trend since a high of 12 µg/L in April 2016, however, the August 2021 concentration of 11 ug/l was a sharp increase. The August 2022 value of 5.2 ug/l is very close to the 4.7 ug/l from March 2022. Carbon tetrachloride 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 2022 sampling event.
- *MW-15.* Concentrations of TCE continued to decrease after an all-time high of 3,100 µg/L in March 2019. The August 2022 value of 25 (B J+) µg/L is a slight increase over the March 2022 record low concentration of 14 (H) µg/L. Chloroform was only slightly higher (1.5 µg/L) than it was in the record low of 0.99 µg/L in August 2021. Cis-1,2.-DCE was not detected above the reporting limit of 1 µg/L. The August 2022 value for carbon tetrachloride of 12 (H J-) µg/L is an increase over the record low of 3.5 (H) µg/L in March 2022, but only a slight interruption in a long-term downward trend. PCE was not detected.
- *MW-17.* After a sharp decrease from the 44 µg/L in August 2021 to 8.3 (H) µg/L in March 2022, TCE rebounded to 31 (B J+) µg/L in August 2022. Carbon tetrachloride was detected at 0.33 (H J-) µg/L, similar to the low concentrations of August 2021 and March 2022. Carbon tetrachloride concentrations have shown a downward trend since August 2014. Chloroform was not present after low level detections in the three previous sampling events. Cis-1,2-DCE and PCE were non-detect during the August 2022 sampling event.
- *MW-18.* The four primary VOCs (carbon tetrachloride, chloroform, TCE, and PCE) continue at a small percentage of their historical values after a sharp decline that started in March 2021. Record low

concentrations of carbon tetrachloride, TCE, chloroform, and PCE were detected in March 2022. August values of carbon tetrachloride (55 µg/L), chloroform (9.8 µg/L), TCE (63 B J+ µg/L), and PCE (5.1 µg/L) were slightly higher than in the spring.

- *MW-20.* Concentrations of carbon tetrachloride (950 H J- µg/L), chloroform (110 µg/L), PCE (8.2 µg/L), and TCE 140 B J+ µg/L) fluctuate seasonally and were comparable to previous values. Carbon tetrachloride, chloroform, and PCE all have long-term increasing concentrations.
- *MW-22.* All five contaminants continue long-term decreases. Carbon tetrachloride (6.4 µg/L), chloroform (1.8 µg/L), TCE (5.5 B J+ µg/L), and PCE (0.76 µg/L) are lower than or equal to concentrations in March 2022.
- *MW-23.* Carbon tetrachloride (1.5 µg/L) and TCE (1.5 B J+) concentrations continue an overall downward trend that started in 2012. Chloroform (2.20 µg/L) has increased gradually since 2014 and exhibits seasonal variations with lower values in the dry season. Cis-1,2-DCE and PCE remain at non-detected concentrations.
- *MW-24.* Concentrations of carbon tetrachloride (150 µg/L), chloroform (19 µg/L), and TCE (68 B J+) are lower than their August 2021 record levels and very close to those of March 2022. Cis-1,2-DCE remained at non-detected concentrations. PCE (0.57 µg/L) declined from a sharp spike in March 2022 of 8.5 (J H) µg/L. All four have been increasing since 2007.
- *MW-27*. Carbon tetrachloride (51 µg/L) and chloroform (13 µg/L) returned to an overall trend of declining concentrations that began in 2012. TCE, cis-1,2-DCE, and PCE remain non-detect.
- MW-28. After chloroform was detected for the first time ever at 1.2 (H) µg/L in March 2022, all contaminants were non-detect.
- *MW-30*. The concentration of cis-1,2-DCE of 4.7 µg/L in August 2022 continues a downward trend since 2012. Carbon tetrachloride, chloroform, PCE, and TCE remain non-detected.
- *MW-100.* TCE (31 B J+ µg/L) continues to show strong seasonality with higher concentrations in the dry season. The August 2021 value of 80 µg/L was the highest since 2011. Carbon tetrachloride (0.37 µg/L) has been detected occasionally since 2012 at low levels.
- *MW-101*. TCE was detected at 2.2 (B J+) µg/l in both August and March 2022, higher than the 1.8 µg/L for August 2021. This continues a strong overall upward trend since August 2017. Concentrations of carbon tetrachloride, chloroform, cis-1,2-DCE, and PCE remain non-detected.
- *MW-102*. The concentration of TCE of 4.0 (B J+) µg/L in August 2022 is 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*. With the exception of one trace amount each of carbon tetrachloride in 2020 and TCE in 2021, all results have non-detect since 2014.

Results from Event 45 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 offsite to the northwest. The August 2022 highest detected carbon tetrachloride concentration (950 H J- µg/L) was in well MW-20, located north of the suspected primary source area near MW-18. The concentrations at MW-20 have been strongly seasonal with an overall increasing trend as shown in Figure 6. Concentrations in MW-24 at the northern property boundary had been steadily increasing since approximately 2007, but this trend was interrupted by a decline to 140 µg/L in March 2022 from the August 2021 record high value of 250 µg/L. The August 2022 concentration of 150 µg/L continues this decline. The concentrations at MW-18 fluctuate seasonally, but have been steadily decreasing since 2006, with a sharp drop in March 2021. To the southwest, MW-22 had a concentration of 6.4 µg/L during Event 45, which is a new record low. This well shows an overall decreasing trend in carbon tetrachloride concentrations since

monitoring started in 2007. The data indicate that the extent of contamination possibly has 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 51 µg/L. This follows a record low of 32 µg/L in August 2021, and continues 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 nine 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 (110 µg/L). Concentrations at MW-20 have shown a general increase in concentrations over time with relatively stable values since 2018. At MW-18, which is located near the primary source area, chloroform concentrations have decreased considerably since August 2019. The August 2022 value of 9.8 µg/L continues the sharp drop that started in March 2021. Like carbon tetrachloride, this appears to indicate that the plume has moved away from the source area near MW-18 and toward the northwest. 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 had large seasonal fluctuations since March 2009, and the August 2022 value of 5.2 µg/L continues this trend. Carbon tetrachloride, the precursor to chloroform, has been rarely observed in MW-14. Concentrations of chloroform to the north of the release area, specifically MW-24, show a consistent increase over time and the March 2022 value of 27 µg/L was a new record. The August 2022 value was 19 µg/L. Concentrations to the southwest (MW-22, 1.8 µg/L), have shown a decrease in concentrations over time, with stable values from 2016 to August 2022. Delineation of concentrations is not complete further to the southwest beyond MW-22. Well MW-5 (1.4 µg/L), at the southern boundary of the Site, continues to have chloroform detections of greater than 1 µg/L.

Like carbon tetrachloride, chloroform is only found in well MW-27 (13 µg/L) in the Perched aquifer. Concentrations have been stable at just under 20 µg/L since March 2015.

Trichloroethene. Figure 9 shows contours of TCE concentrations in the Gravel Aquifer. TCE was detected in ten 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 140 B J+ µg/L. This is a 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 14 µg/L in March 2022. The August 2022 value of 25 µg/L continues this trend. TCE concentrations in MW-18 dropped sharply in March 2021 and reached a new historic low of 36 µg/L in March 2022, followed by 63 µg/L in August 2022.

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 in August 2021 followed by 69 µg/L in March and 68 µg/L in August 2022. Shifts in the highest concentrations from the source area wells MW-15 and MW-18 to wells MW-20 and MW-24 highlight the movement of the TCE plume to the northwest.

Concentrations are consistently decreasing in the southwest part of the site at MW-22 with record lows of 5.5 µg/L in March and August 2022. This is indicative of further movement of the southwest plume offsite.

TCE was detected in three of the four offsite wells, MW-100, MW-101, and MW-102, in the eastern area of contamination. The 80 µg/L TCE spike in MW-100 in August 2021 decreased to 31 B J+ µg/L in August 2022. This value, along with the identical value in MW-17 across the street may indicate some eastward movement of this plume, although of a much lower magnitude than in the past. MW-101 (2.2 µg/L in both March and August 2022) remained higher than 1 µg/L as it has since August 2017. Concentrations at MW-102 have been generally decreasing since approximately 2006 and the August value of 4.0 µg/L is a new record low.

Tetrachloroethene. PCE concentration contours are shown on Figure 10. During Event 45, PCE was detected in five of the twenty-two wells in the Gravel Aquifer and none in the Perched Aquifer. The highest concentration (8.2 µg/L) was at MW-20, which follows a record high of 14 µg/L in March 2021. At MW-18, in the likely source area, the August 2022 value of 5.1 µg/L follows an historic record low of 3 µg/L in March 2022. It appears that PCE sources near MW-18 are being transported to the northwest near MW-20 and MW-24 along with other VOCs. Concentrations along the

northern site boundary at MW-24 have fluctuated greatly since 2012, and the August value of 0.57 J µg/L is a return to low-level detections. PCE has remained non-detect since August 2012 at MW-23.

PCE concentrations to the southwest, at MW-22 (0.76 J µg/L, a new record low), 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 44 (March 2022), cis-1,2-DCE was detected in six of the twenty-two wells in the Gravel Aquifer in a three-lobed pattern similar to those found in the other contaminants. In the August 2022 sampling event, cis-1,2-DCE contamination in one of the method blanks resulted in the trace concentrations (less than 1 µg/L) that define this pattern not being considered valid. In August 2022 the highest concentration (4.7 J+ µg/L) was at MW-30, and is consistent with a decreasing trend that started in 2012, shortly after the well was installed. Concentrations in well MW-22 (1.5 µg/L), which appears connected to the occurrence in MW-30, continue at stable values around 2 µg/L.

5.0 Summary

This section summarizes WE2's observations on the results of the 45th periodic sampling event conducted in August 2022.

5.1 Groundwater Flow

- Groundwater levels were measured in the thirty-five existing wells and piezometers in August 2022. Groundwater depths ranged from 5.94 feet bgs at MW-28 to 20.51 feet bgs at MW-1. Groundwater elevations ranged from 200.98 feet above mean sea level (amsl) at MW-5 to 217.58 feet amsl at MW-28.

- The average August 2022 groundwater elevation (207.39 feet) was 4.82 feet lower than the average elevation during the previous wet season (March 2022, 212.21 feet) and 2.16 feet higher than the previous dry season (August 2021, 205.23 feet).

- Groundwater elevations from wells in the Perched Aquifer (Figure 3) measured during the August 2022 Groundwater elevations from wells in the Perched Aquifer measured during the August 2022 event show a flow to the north in the northern portion of the site (from MW-28 toward MW-10 and MW-11), and to the south/southwest and to the east away from a potentiometric high near MW-28. In August 2022 there was virtually no difference between the groundwater elevations in MW-10 and MW-11.

- In the Gravel Aquifer, groundwater elevation data shows a broad potentiometric high centered on monitoring wells MW-14 and MW-26, from which flow is radially away in all directions. The steepest flow gradient is from this high toward wells MW-5 and MW-31 at the south end of the site (Figure 4).

5.2 Groundwater Quality

- Seven VOCs were detected during the August 2022 sampling event: carbon tetrachloride, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dibromo-3-chloropropane, and hexachlorobutadiene.
- All detections 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 dropped from their recent record high values in well MW-24, but are still part of a long-term increase at the northwest and north boundaries of the Site indicating plume movement beyond the property line. The August 2022 highest detected carbon tetrachloride concentration (950 H J- µg/L) was in well MW-20, located north of the suspected primary source area near MW-18. The concentrations at MW-20 have been strongly seasonal with an overall increasing trend. 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 (see 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), contaminants continue long-term decreases. Carbon tetrachloride, chloroform, TCE, and PCE are lower than or equal to concentrations in March 2022. This likely means that that the plume has largely left the vicinity of this well, although there is no data from off-site to delineate its present location.

MW-15 Concentrations of TCE continued to decrease after an all-time high of 3,100 µg/L in March 2019. The August 2022 value of 25 (B J+) µg/L is a slight increase over the March 2022 record low concentration of 14 (H) µg/L. Concentrations of carbon tetrachloride and chloroform have steadily decreased since 2006 and both reached new record low concentrations in March 2022 with slight increases in August. The decline in contaminant concentrations in MW-15 and concurrent increases at the northwest corner of the Site appear to indicate that the majority of the contaminants have migrated away from the 1992 drum spill (see 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).

- MW-18 is located near the solvent disposal sump source area (see 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) 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 four primary VOCs (carbon tetrachloride, chloroform, TCE, and PCE) continue at a small percentage of their historical values after a sharp decline that started in March 2021. Record low concentrations of carbon tetrachloride, TCE, chloroform, and PCE were detected in March 2022. August values of carbon tetrachloride, chloroform, TCE, and PCE were slightly higher than in the spring. These appear to show that most of the historic contamination has migrated away from MW-18 toward wells MW-20 and MW-24 in the northwest corner of the Site.
- In wells to the east of the 1992 drum spill source area near MW-15, TCE was detected in three of the four offsite wells, MW-100, MW-101, and MW-102. The 80 µg/L TCE spike in MW-100 in August 2021 decreased to 31 B J+ µg/L in August 2022. This value, along with the identical value in MW-17 across the street may indicate some eastward movement of this plume, although of a much lower magnitude than in the past.

6.0 References

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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 45 Work Plan Memo. July 2022*.

TABLES

Table 1
Monitoring Well Construction

Groundwater Sampling Event 45
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 45
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	8/24/22	228.10	20.51	207.59	-	-	-	-	-	-
MW-3	8/24/22	219.61	12.36	207.25	7.11	17.3	0.267	4.39	5.87	173
MW-4	8/23/22	218.28	6.88	211.40	6.70	18.7	0.358	7.46	1.46	101
MW-5	8/25/22	217.08	16.10	200.98	6.74	13.4	0.351	4.97	4.28	143
MW-6	8/24/22	219.48	18.00	201.48	6.58	14.9	0.144	23.48	4.29	104
MW-7	8/25/22	216.85	7.80	209.05	6.57	13.9	0.296	8.03	4.21	183
MW-8	8/23/22	220.23	13.70	206.53	6.73	15.1	0.173	5.86	2.09	192
MW-9	8/24/22	224.00	10.14	213.86	6.85	15.1	0.213	5.97	2.89	188
MW-10	8/24/22	225.41	9.57	215.84	6.37	15.8	0.159	7.61	0.54	205
MW-11	8/25/22	227.73	11.77	215.96	6.22	15.1	0.142	6.21	0.98	7.50
MW-13	8/23/22	223.31	14.94	208.37	6.85	18.4	0.186	3.81	1.96	178
MW-14	8/24/22	224.77	16.76	208.01	6.82	18.6	0.155	10.17	3.17	168
MW-15	8/23/22	222.96	16.61	206.35	6.90	16.7	0.368	8.51	3.40	154
MW-16	8/25/22	217.57	12.73	204.84	6.76	14.3	0.307	9.88	1.17	75
MW-17	8/23/22	218.84	12.17	206.67	7.48	23.8	0.280	7.38	3.80	156
MW-18	8/24/22	224.00	17.48	206.52	7.14	17.2	0.368	2.68	2.61	143
MW-19	8/24/22	224.20	18.00	206.20	6.52	16.4	0.157	2.28	0.20	160
MW-20	8/24/22	225.62	18.51	207.11	7.23	15.3	0.365	9.23	0.78	191
MW-21	8/25/22	216.60	12.32	204.28	-	-	-	-	-	-
MW-22	8/25/22	216.57	12.50	204.07	7.27	14.4	0.313	4.43	0.75	-13.7
MW-23	8/24/22	227.87	20.27	207.60	7.68	16.2	0.303	1.70	7.03	167
MW-24	8/26/22	227.49	19.97	207.52	7.49	14.9	0.332	5.94	1.32	107
MW-25	8/23/22	220.38	14.55	205.83	6.94	15.3	0.184	10.43	1.71	171
MW-26	8/24/22	220.63	12.50	208.13	7.05	16.6	0.243	11.42	0.29	110
MW-27	8/23/22	222.80	12.82	209.98	6.93	19.3	0.259	5.47	6.59	155
MW-28	8/24/22	223.52	5.94	217.58	7.23	19.2	0.110	22.69	5.19	133
MW-29	8/23/22	217.93	12.93	205.00	7.28	18.3	0.542	19.59	0.22	-168
MW-30	8/24/22	219.26	17.09	202.17	7.50	15.5	0.342	29.22	0.30	-133
MW-31	8/24/22	216.78	14.87	201.91	7.62	15.1	0.403	10.97	0.32	-147
MW-100	8/25/22	218.37	11.68	206.69	7.26	15.5	0.554	6.89	0.40	134
MW-101	8/25/22	218.54	12.43	206.11	7.39	18.1	0.386	10.44	3.44	105
MW-102	8/25/22	217.64	10.56	207.08	7.54	15.4	0.296	18.26	1.18	104
MW-103	8/25/22	216.51	8.85	207.66	7.31	17.6	0.342	36.54	1.03	111
PZ-1A	8/23/22	220.10	13.58	206.52	-	-	-	-	-	-
PZ-1B	8/23/22	220.05	13.50	206.55	-	-	-	-	-	-

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 45
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft AMSL)															
		8/23/2022	8/23/2022	3/17/2022	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
MW-1	228.10	20.51	207.59	208.93	206.32	209.64	208.82	207.36	208.90	207.20	207.59	207.38	210.45	207.18	209.98	207.37	209.05	207.70
MW-3	219.61	12.36	207.25	210.94	205.77	211.59	210.50	207.96	210.44	207.01	207.25	206.98	211.56	207.44	211.03	207.76	210.24	208.27
MW-4	218.28	6.88	211.40	216.88	209.28	216.54	216.25	210.84	215.55	210.10	211.40	210.63	216.46	209.85	215.86	210.28	216.57	212.27
MW-5	217.08	16.10	200.98	206.83	199.32	207.62	206.53	201.28	206.63	201.26	200.98	200.71	207.75	200.41	206.59	200.08	205.95	200.93
MW-6	219.48	18.00	201.48	207.28	199.41	207.36	205.89	200.18	205.97	200.03	201.48	199.93	207.05	199.48	205.96	199.40	205.64	200.17
MW-7	216.85	7.80	209.05	215.70	206.37	215.76	215.40	208.10	214.85	207.75	209.05	208.02	215.68	206.90	215.61	206.39	215.25	209.84
MW-8	220.23	13.70	206.53	212.50	204.47	213.25	212.51	208.71	212.45	207.25	206.53	207.98	213.73	207.61	213.34	207.78	213.13	209.28
MW-9	224.00	10.14	213.86	222.95	209.39	222.32	221.63	211.98	221.53	210.78	213.86	213.00	222.45	209.63	221.88	210.39	222.19	211.92
MW-10	225.41	9.57	215.84	224.11	212.36	223.43	223.21	213.57	222.68	213.60	215.84	214.15	223.56	212.28	223.18	213.76	223.71	215.79
MW-11	227.73	11.77	215.96	221.98	212.29	221.19	220.19	213.08	220.63	212.58	215.96	213.42	221.30	212.42	220.57	212.82	221.13	214.43
MW-13	223.31	14.94	208.37	213.56	205.94	213.99	213.03	209.66	212.90	207.96	208.37	208.01	214.51	208.58	214.19	209.26	213.23	209.65
MW-14	224.77	16.76	208.01	210.47	210.52	212.06	210.00	207.92	209.99	207.44	208.01	207.52	211.52	207.54	211.14	207.90	209.89	208.26
MW-15	222.96	16.61	206.35	210.91	203.36	211.58	210.63	207.94	210.37	206.24	206.35	206.51	211.65	207.41	211.08	207.71	210.53	208.31
MW-16	217.57	12.73	204.84	211.67	202.74	211.47	211.07	205.41	210.81	205.17	204.84	205.12	211.82	204.87	211.37	204.21	211.12	205.89
MW-17	218.84	12.17	206.67	210.95	204.93	211.50	210.57	207.91	210.49	206.42	206.67	206.74	211.66	207.41	211.39	207.64	213.46	208.28
MW-18	224.00	17.48	206.52	210.87	203.65	211.58	210.51	207.88	210.28	206.42	206.52	206.51	211.77	207.25	211.11	207.70	210.33	208.30
MW-19	224.20	18.00	206.20	210.60	203.26	211.14	210.30	207.53	210.20	206.22	206.20	206.65	212.00	206.93	210.63	207.18	210.30	208.09
MW-20	225.62	18.51	207.11	209.82	201.87	210.38	209.54	207.34	209.57	206.75	207.11	207.09	211.21	206.94	210.52	207.20	209.64	207.69
MW-21	216.60	12.32	204.28	211.05	202.40	211.18	210.53	204.78	210.45	204.43	204.28	204.26	211.25	203.82	210.60	203.67	210.35	204.69
MW-22	216.57	12.50	204.07	210.87	202.43	211.19	210.12	204.50	210.17	204.25	204.07	204.02	210.98	203.50	210.31	203.31	210.08	204.65
MW-23	227.87	20.27	207.60	208.92	206.31	209.64	208.87	207.32	208.87	207.17	207.60	207.37	210.45	207.19	209.98	207.39	209.01	207.71
MW-24	227.49	19.97	207.52	209.19	206.18	209.71	208.94	207.29	208.89	207.13	207.52	207.34	210.70	207.17	209.87	207.28	209.21	207.54
MW-25	220.38	14.55	205.83	211.73	202.23	212.30	210.98	207.50	210.68	206.05	205.83	206.48	212.28	206.53	211.44	206.86	211.41	207.86
MW-26	220.63	12.50	208.13	210.33	206.28	211.72	209.08	208.09	209.16	207.58	208.13	207.51	210.85	206.88	210.46	207.73	209.72	208.36
MW-27	222.80	12.82	209.98	214.25	208.43	214.49	213.62	209.95	213.78	208.57	209.98	209.02	214.55	208.48	214.05	208.94	213.75	210.35
MW-28	223.52	5.94	217.58	220.32	216.90	219.86	219.47	218.06	219.45	217.40	217.58	217.55	220.32	216.91	219.92	217.37	220.82	218.06
MW-29	217.93	12.93	205.00	210.75	202.37	211.24	210.43	207.60	210.31	206.03	205.00	205.38	211.63	206.93	210.98	207.75	210.91	208.46
MW-30	219.26	17.09	202.17	208.06	201.22	208.19	206.84	201.48	206.75	202.16	202.17	201.68	207.76	200.55	206.88	200.34	206.29	201.19
MW-31	216.78	14.87	201.91	207.43	200.50	207.87	206.76	201.09	206.78	201.34	201.91	200.66	207.80	200.51	206.81	200.42	206.38	201.24
MW-100	218.37	11.68	206.69	211.07	204.34	211.51	210.62	207.82	210.49	206.47	206.69	207.02	211.69	207.06	210.95	207.62	210.51	208.13
MW-101	218.54	12.43	206.11	211.04	203.47	211.48	210.64	207.72	210.46	206.14	206.11	206.84	211.72	206.58	210.92	207.53	210.54	208.07
MW-102	217.64	10.56	207.08	211.24	205.26	211.58	210.62	207.79	210.47	206.76	207.08	207.16	211.66	207.29	210.92	207.56	210.48	208.04
MW-103	216.51	8.85	207.66	210.91	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
PZ-1A	220.10	13.58	206.52	211.99	203.51	211.62	210.68	207.95	210.37	206.30	206.52	207.00	211.78	207.48	207.09	207.64	197.05	208.29
PZ-1B	220.05	13.50	206.55	211.21	203.55	211.69	210.78	207.86	210.40	206.41	206.55	207.13	211.87	207.68	207.13	207.68	197.00	207.99

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 45
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)																	
		2/15/2014	8/19/2013	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
MW-1	228.10	208.02	207.34	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
MW-3	219.61	209.78	207.77	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
MW-4	218.28	216.55	210.78	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
MW-5	217.08	207.27	200.88	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
MW-6	219.48	206.37	200.13	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
MW-7	216.85	215.41	208.50	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
MW-8	220.23	213.01	208.25	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
MW-9	224.00	224.00	212.73	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
MW-10	225.41	224.91	214.95	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
MW-11	227.73	222.86	214.08	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
MW-13	223.31	210.99	209.44	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
MW-14	224.77	Repeat	207.77	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
MW-15	222.96	210.01	207.93	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
MW-16	217.57	211.33	205.34	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
MW-17	218.84	210.10	207.76	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
MW-18	224.00	209.65	207.77	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
MW-19	224.20	209.96	207.87	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
MW-20	225.62	208.67	207.21	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
MW-21	216.60	210.46	204.41	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
MW-22	216.57	210.37	204.09	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
MW-23	227.87	208.02	207.34	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
MW-24	227.49	208.28	207.22	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
MW-25	220.38	211.43	207.16	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
MW-26	220.63	208.60	207.63	209.47	208.26	210.51	208.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	214.17	208.85	213.67	211.62	211.29	209.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	222.92	212.92	220.00	217.72	220.65	217.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	209.95	207.74	210.35	208.49	210.80	206.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	206.95	201.07	206.42	202.22	208.70	203.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	206.97	201.31	206.83	202.47	208.89	202.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	210.56	207.67	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
MW-101	218.54	210.67	207.61	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
MW-102	217.64	210.68	207.63	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
MW-103	216.51	210.61	207.50	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
PZ-1A	220.10	210.55	207.44	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
PZ-1B	220.05	210.60	207.71	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

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 45
NETL Albany, Albany, OR

Well Number	Measuring Point Elevation	Groundwater Elevation (ft. AMSL)											
		09/26/05	02/21/05	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	207.00	207.72	206.75	208.10	208.34	206.21	206.99	208.75	207.64	206.17	207.40	206.55
MW-3	219.61	207.49	208.98	207.32	209.04	209.96	206.34	207.00	209.57	209.20	206.04	207.67	207.49
MW-4	218.28	210.78	215.54	212.63	214.85	216.04	211.68	209.86	214.41	214.52	209.65	211.38	213.88
MW-5	217.08	200.77	204.59	201.35	204.23	206.58	200.48	199.92	204.78	205.51	199.87	201.17	203.34
MW-6	219.48	197.77	202.38	198.12	202.07	205.00	197.44	197.46	202.79	204.22	197.44	199.17	200.96
MW-7	216.85	207.60	213.52	209.17	213.13	214.84	206.67	206.88	212.73	213.52	205.46	207.00	212.29
MW-8	220.23	216.38	218.38	217.42	218.22	218.99	218.52	216.93	218.19	218.82	217.05	217.26	219.53
MW-9	224.00	207.04	210.34	207.80	210.12	210.83	207.20	207.37	209.57	209.16	206.36	207.80	208.07
MW-10	225.41	212.45	220.93	214.05	220.39	222.30	214.16	214.44	220.34	220.23	209.61	215.77	221.83
MW-11	227.73	215.46	218.89	213.83	219.37	221.25	215.53	216.84	220.23	221.03	211.85	216.85	219.85
MW-13	223.31	208.61	211.51	209.34	211.01	212.22	205.31	208.43	211.82	211.30	207.84	209.08	210.50
MW-14	224.77	207.48	208.58	207.24	208.89	209.51	206.53	207.35	209.62	208.66	206.43	207.87	207.12
MW-15	222.96	207.47	209.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	217.57	204.90	209.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	218.84	207.41	209.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	224.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19	224.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-20	225.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21	216.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-22	216.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-23	227.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24	227.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-25	220.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-26	220.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-27	222.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28	223.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	217.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	219.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	216.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-100	218.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-101	218.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-102	217.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-103	216.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1A	220.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-1B	220.05	NA	NA	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 45
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	215.84	-0.12	500.9	-2.40E-04
MW-11		215.96			
MW-10 to MW-8					
MW-10	Perched	215.84	9.31	744.9	1.25E-02
MW-8		206.53			
MW-10 to MW-4					
MW-10	Perched	215.84	4.44	1205.8	3.68E-03
MW-4		211.40			
MW-28 to MW-8					
MW-28	Perched	217.58	11.05	289.4	3.82E-02
MW-8		206.53			
MW-16 to MW-6					
MW-16	Gravel	204.84	3.36	463.6	7.25E-03
MW-6		201.48			
MW-16 to MW-31					
MW-16	Gravel	204.84	2.93	661.4	4.43E-03
MW-31		201.91			
MW-23 to MW-24					
MW-23	Gravel	207.60	0.08	321.5	2.49E-04
MW-24		207.52			
MW-25 to MW-23					
MW-25	Gravel	205.83	-1.77	1320.8	-1.34E-03
MW-23		207.60			

Table 5
Detection Summary

Groundwater Monitoring Event 45
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	7/31	950 H J-	MW-20	0.33 H J-
Chloroform	0.19	10/31	10/31	110	MW-20	0.50 J
cis-1,2-Dichloroethene	3.6	2/31	1/31	4.7 J+	MW-30	1.5 J+
Tetrachloroethene (PCE)	4.1	4/31	2/31	8.2	MW-20	0.57 J
Trichloroethene (TCE)	0.28	10/31	10/31	140 B J+	MW-20	1.5 B J+
1,2-Dibromo-3-Chloropropane	0.00033	1/31	1/31	0.69 J	MW-5	0.69 J
Hexachlorobutadiene	0.3	1/31	1/31	0.82 J	MW-5	0.82 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+ = Analyte was detected in the trip blank and/or the method blank, result may be biased high.

J- = Analyte was past holding time, result may be biased low.

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 6
Analytical Results for Detected Constituents - Volatile Organics

Groundwater Monitoring Event 45
NETL Albany, Albany, OR

Sample Location	Sample ID	Sample Date	Volatile Organic Concentrations						
			Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dibromo-3-Chloropropane	Hexachloro-butadiene
MW-3	MW3	8/24/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-4	Dup1	8/23/2022	0.30 U H R	0.26 U	0.35 U	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-4	MW4	8/23/2022	0.30 U	0.26 U	0.88 R B	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-5	MW5	8/25/2022	0.30 U	**1.4**	0.35 U	0.41 U	1.0 U	**0.69 J**	**0.82 J**
MW-6	MW6	8/24/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-7	MW7	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-8	MW8	8/23/2022	0.30 U	0.26 U	0.82 R	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-9	MW9	8/24/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-10	MW10	8/24/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-11	MW11	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-13	MW13	8/23/2022	0.30 U	0.26 U	0.75 R	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-14	MW14	8/24/2022	0.30 U	**5.2**	0.35 U	0.41 U	0.26 U	0.57 U	0.79 U
MW-15	MW15	8/23/2022	**12 H J-**	**1.5**	1.0 U B	0.41 U	**25 B J+**	0.57 U	0.79 U
MW-16	MW16	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-17	MW17	8/23/2022	**0.33 H J-**	0.26 U	1.0 U B	0.41 U	**31 B J+**	0.57 U	0.79 U
MW-18	MW18	8/24/2022	**55**	**9.8**	0.35 U	**5.1**	**63 B J+**	0.57 U	0.79 U
MW-19	MW19	8/24/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
MW-20	MW20	8/24/2022	**950 H J-**	**110**	1.0 U	**8.2**	**140 B J+**	0.57 U	0.79 U
MW-22	MW22	8/25/2022	**6.4**	**1.8**	**1.5 J +**	**0.76 J**	**5.5 B J+**	0.57 U	0.79 U
MW-23	MW23	8/24/2022	**1.5**	**2.2**	0.35 U	0.41 U	**1.5 B J+**	0.57 U	0.79 U
MW-24	Dup2	8/26/2022	**150**	**19**	0.35 U	**0.56 J**	**68 B J+**	0.57 U	0.79 U
MW-24	MW24	8/26/2022	**150**	**19**	0.35 U	**0.57 J**	**69 B J+**	0.57 U	0.79 U
MW-25	MW25	8/23/2022	0.30 U H R	0.26 U	1.0 U B	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-26	MW26	8/24/2022	0.30 U H R	**0.50 J**	0.35 U	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-27	MW27	8/23/2022	**51 H J-**	**13**	1.0 U B	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-28	MW28	8/24/2022	0.30 U H R	0.26 U	0.35 U	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-29	MW29	8/23/2022	0.30 U H R	0.26 U	1.0 U B	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-30	MW30	8/24/2022	0.30 U	0.26 U	**4.7 J+**	0.41 U	1.0 U	0.57 U	0.79 U
MW-31	MW31	8/24/2022	0.30 U H R	0.26 U	0.35 U	0.41 U	0.26 U H R	0.57 U	0.79 U
MW-100	MW100	8/25/2022	**0.37J**	0.26 U	1.0 U	0.41 U	**31 B J+**	0.57 U	0.79 U
MW-101	MW101	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	**2.2 B J+**	0.57 U	0.79 U
MW-102	MW102	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	**4.0 B J+**	0.57 U	0.79 U
MW-103	MW103	8/25/2022	0.30 U	0.26 U	0.35 U	0.41 U	1.0 U	0.57 U	0.79 U
Minimum Applicable Screening Criteria			**0.41**	**0.19**	**3.6**	**4.1**	**0.28**	**0.00033**	**0.3**

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
J+ = Analyte was detected in the trip blank and/or the method blank, result may be biased high.
J- = Analyte was past holding time, result may be biased low.
H = Analyzed past 14 day holding time
B = Analyte was detected in the Method Blank
R = Unusable as determined by data validation

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 45
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.

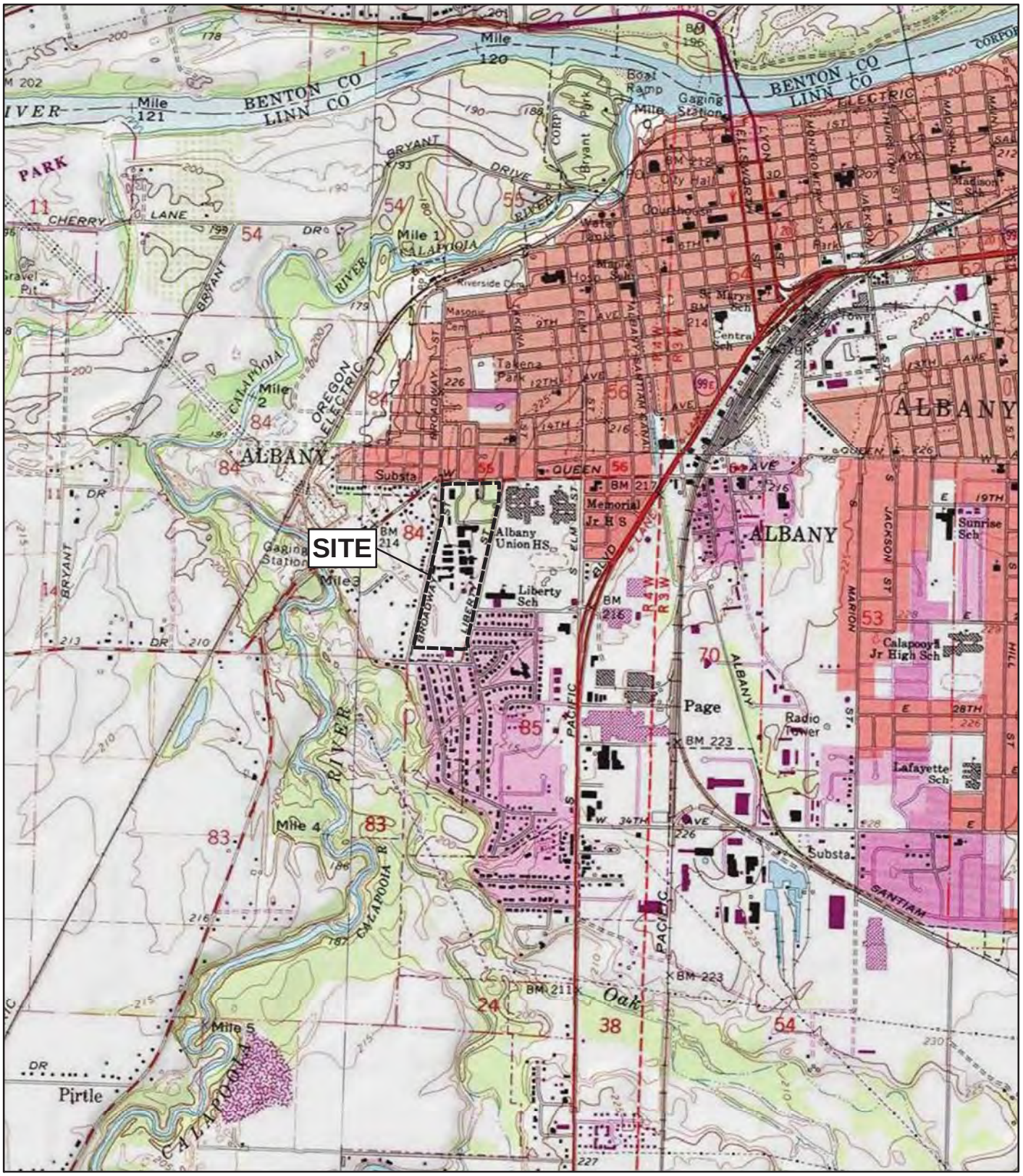
2 The Oregon Hot Spot Tables are provided by the Oregon DEQ under Environmental Cleanup Guidance, [see http://www.deq.state.or.us/pubs/reports.htm]. Values used are revised to reflect Oregon DEQ hierarchy (MCL/MML, RBC, then EPA Regional Screening Levels for Regions 3, 6 and 9). Hot Spot values were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

AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

FIGURE 1

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

Sources: NAIP, 2021.
Albany GIS, 2010.

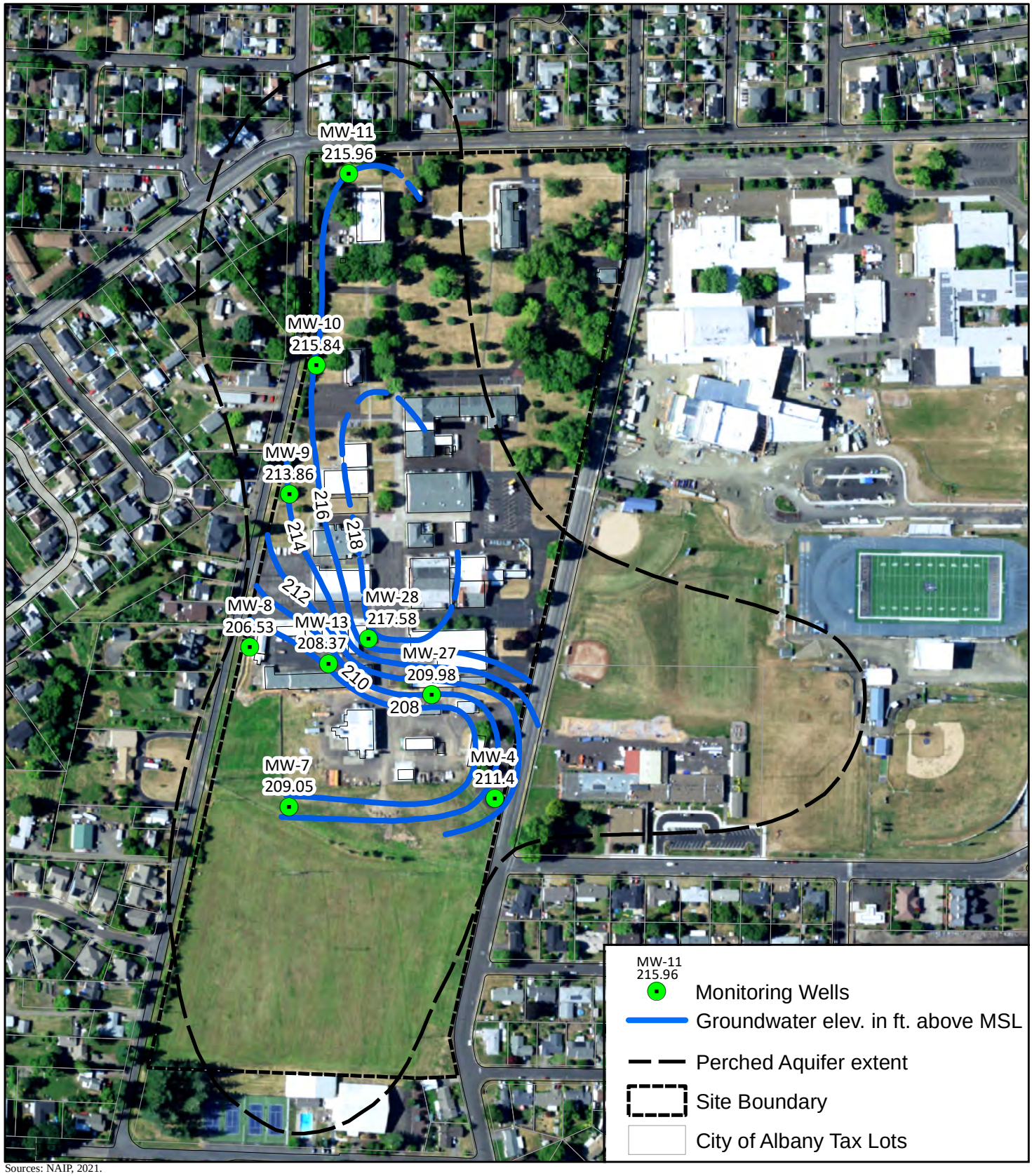
150 75 0 150 300
Feet

SITE MAP

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 2



Sources: NAIP, 2021.
Albany GIS, 2010.

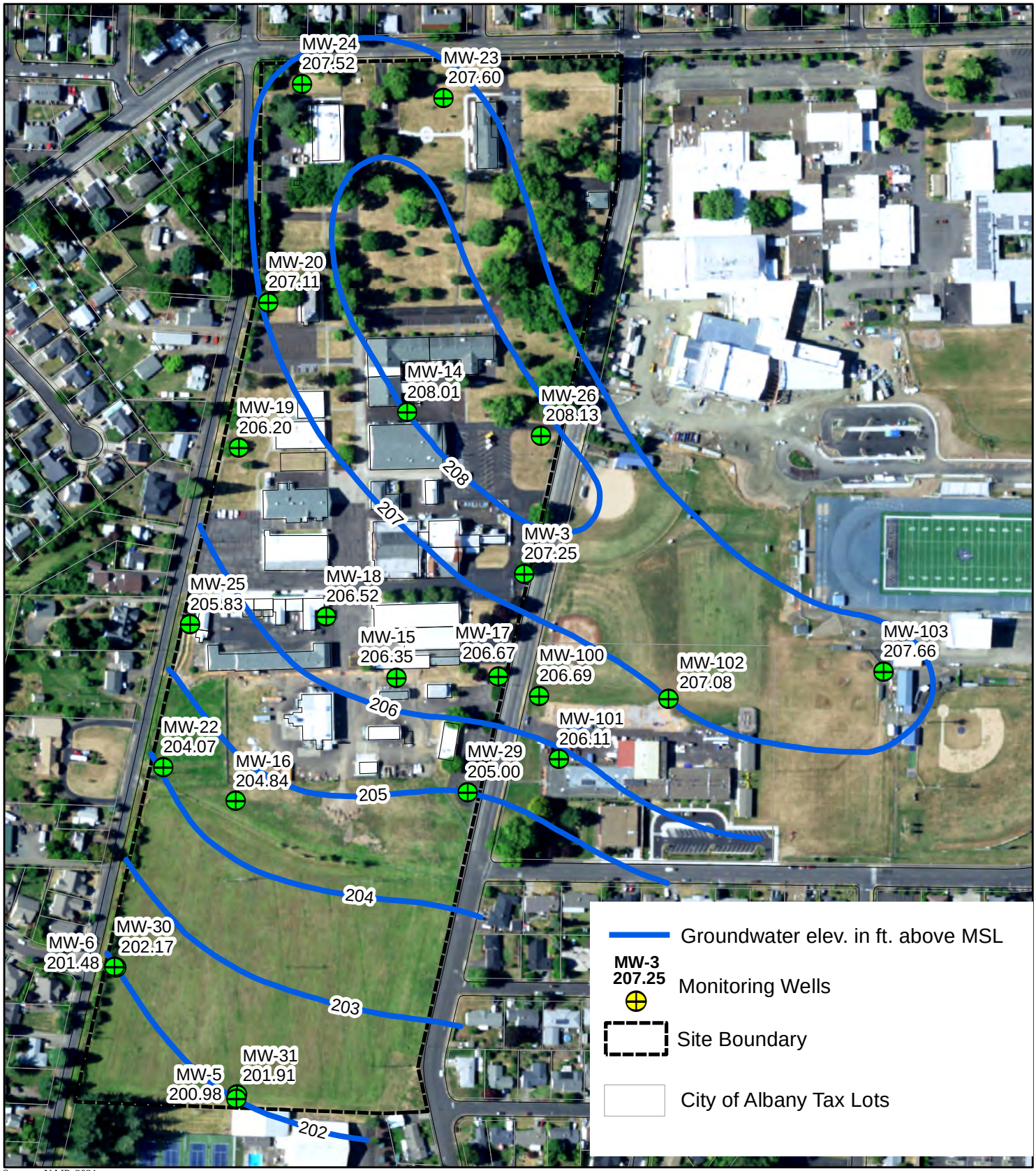
150 75 0 150 300
Feet

GROUNDWATER ELEVATION CONTOURS IN THE PERCHED AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 3



Sources: NAIP, 2021.
Albany GIS, 2010.

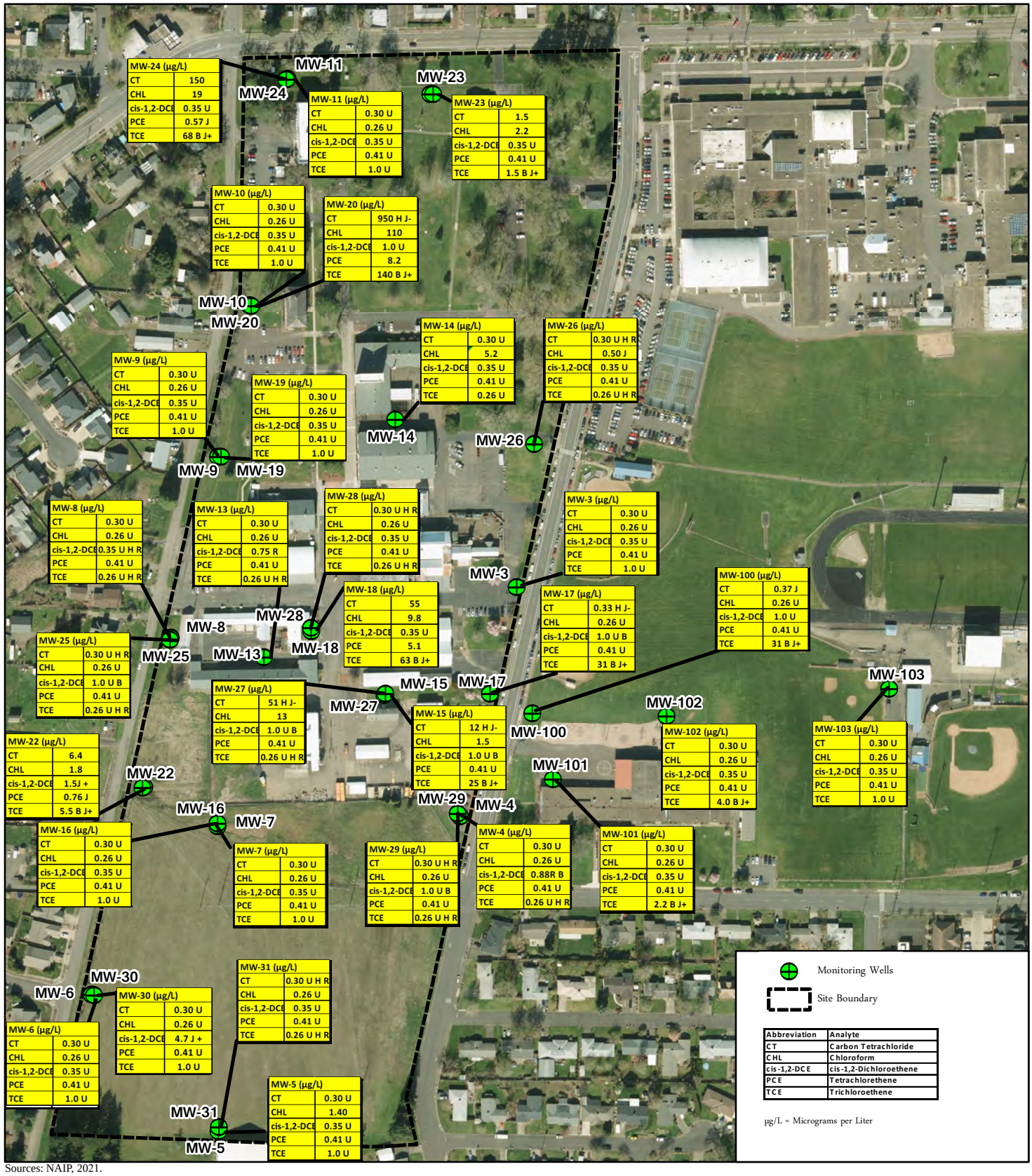
200 100 0 200 400
Feet

GROUNDWATER ELEVATION CONTOURS IN THE GRAVEL AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 4



Sources: NAIP, 2021.
Albany GIS, 2010.

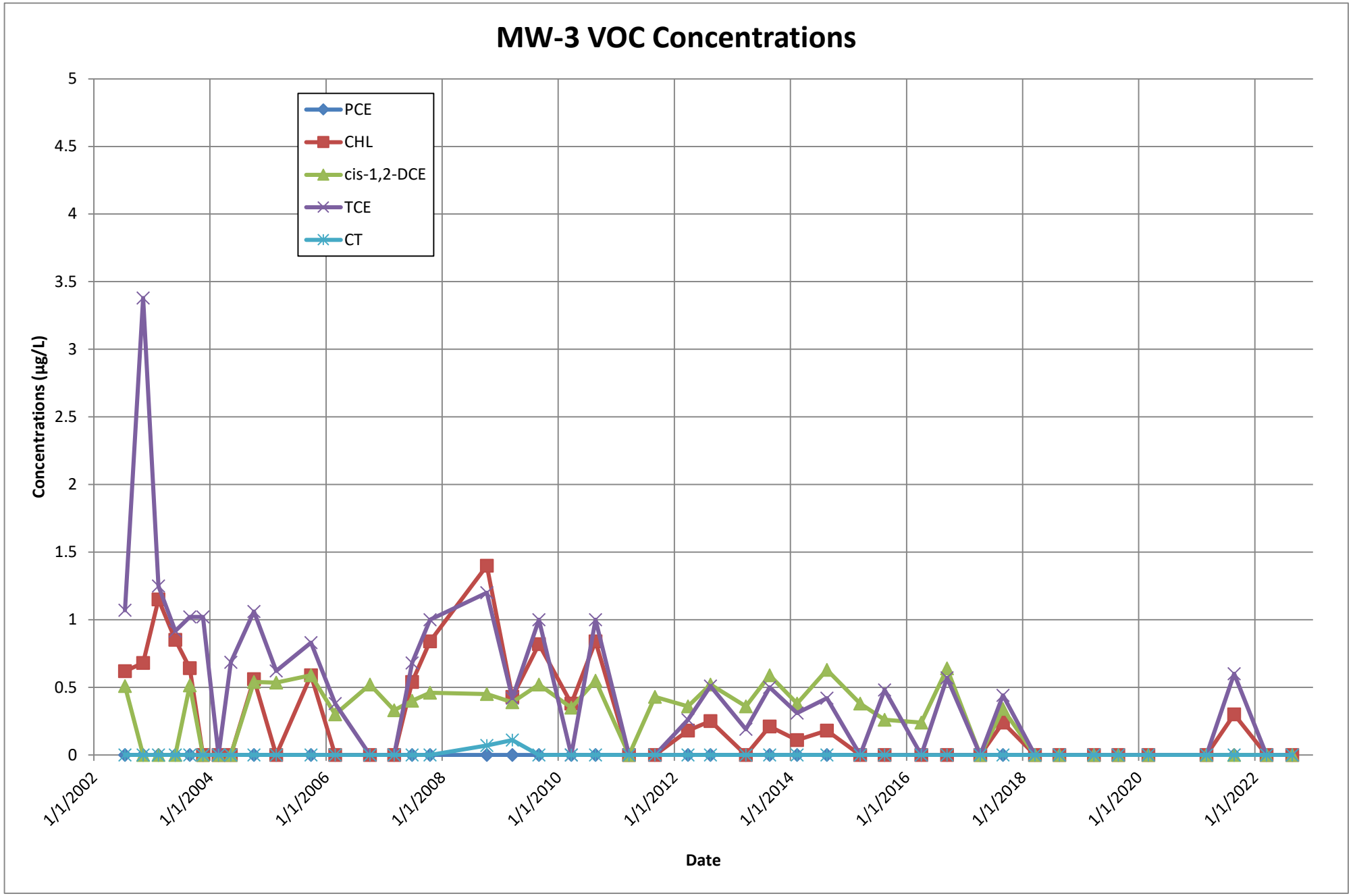
150 75 0 150 300
Feet

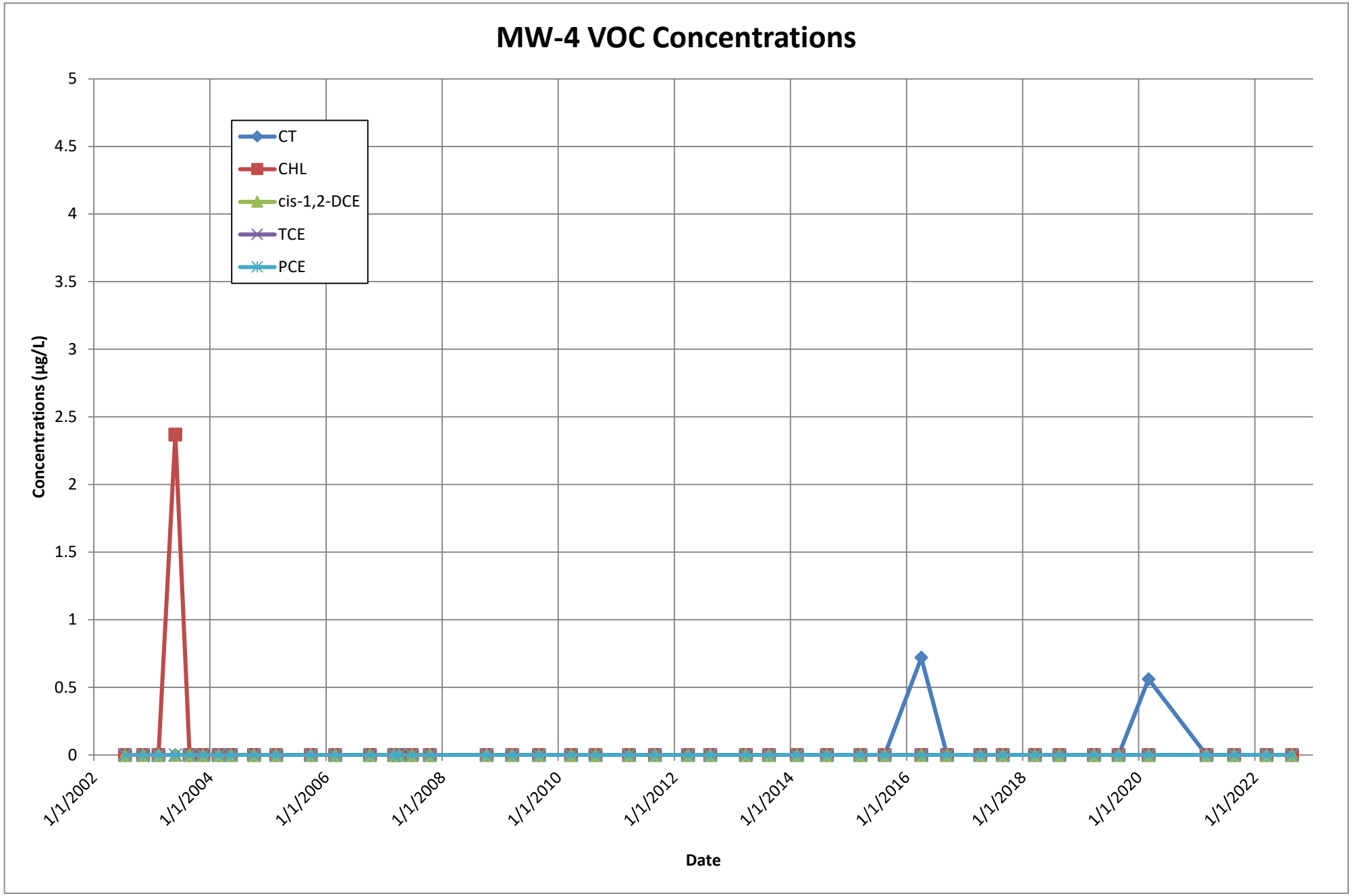
GROUNDWATER ANALYTICAL RESULTS AUGUST 2022

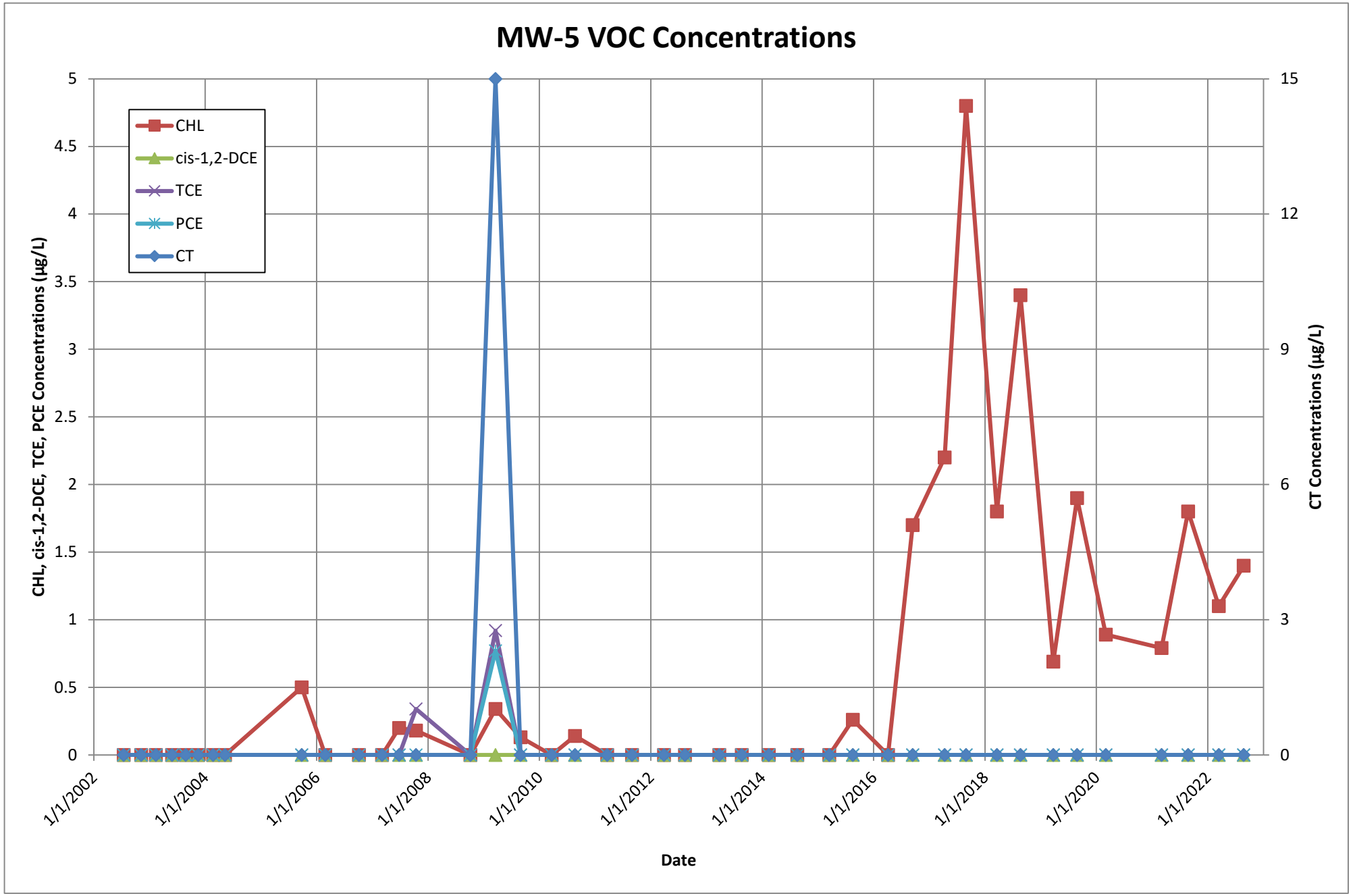
NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

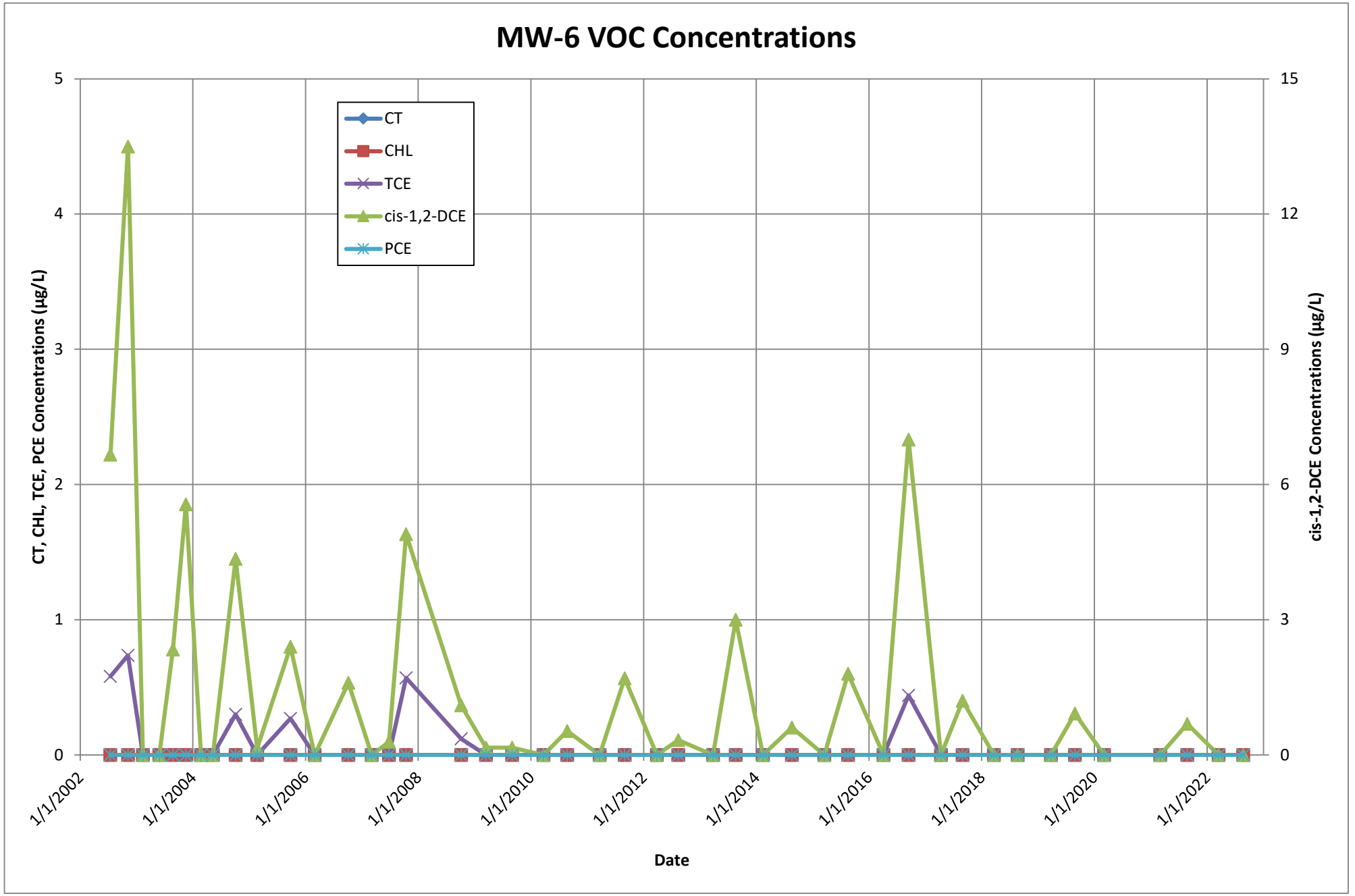
FIGURE 5

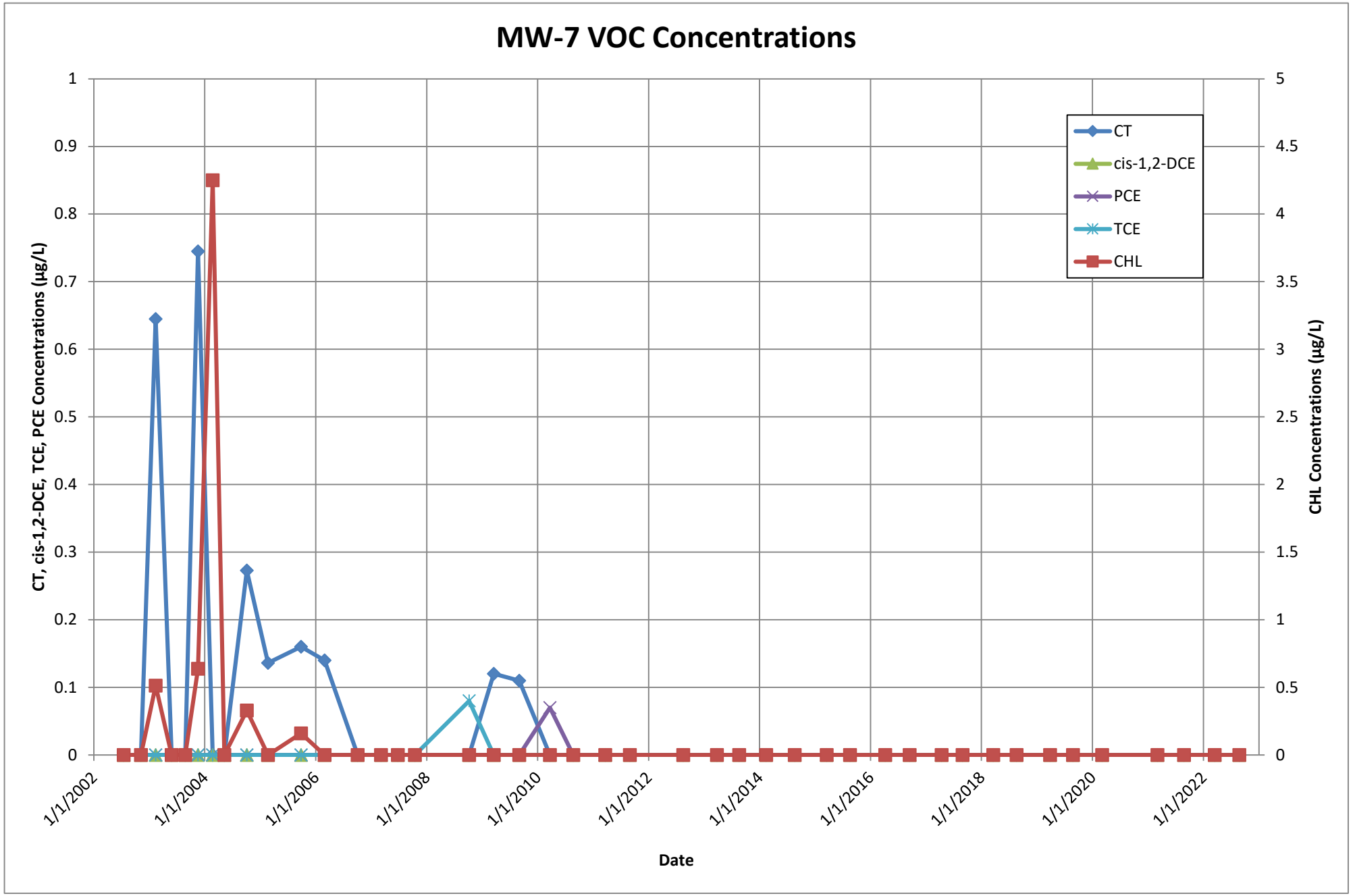
FIGURE 6

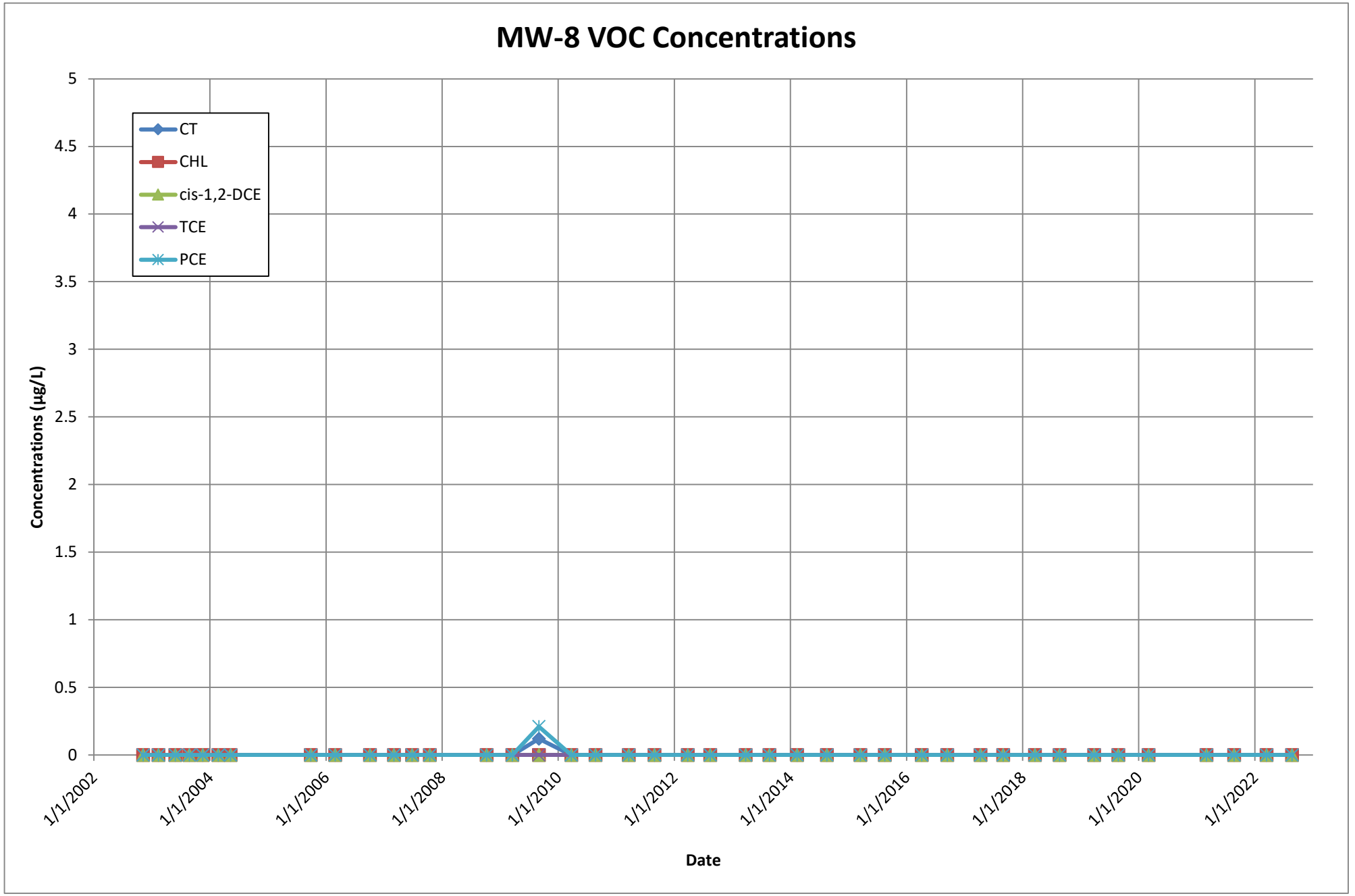

MW-3 VOC Concentrations
PCE
CHL
cis-1,2-DCE
TCE
CT
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

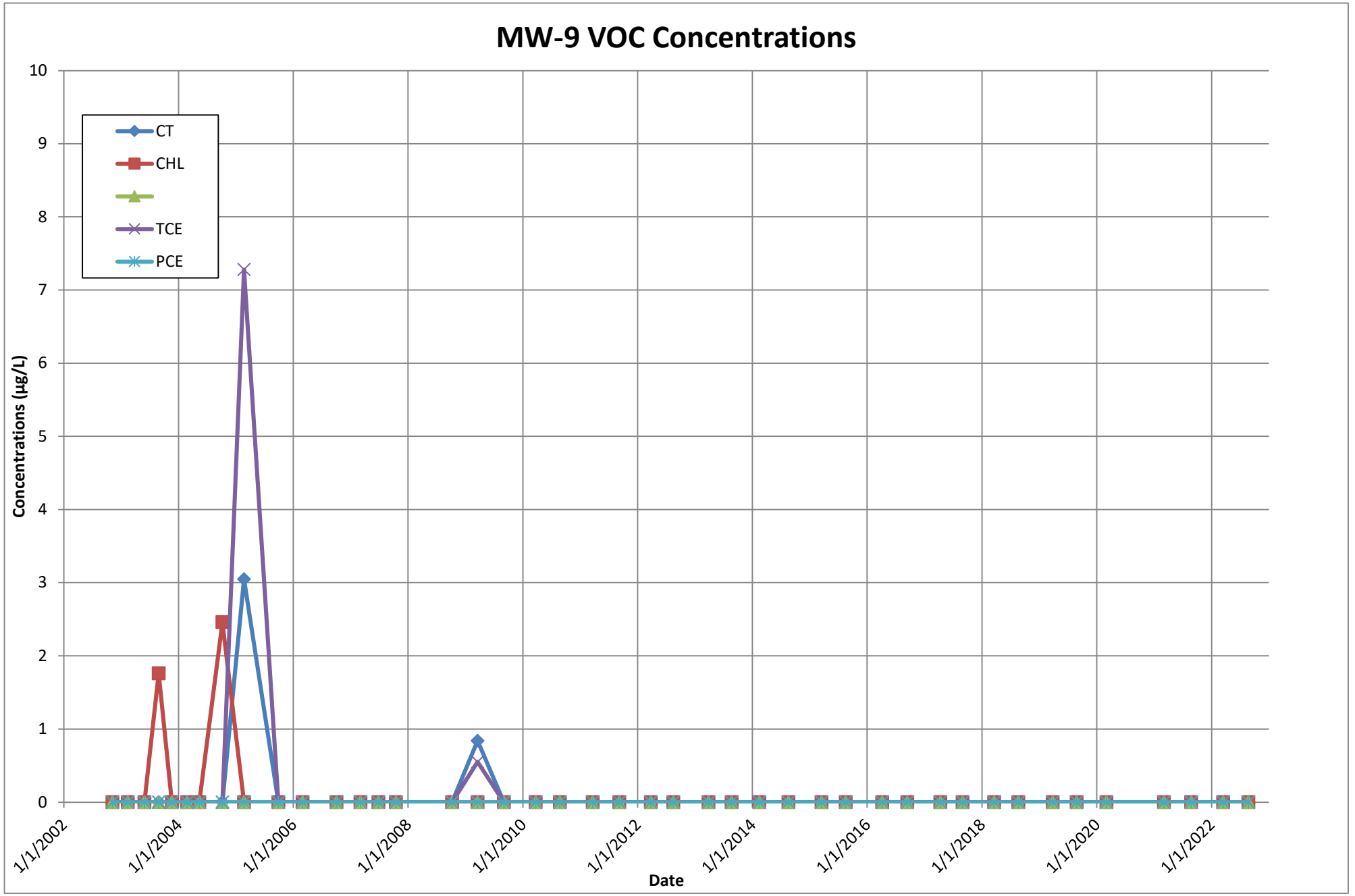

MW-4 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

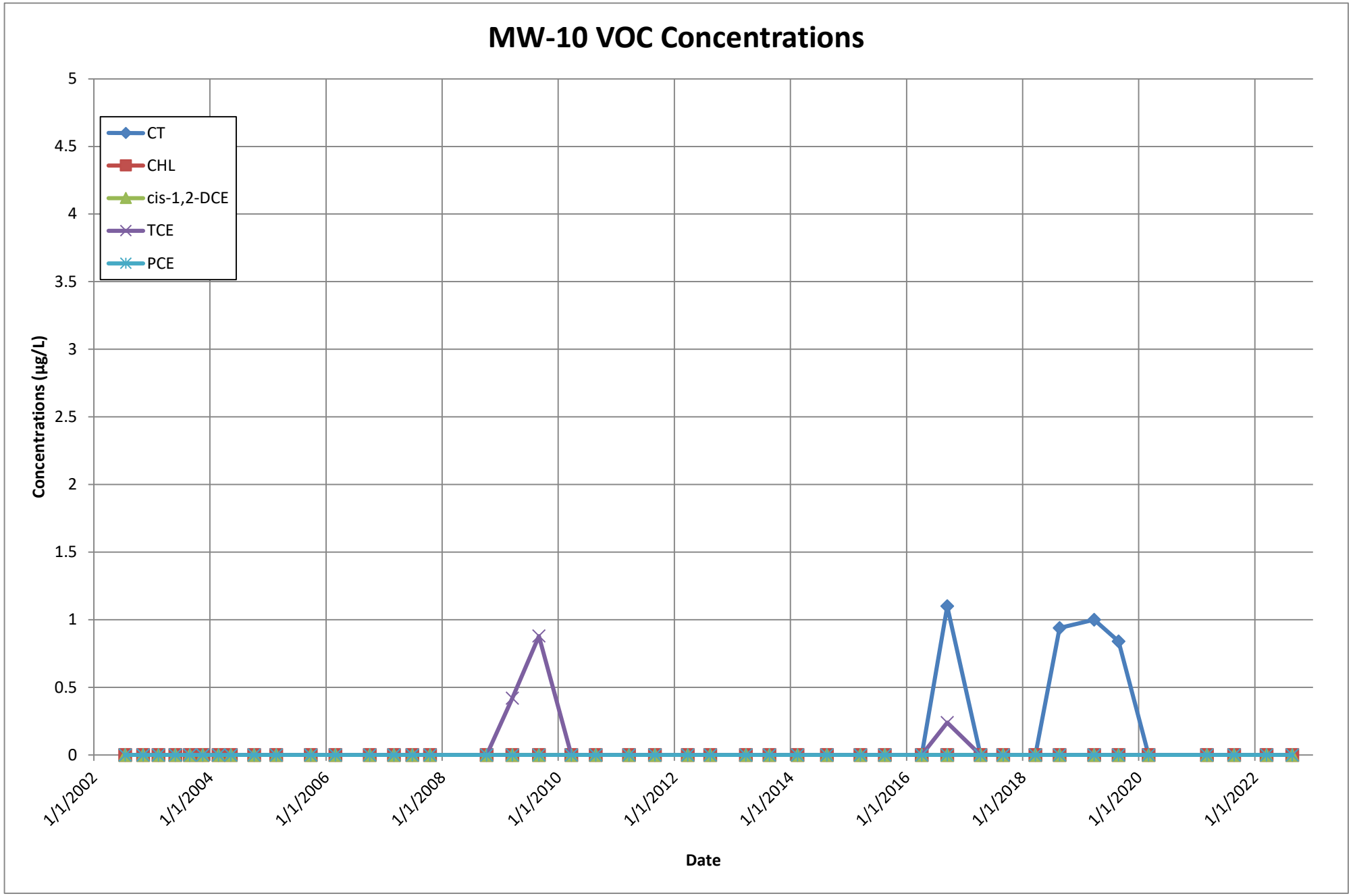

MW-5 VOC Concentrations
CHL
cis-1,2-DCE
TCE
PCE
CT
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
15
12
9
6
3
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

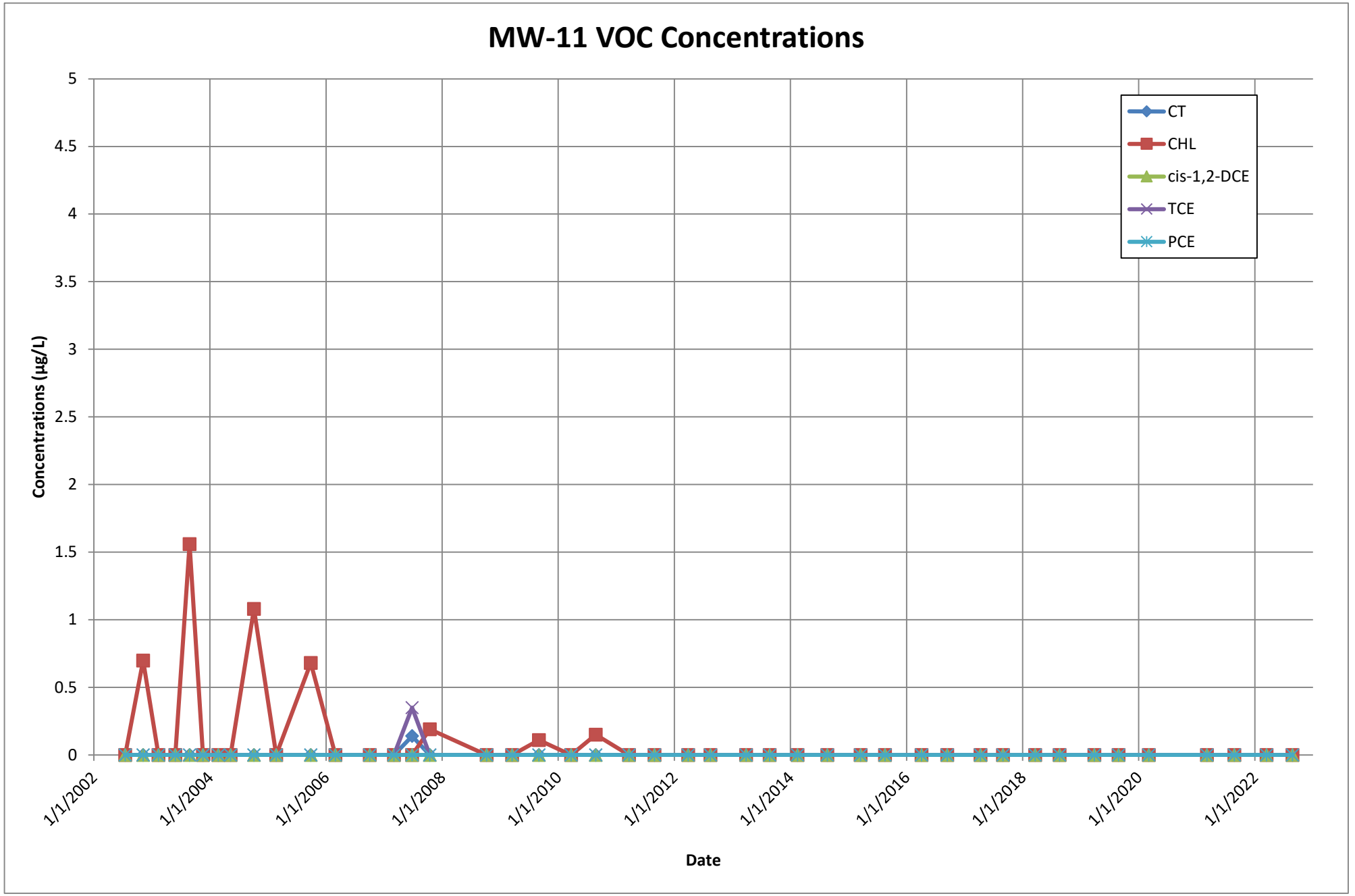

MW-6 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE, PCE Concentrations (µg/L)
cis-1,2-DCE Concentrations (µg/L)
0
1
2
3
4
5
0
3
6
9
12
15
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

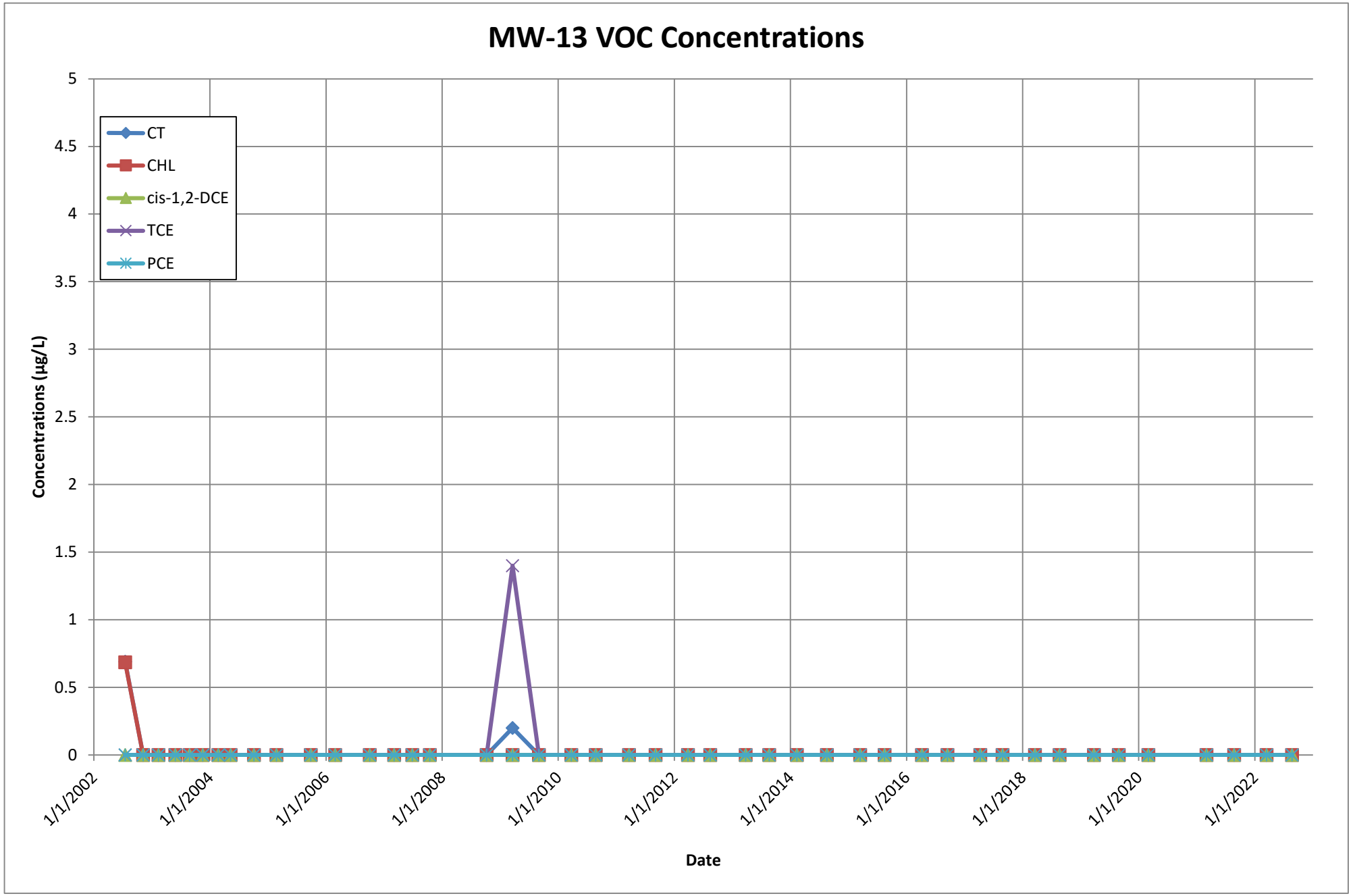

MW-7 VOC Concentrations
CT, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CHL Concentrations (µg/L)
Date
CT
cis-1,2-DCE
PCE
TCE
CHL
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

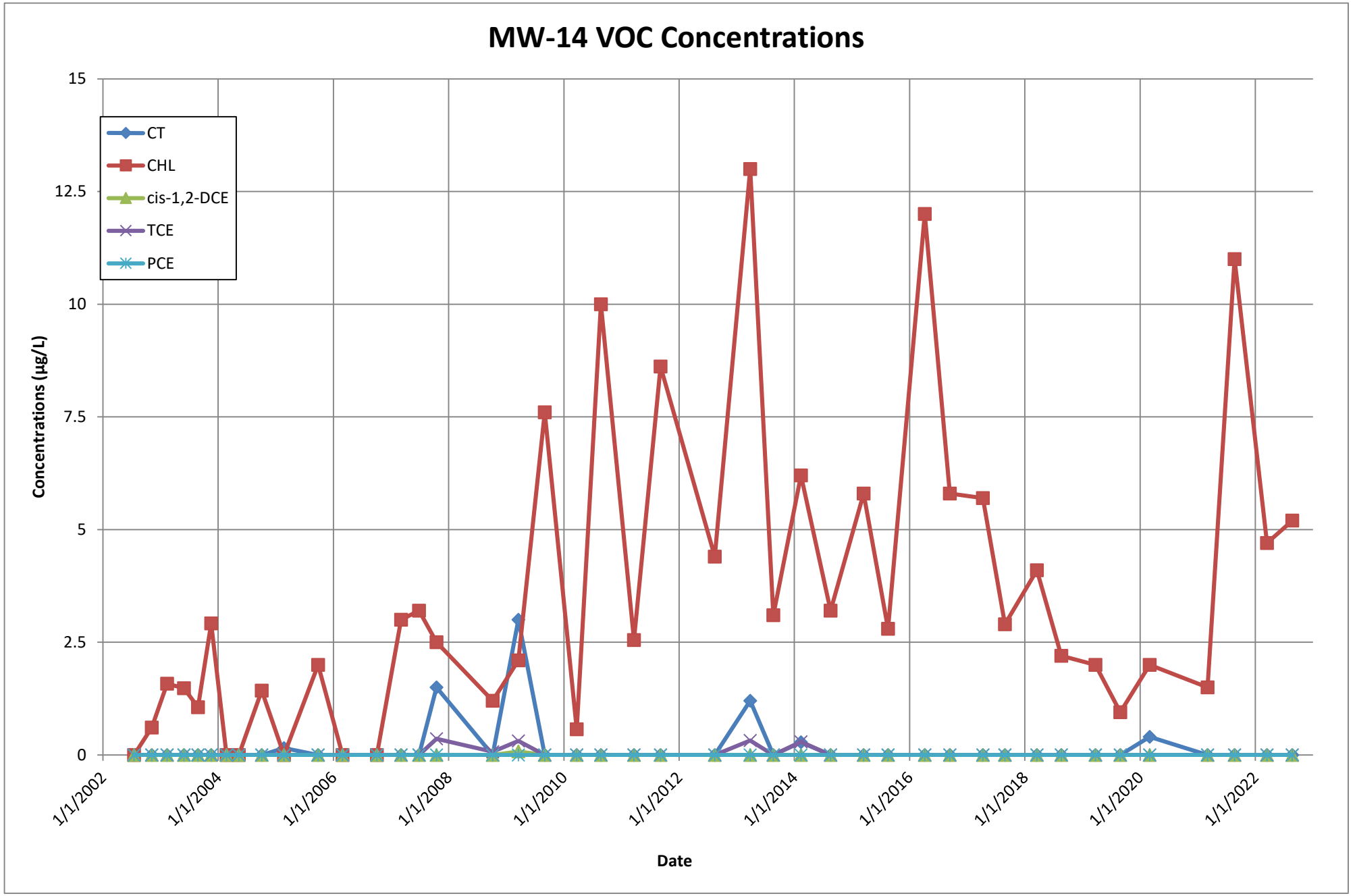

MW-8 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

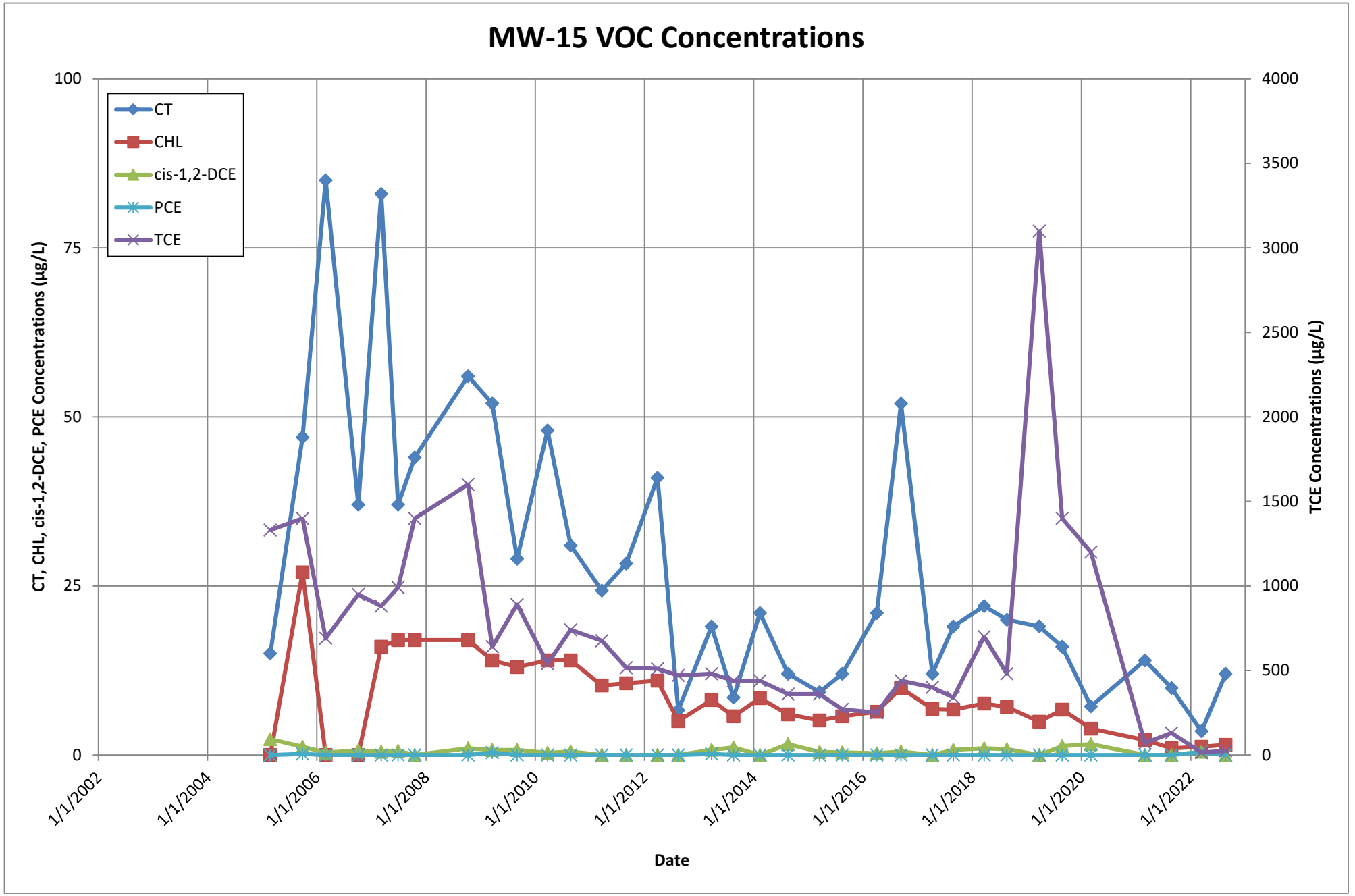

MW-9 VOC Concentrations
CT
CHL
TCE
PCE
Concentrations (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

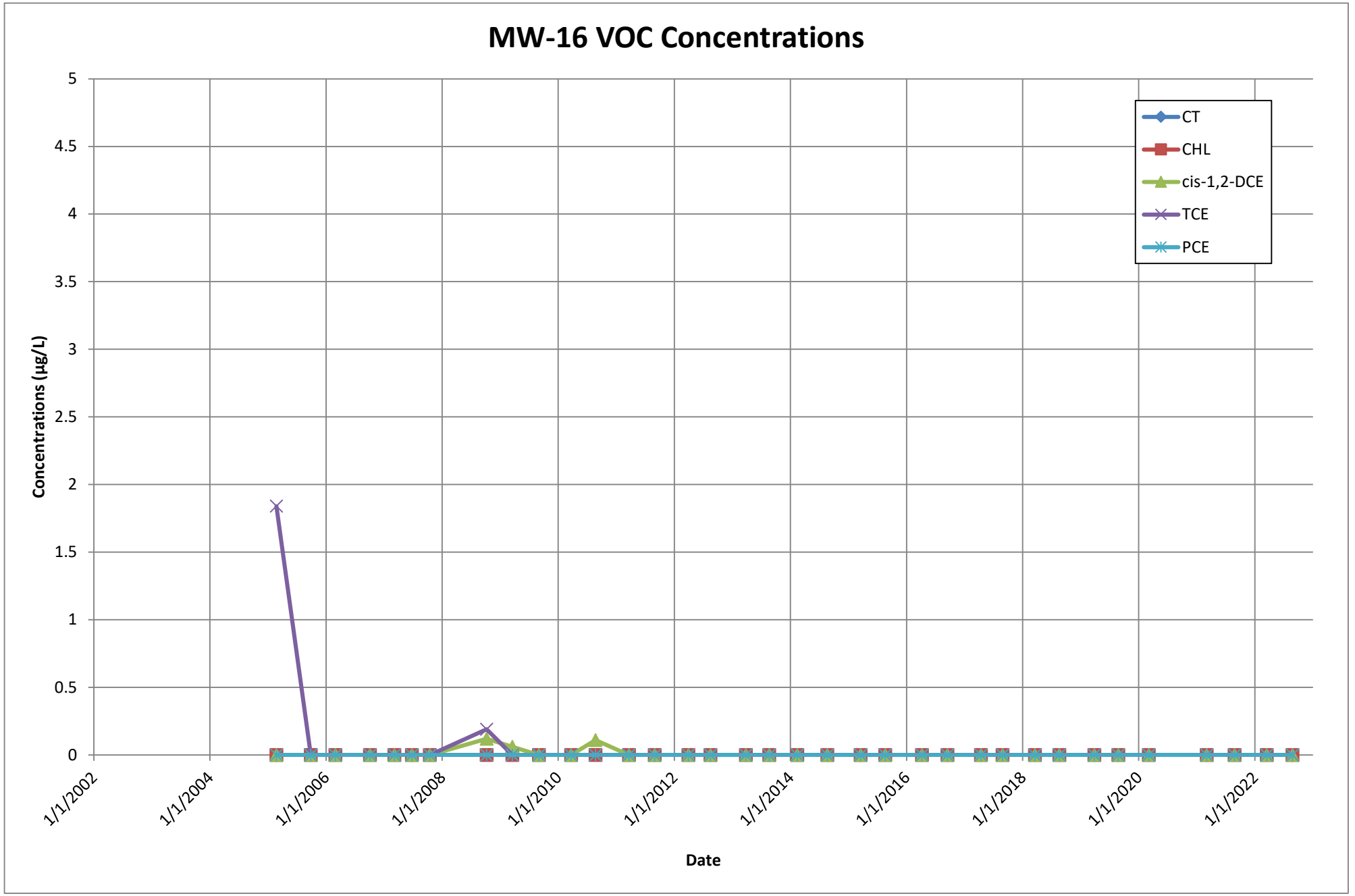

MW-10 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

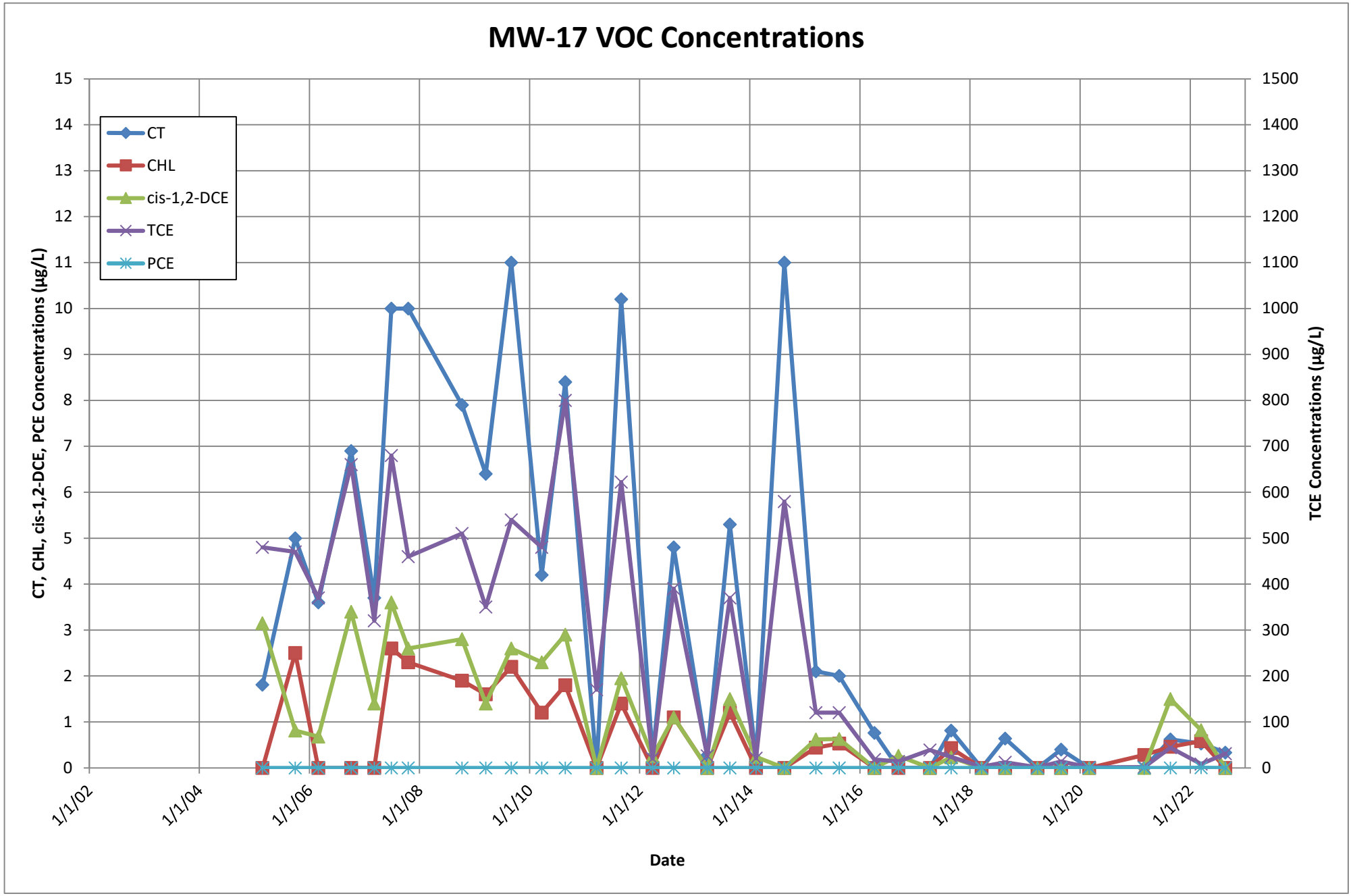

MW-11 VOC Concentrations
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

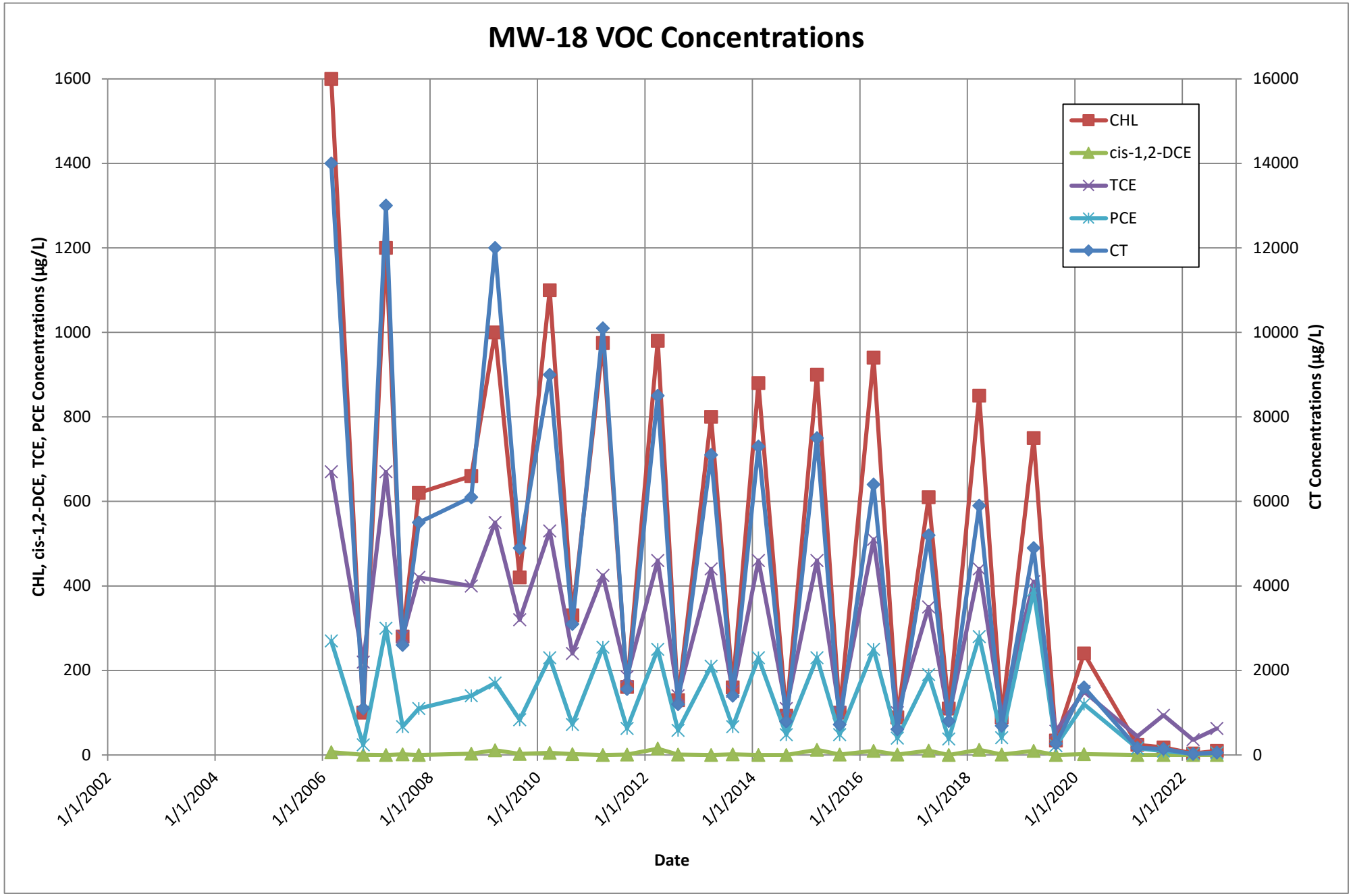

MW-13 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

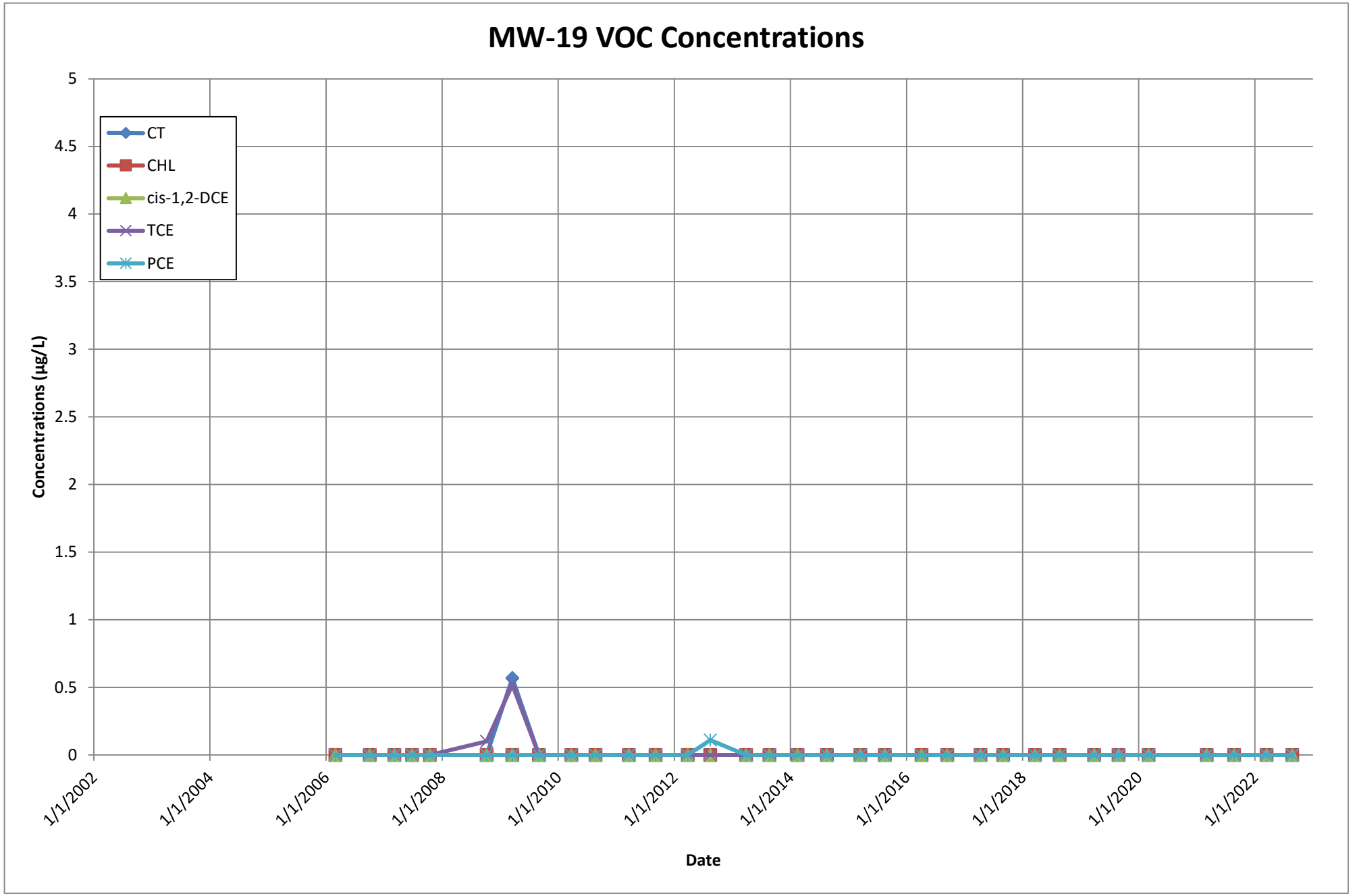

MW-14 VOC Concentrations
15
12.5
10
7.5
5
2.5
0
Concentrations (µg/L)
CT
CHL
cis-1,2-DCE
TCE
PCE
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

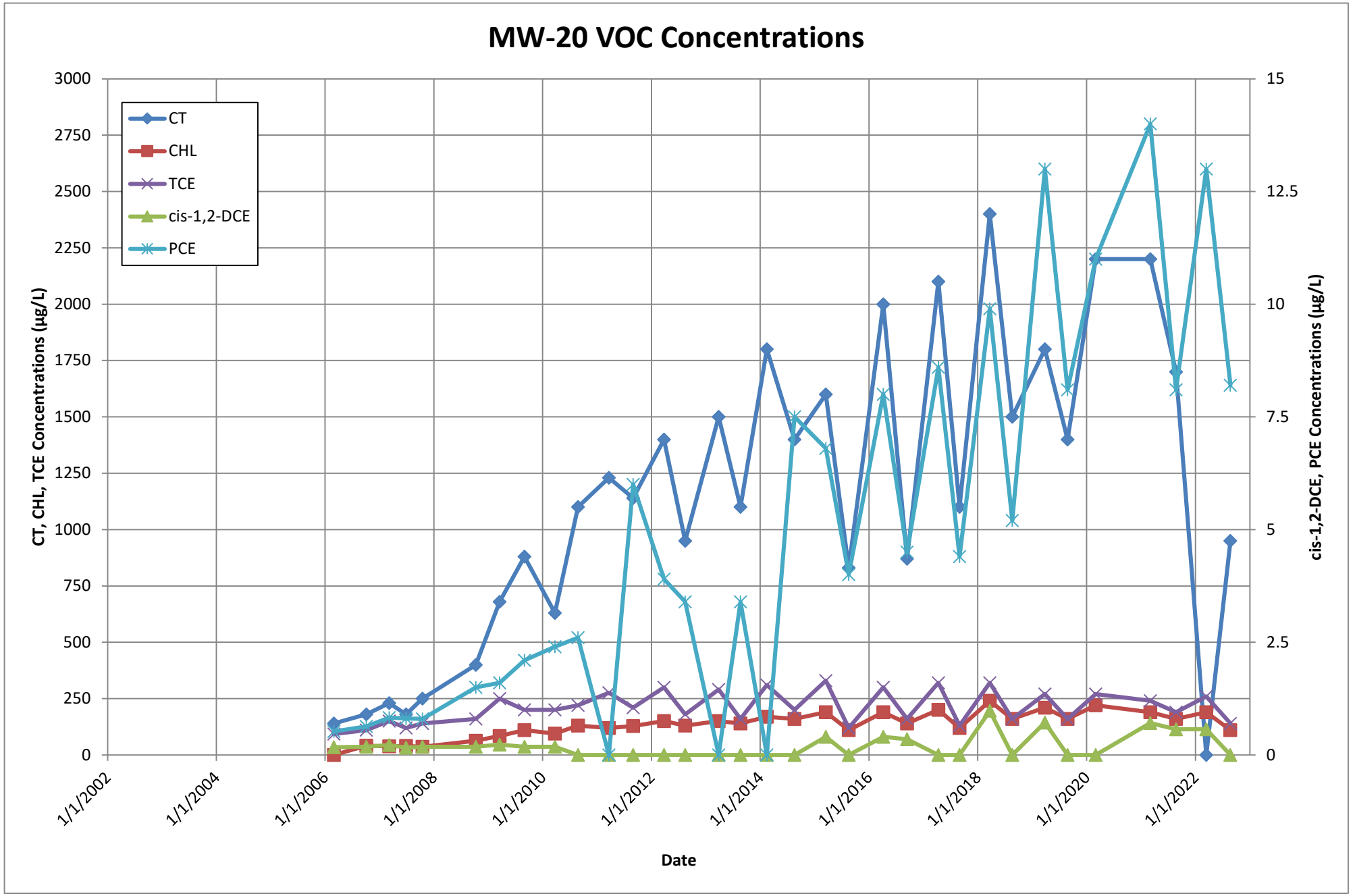

MW-15 VOC Concentrations
CT
CHL
cis-1,2-DCE
PCE
TCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
100
75
50
25
0
4000
3500
3000
2500
2000
1500
1000
500
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

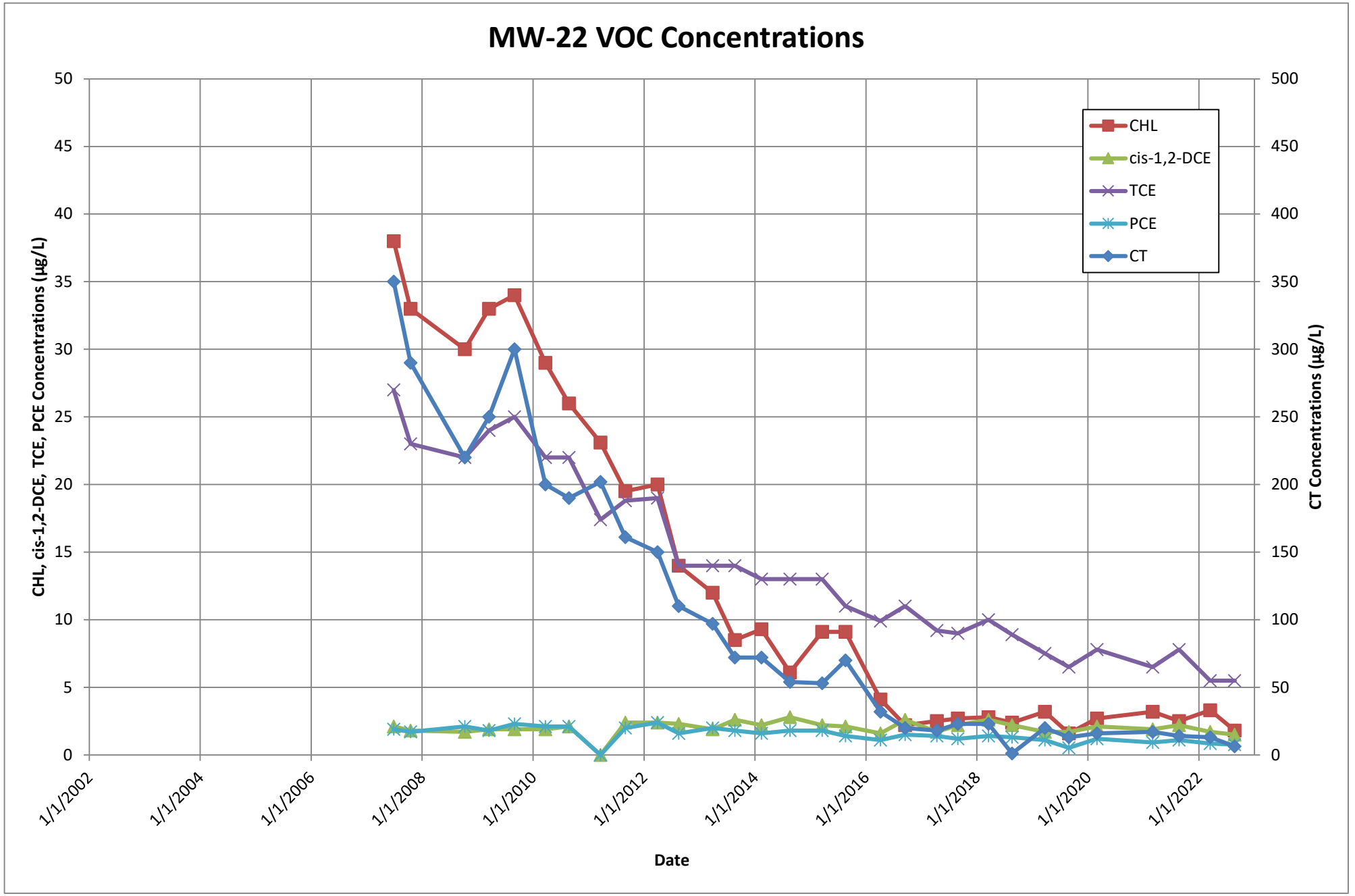

MW-16 VOC Concentrations
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

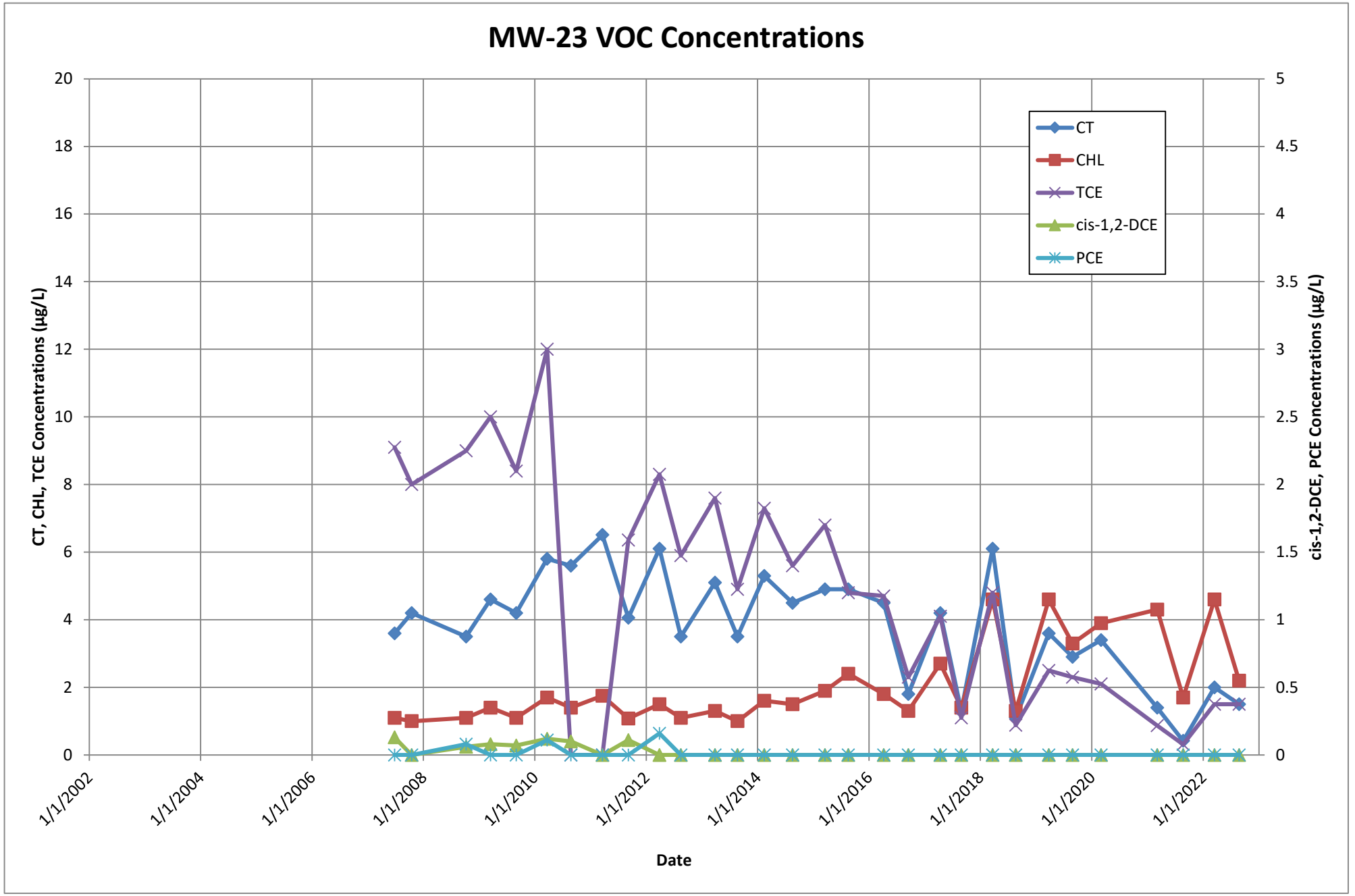

MW-17 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
CT, CHL, cis-1,2-DCE, PCE Concentrations (µg/L)
TCE Concentrations (µg/L)
Date
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1/1/02
1/1/04
1/1/06
1/1/08
1/1/10
1/1/12
1/1/14
1/1/16
1/1/18
1/1/20
1/1/22

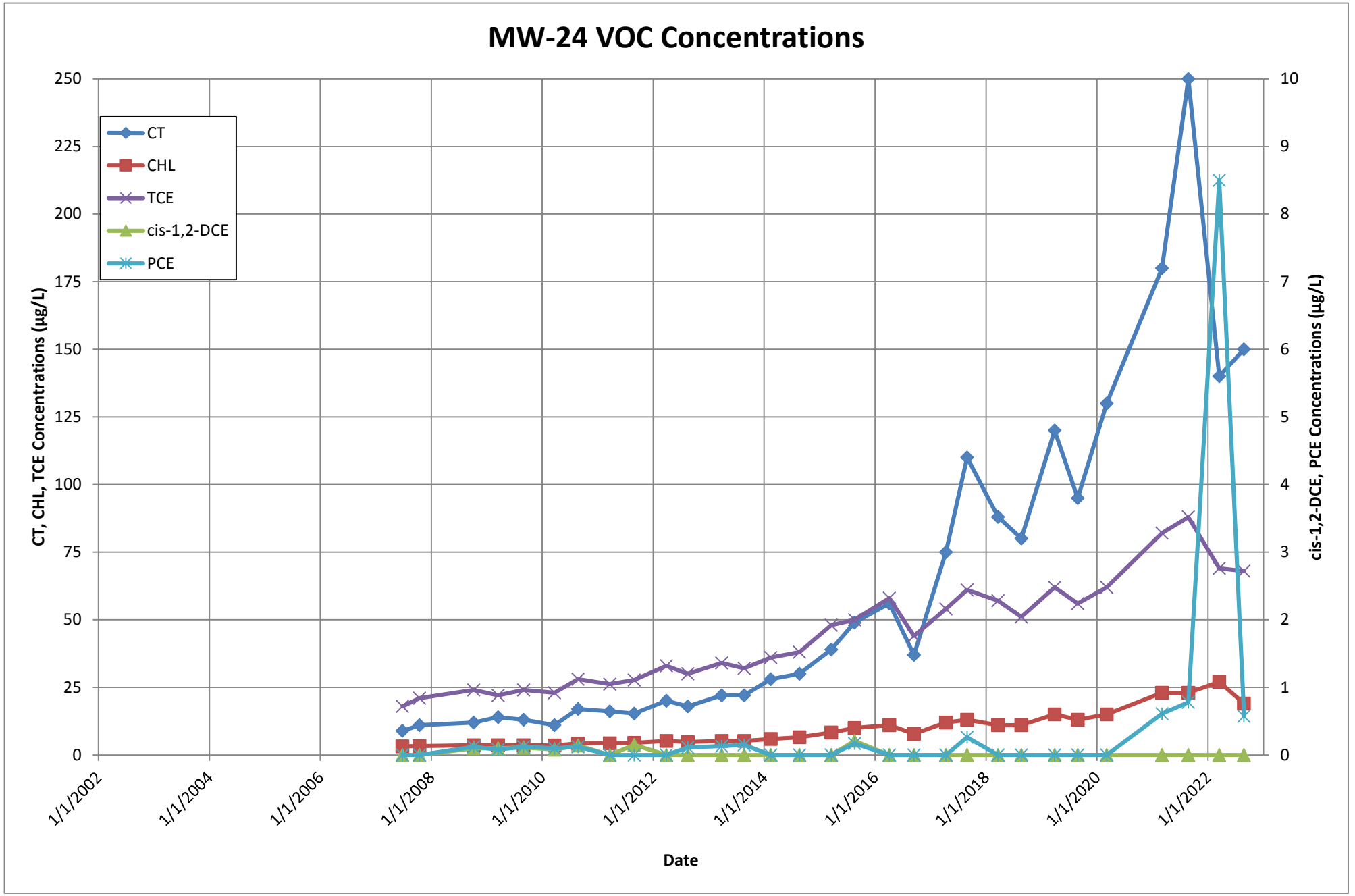

MW-18 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
200
400
600
800
1000
1200
1400
1600
2000
4000
6000
8000
10000
12000
14000
16000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020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

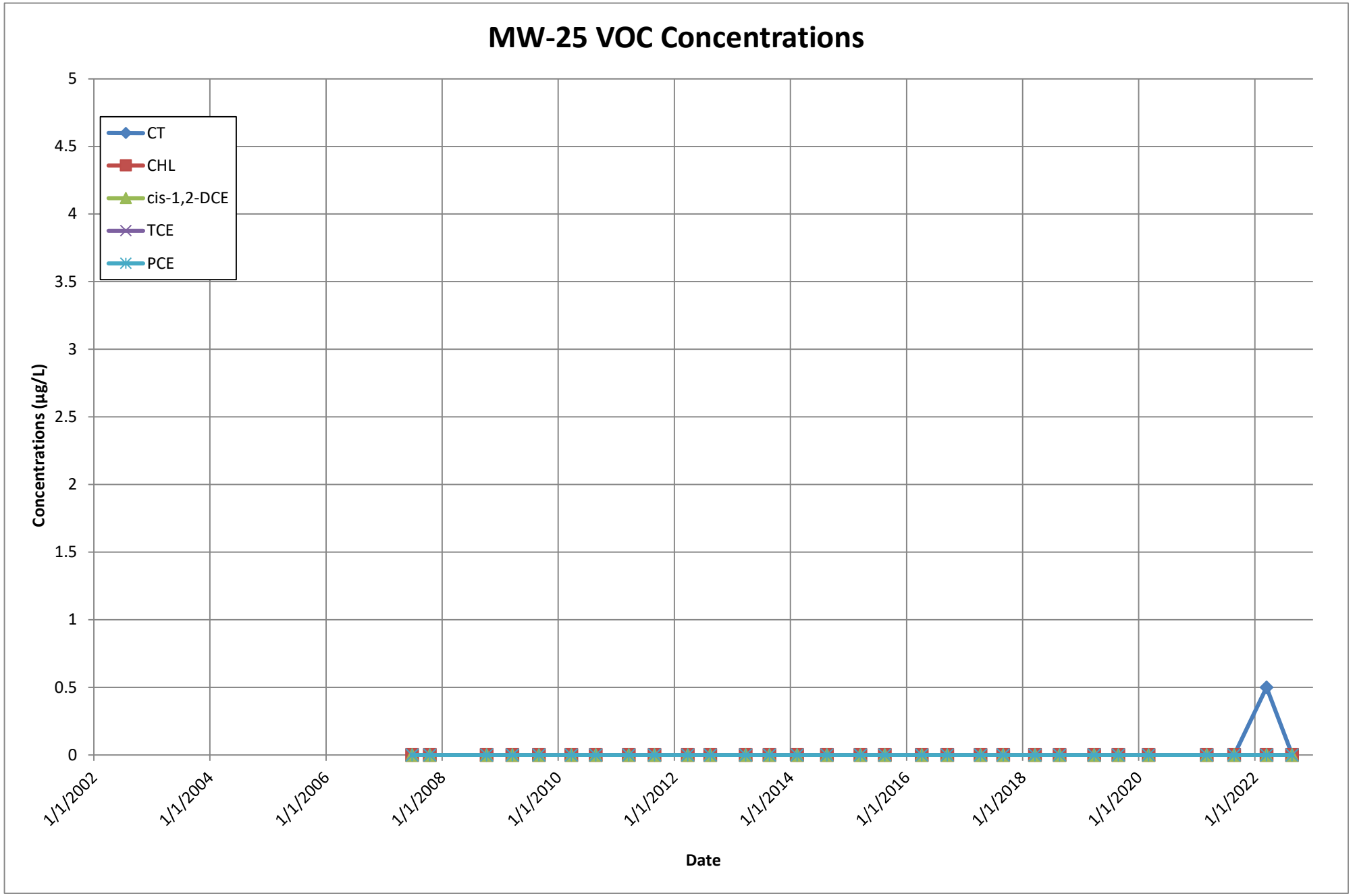

MW-19 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

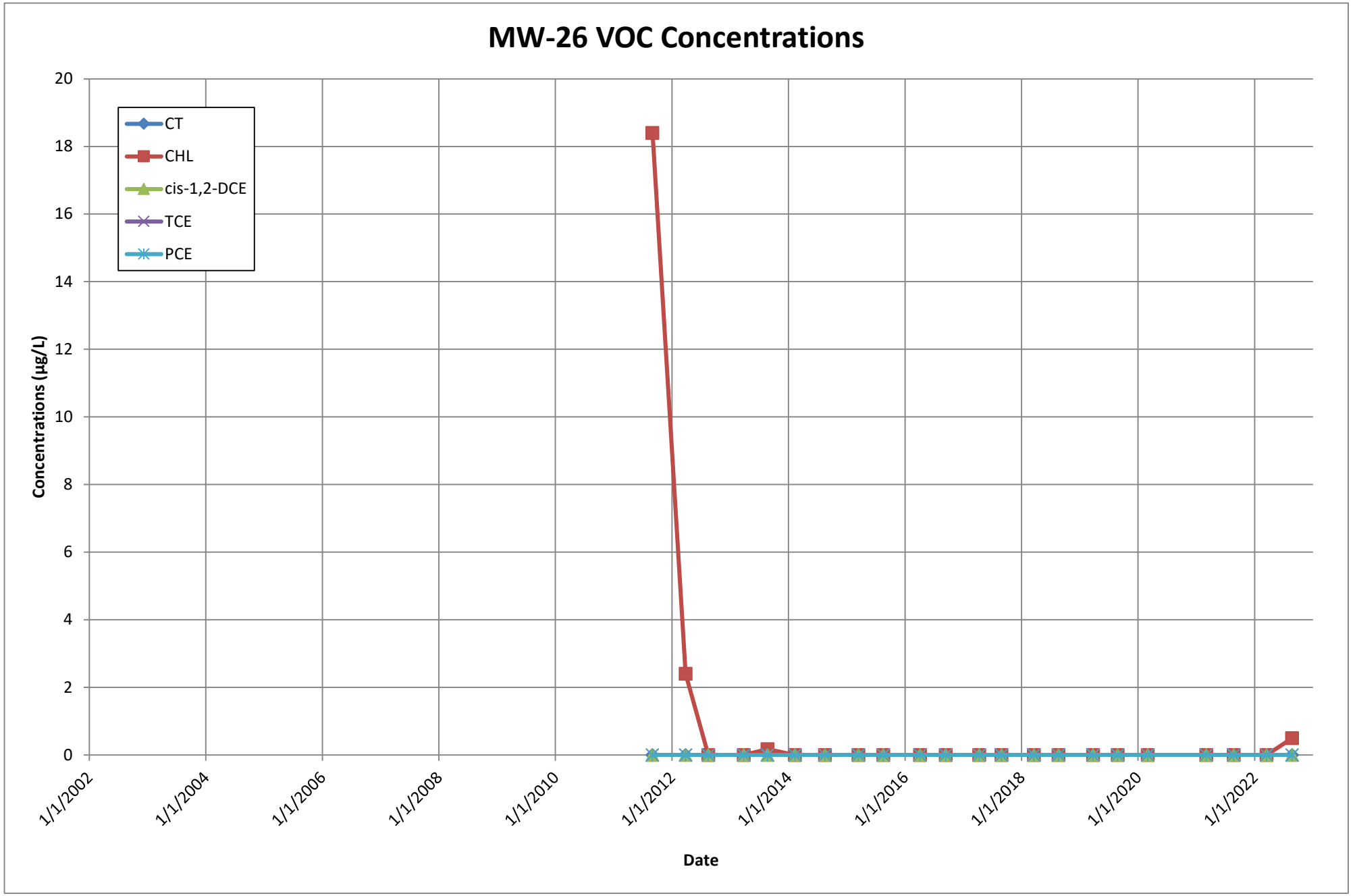

MW-20 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
15
12.5
10
7.5
5
2.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

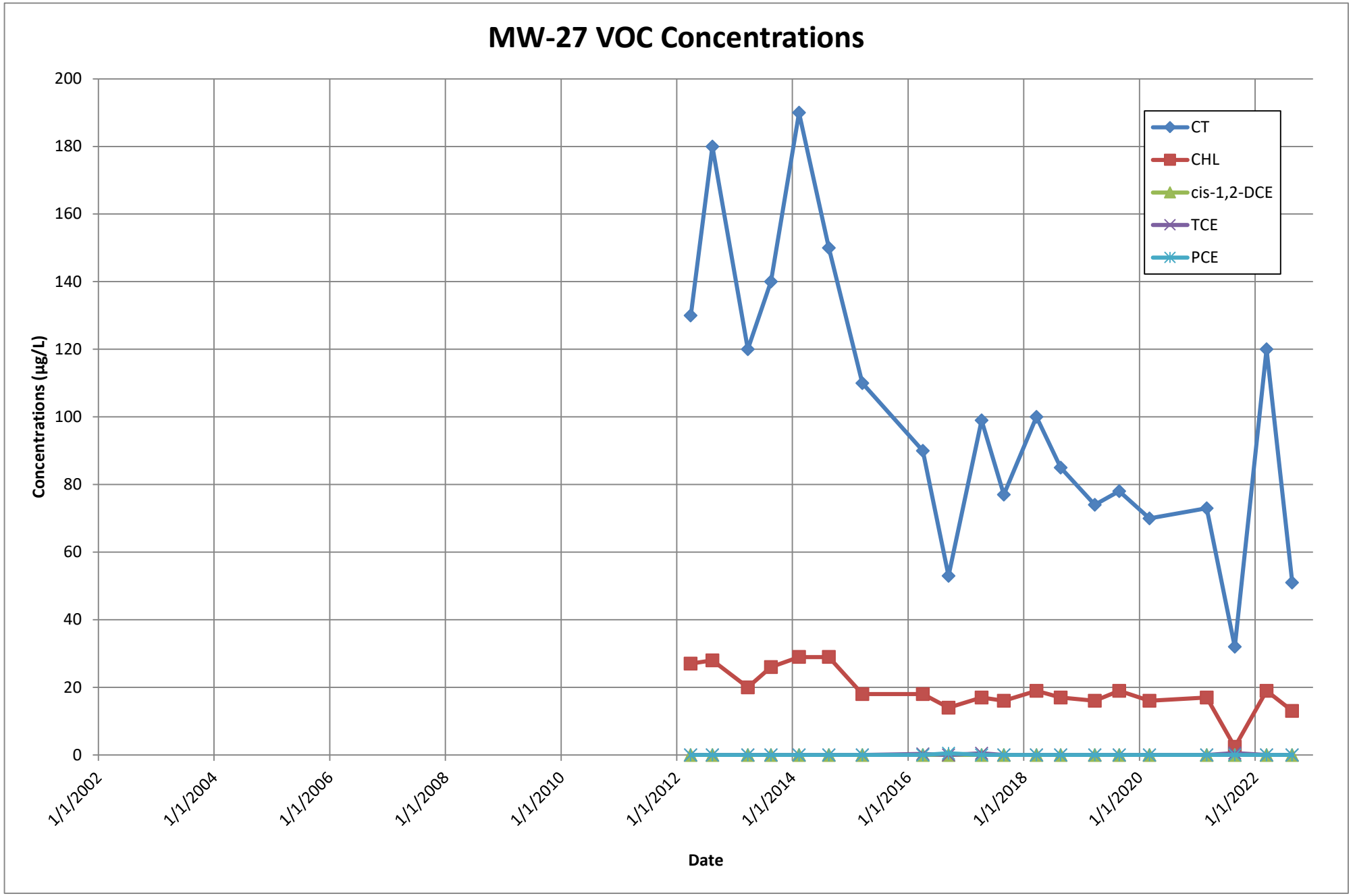

MW-22 VOC Concentrations
CHL, cis-1,2-DCE, TCE, PCE Concentrations (µg/L)
CT Concentrations (µg/L)
Date
CHL
cis-1,2-DCE
TCE
PCE
CT
0
5
10
15
20
25
30
35
40
45
50
0
50
100
150
200
250
300
350
400
450
500
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

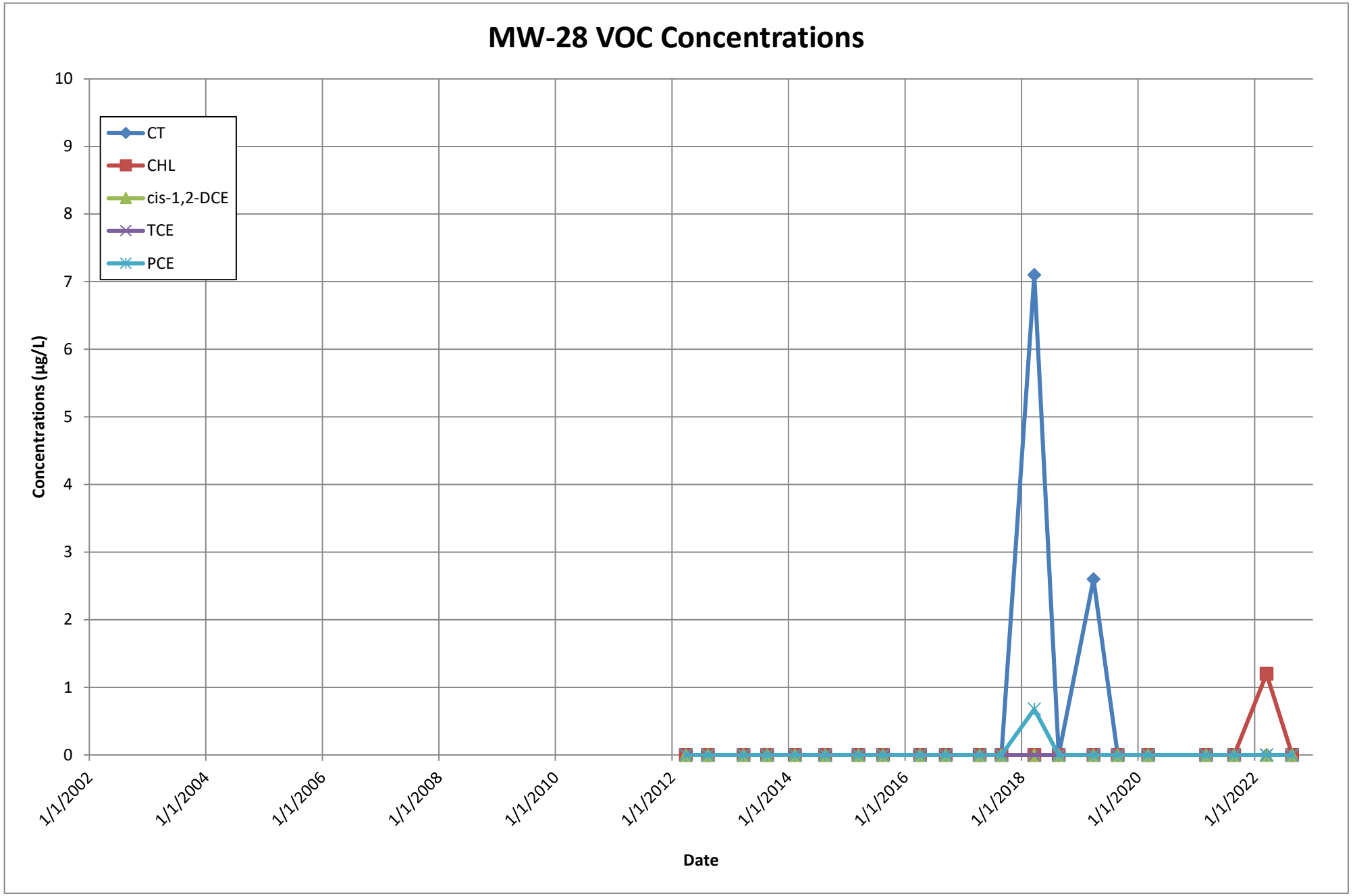

MW-23 VOC Concentrations
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
CT
CHL
TCE
cis-1,2-DCE
PCE
0
2
4
6
8
10
12
14
16
18
20
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

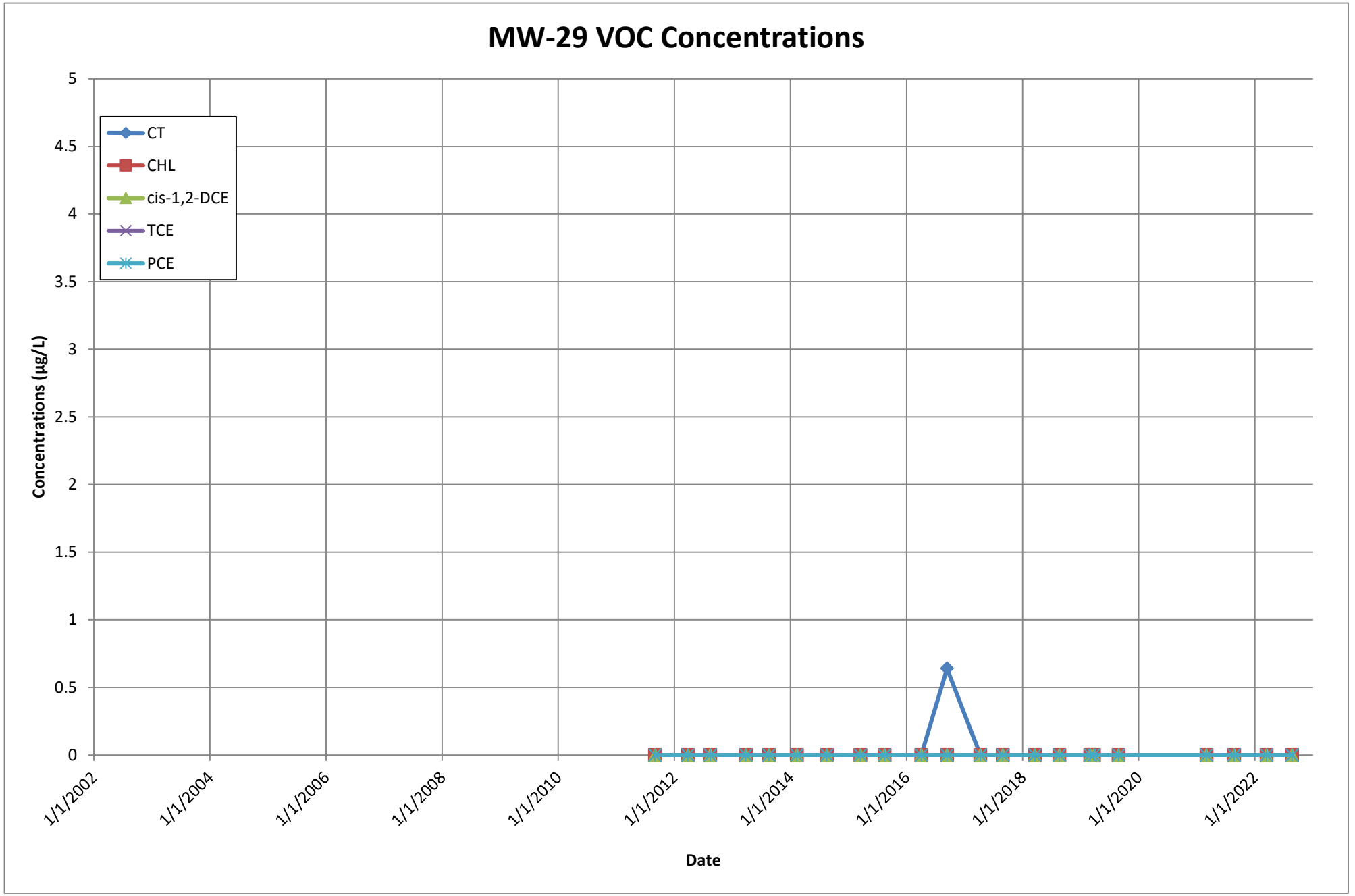

MW-24 VOC Concentrations
CT
CHL
TCE
cis-1,2-DCE
PCE
CT, CHL, TCE Concentrations (µg/L)
cis-1,2-DCE, PCE Concentrations (µg/L)
Date
250
225
200
175
150
125
100
75
50
25
0
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022

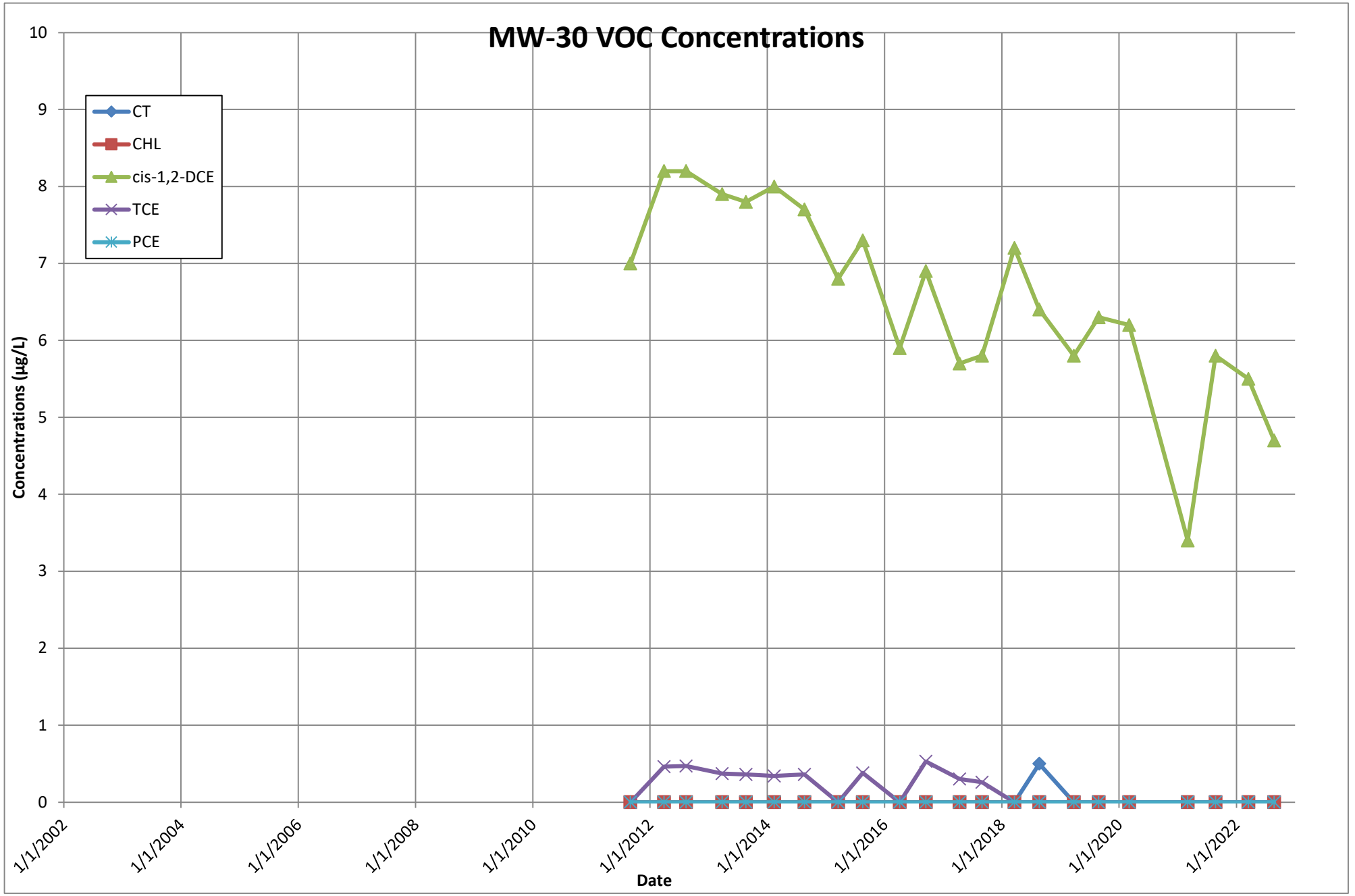

MW-25 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

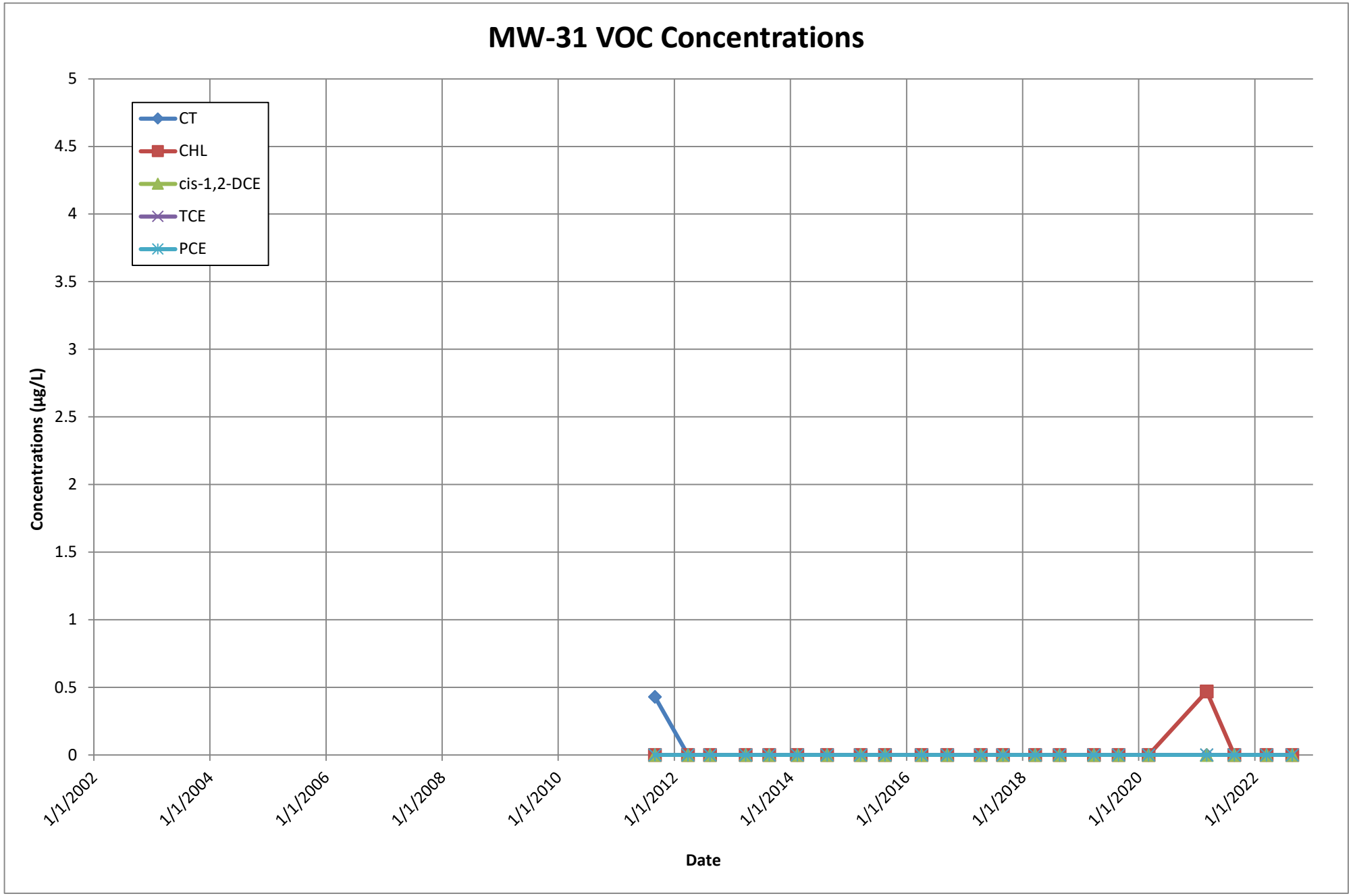

MW-26 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
20
18
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

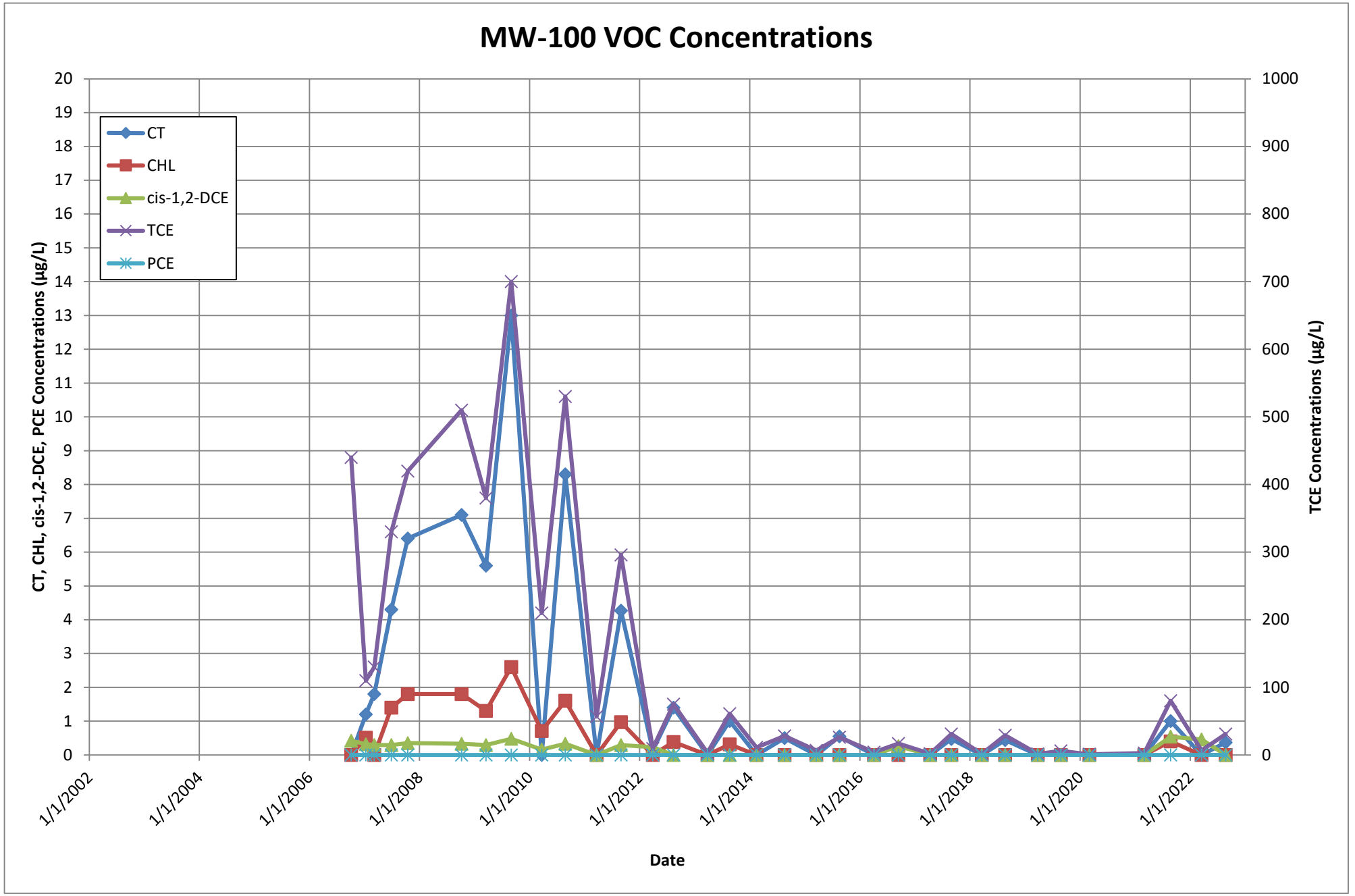

MW-27 VOC Concentrations
Concentrations (µg/L)
200
180
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date
CT
CHL
cis-1,2-DCE
TCE
PCE

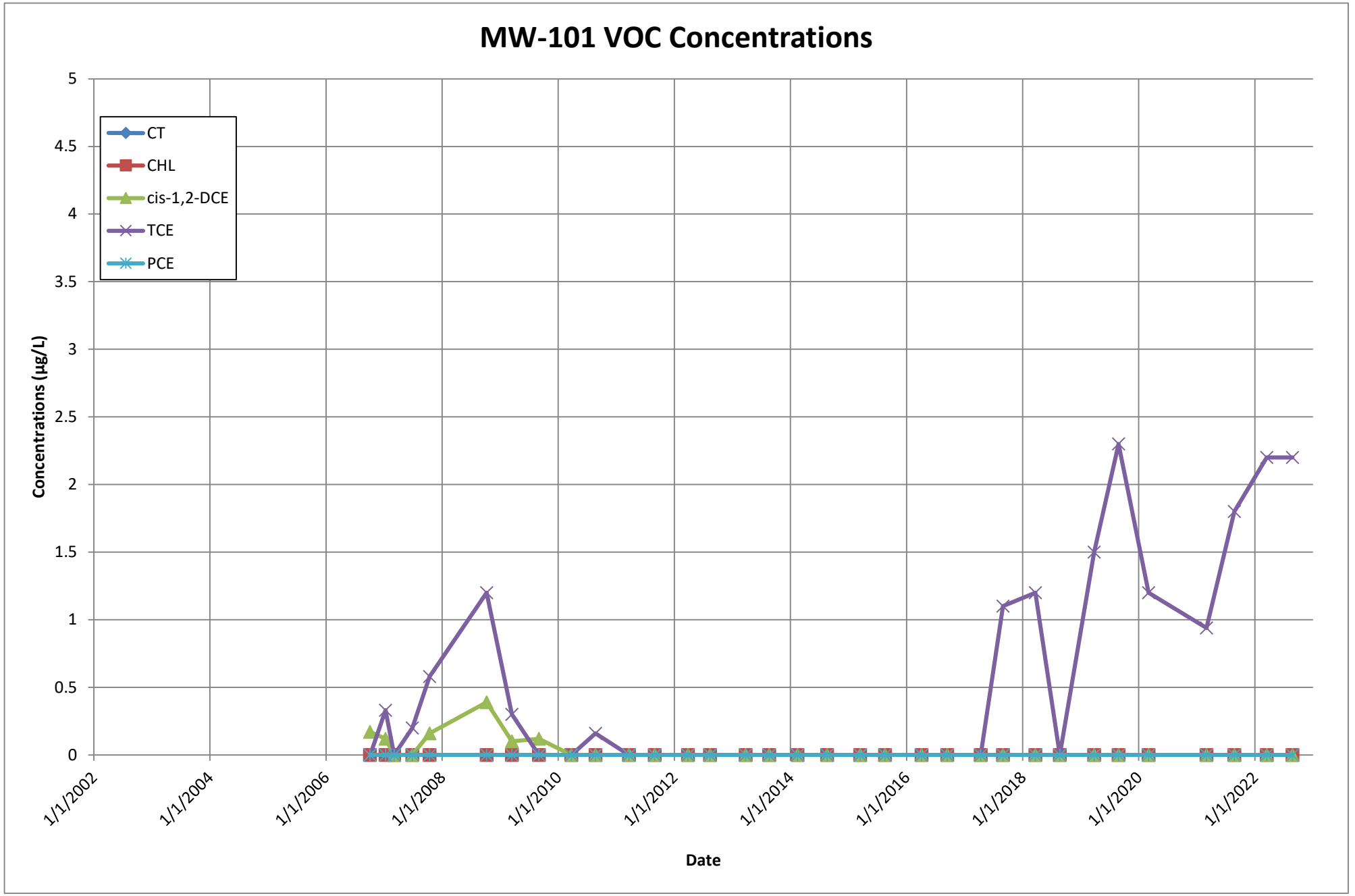

MW-28 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
10
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

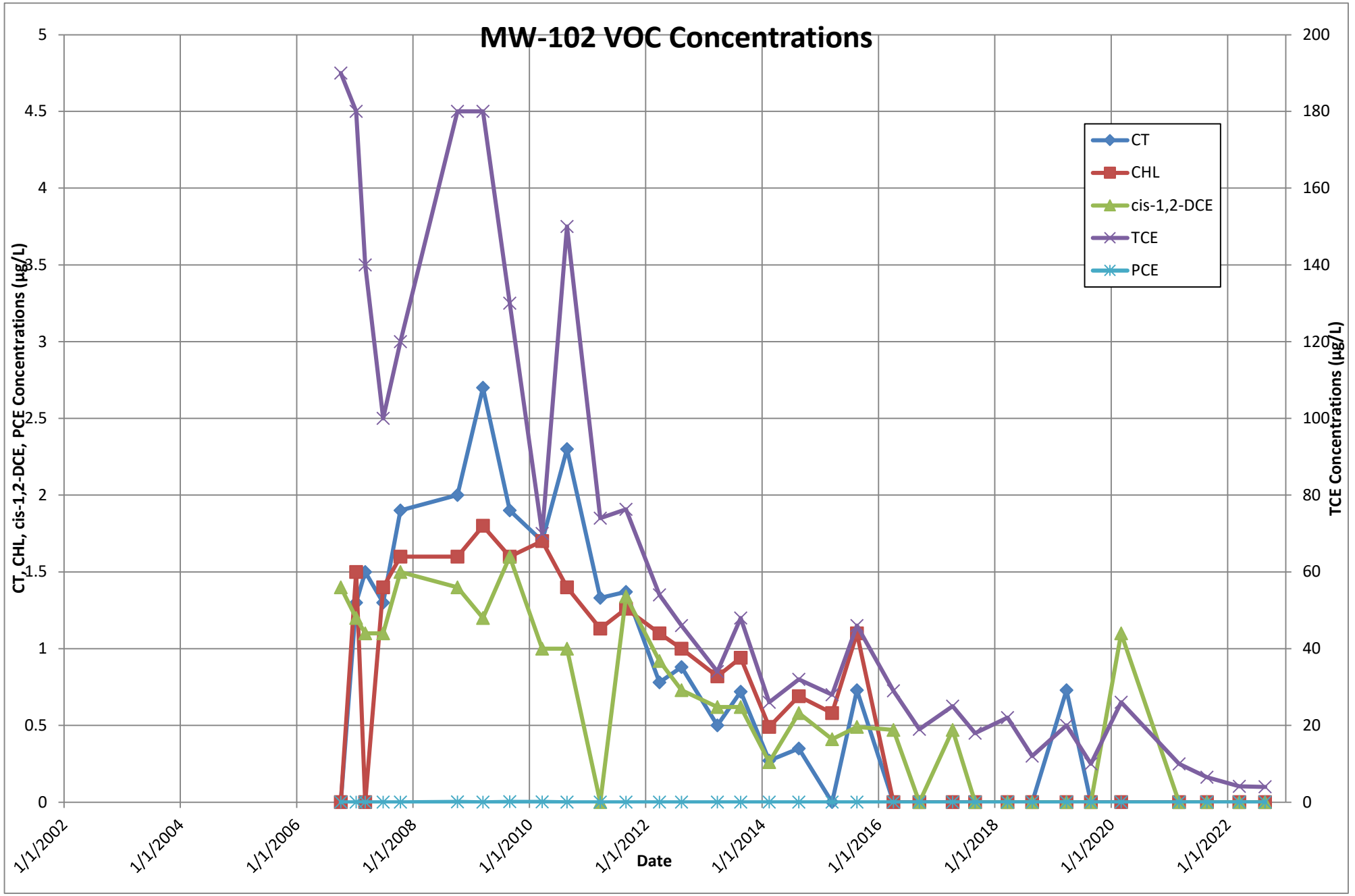

MW-29 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

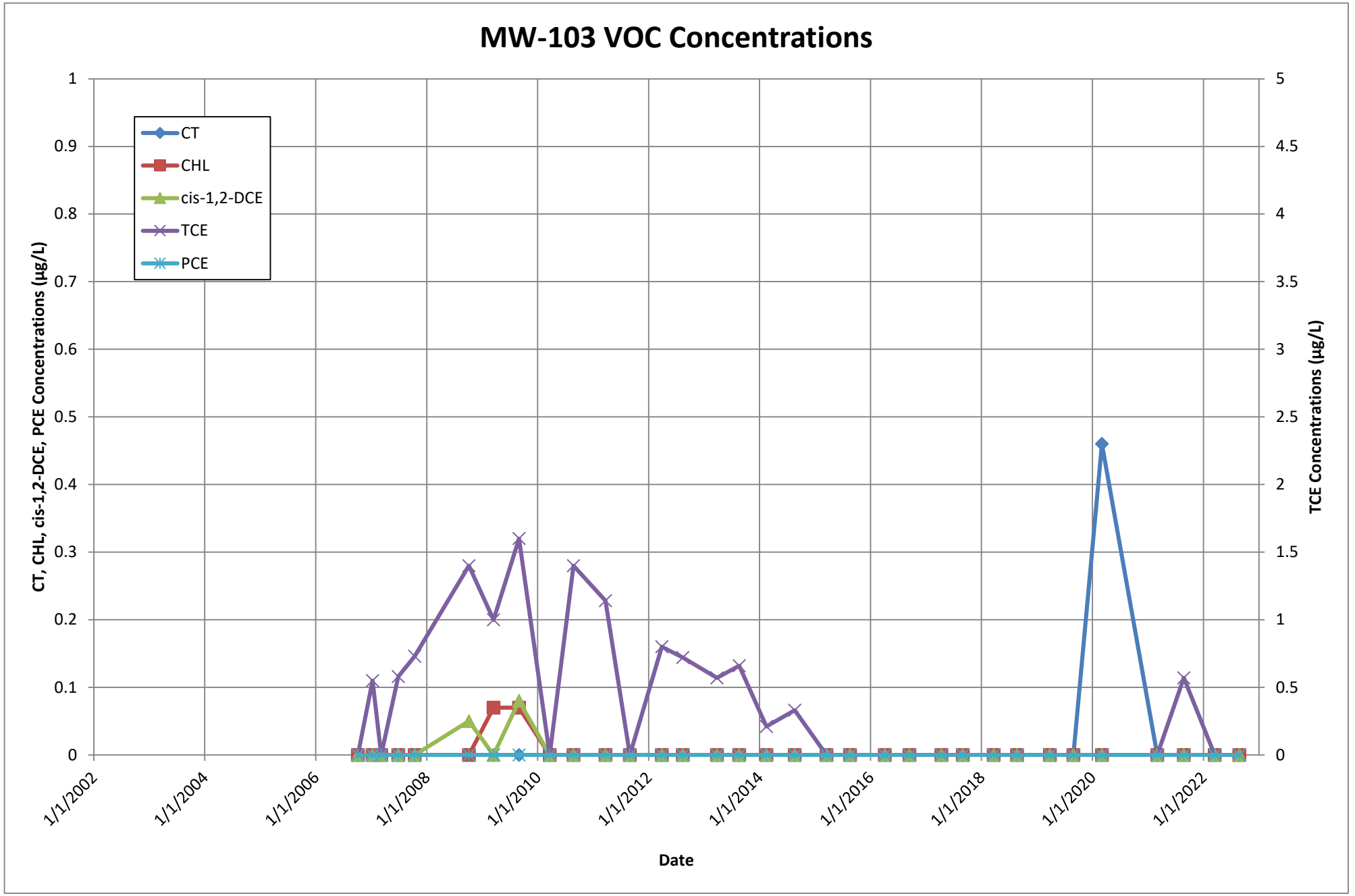

MW-30 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
0
1
2
3
4
5
6
7
8
9
10
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date

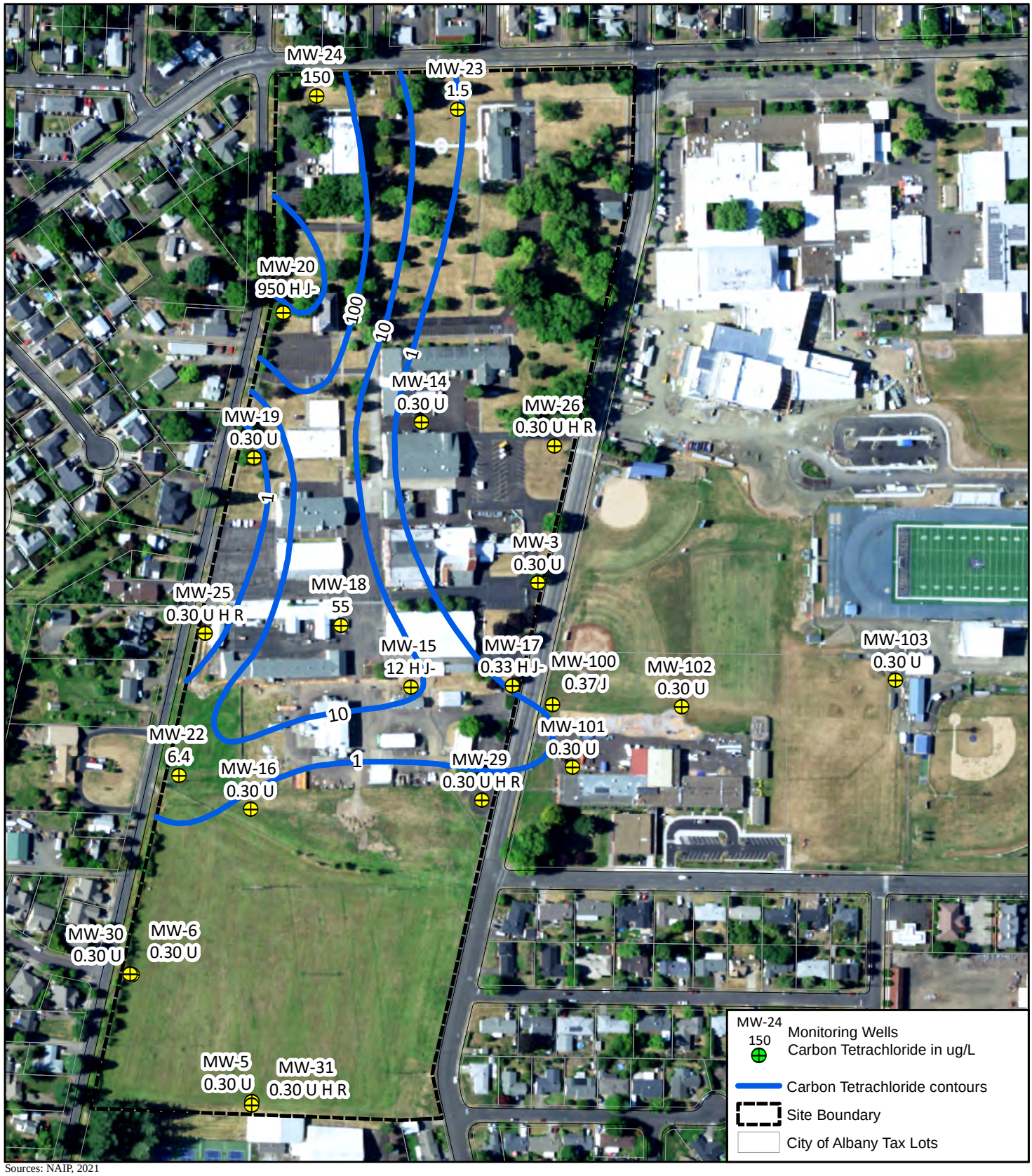

MW-31 VOC Concentrations
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2002
1/1/2004
1/1/2006
1/1/2008
1/1/2010
1/1/2012
1/1/2014
1/1/2016
1/1/2018
1/1/2020
1/1/2022
Date


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
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
0
100
200
300
400
500
600
700
800
900
1000
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
CT
CHL
cis-1,2-DCE
TCE
PCE
Concentrations (µg/L)
5
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
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
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
20
40
60
80
100
120
140
160
180
200
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
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
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



Sources: NAIP, 2021
Albany GIS, 2010.

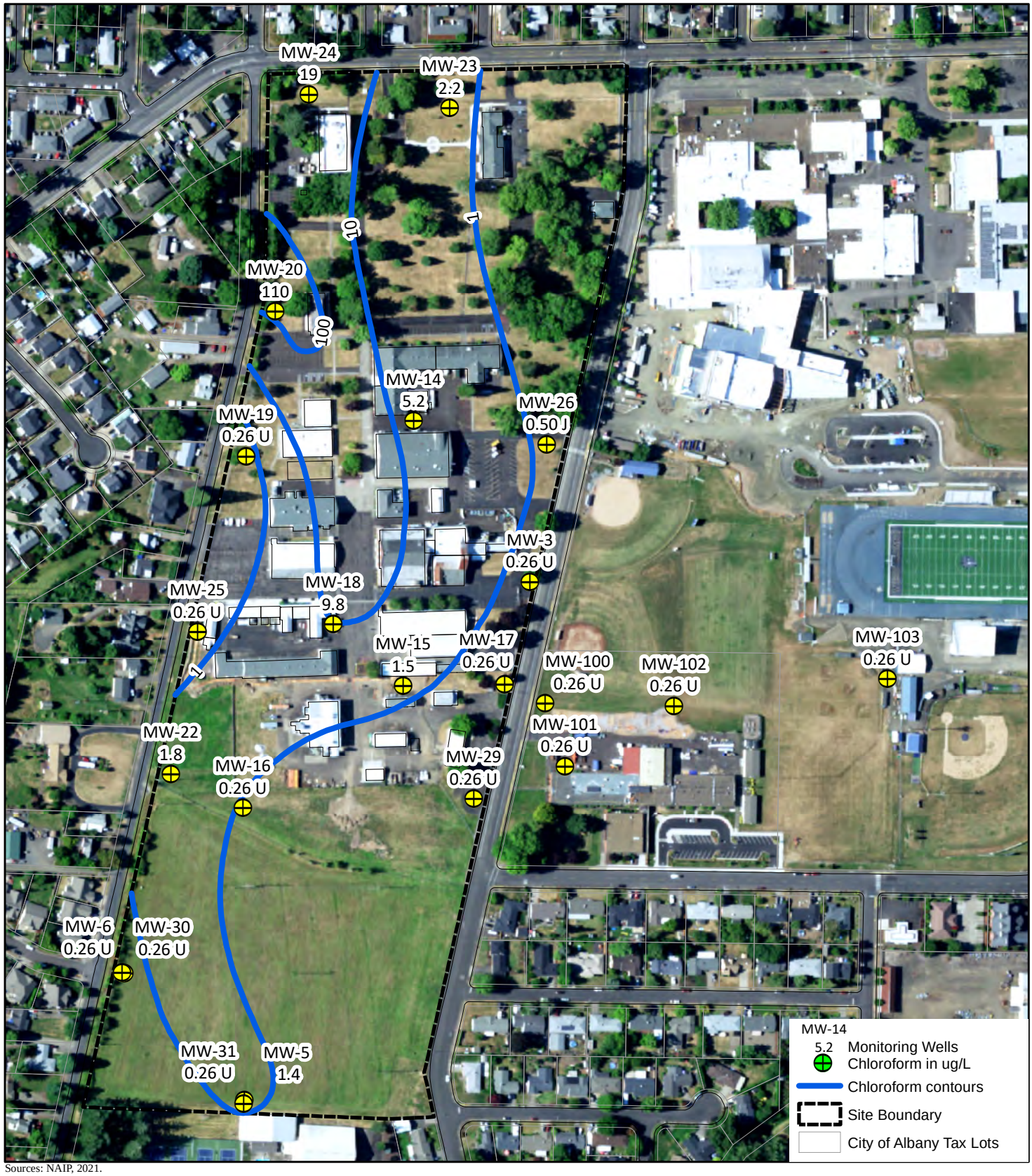
150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE GRAVEL AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 7



Sources: NAIP, 2021.
Albany GIS, 2010.

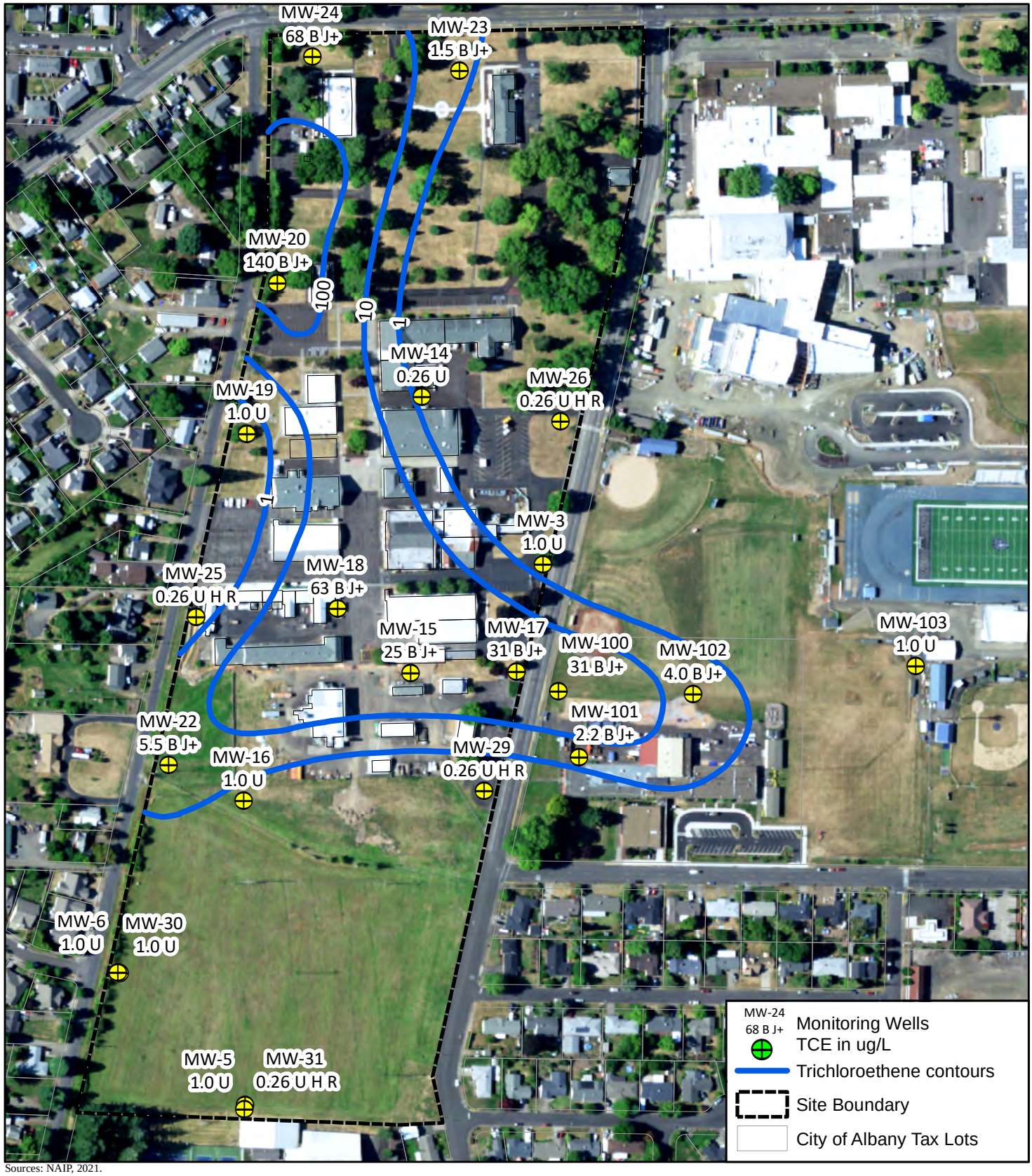
150 75 0 150 300
Feet

CONCENTRATION OF CHLOROFORM IN THE GRAVEL AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 8



Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TRICHLOROETHENE IN THE GRAVEL AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 9

Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF TETRACHLOROETHENE IN THE GRAVEL AQUIFER, AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 10

Sources: NAIP, 2021.
Albany GIS, 2010.

150 75 0 150 300
Feet

CONCENTRATION OF CARBON TETRACHLORIDE IN THE PERCHED AQUIFER AUGUST 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

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 2022

NETL ALBANY
GROUNDWATER SAMPLING
ALBANY, OREGON

August 2022

FIGURE 12

Appendices

Appendix A. Monitoring Well Sampling Field Logs

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW1

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 20.51 (ft)

Total Well Depth 29.32 (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: E-tape

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: — **End Purge Time:** —

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										

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): —

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

QA/QC Sample I.D.: _____

Sample Start Time: — **End SampleTime:** —

COMMENTS: Gauge Only @ 1532

PID: —

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: ~~MW1~~ MW3

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 12.36 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1039 **End Purge Time:** 1059

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		12.36	7.88	20.6	351.2	37.10	7.66	110.6	
1	5		12.40	7.08	17.4	266.0	15.20	5.87	162.9	
2	10		12.40	7.09	17.4	266.4	9.65	5.84	167.3	
3	15		12.40	7.11	17.3	267.4	6.33	5.85	169.1	
4	20		12.40	7.11	17.3	266.8	4.39	5.87	172.8	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): ~~MW1, 8/24/22,~~ MW3, 8/24/22, 1101

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

QA/QC Sample I.D.: _____

Sample Start Time: 1101 **End SampleTime:** 1103

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-4

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 6.88 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1212 **End Purge Time:** 1232

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		6.88	6.71	18.7	363.2	135	1.93	122.7	
1	5		7.05	6.70	18.5	356.3	20.8	1.45	110.5	
2	10		7.05	6.70	18.5	354.6	4.68	1.38	99.1	
3	15		6.95	6.72	18.7	356.2	5.09	1.35	100.2	
4	20		6.95	6.70	18.7	357.7	7.46	1.46	101.4	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW4, 8/23/22, 1234

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

QA/QC Sample I.D.:

Sample Start Time: 1234 **End SampleTime:** 1237

COMMENTS: Dup 1 taken from MW4 @ 1237

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW5

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 16.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0942 **End Purge Time:** ~~1002~~ 1007

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		16.10	7.40	17.5	356.3	15.73	8.68	125.8	
1	5		16.18	6.98	15.3	364.7	85.24	5.61	115.5	
2	10		16.32	6.87	13.5	357.8	54.67	3.46	122.4	
3	15		16.40	6.72	13.4	350.1	10.25	4.35	137.4	
4	20		16.60	6.73	13.4	349.3	6.19	4.29	140.2	
5	25		16.74	6.74	13.4	350.7	4.97	4.28	142.7	

SAMPLE COLLECTION DATA **Sampled by:** Chanel Long

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

Sample I.D. (Name, Date, Time): MW5, 8/25/22, ~~1009~~ 1009

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

QA/QC Sample I.D.:

Sample Start Time: ~~1009~~ 1009 **End SampleTime:** ~~1011~~ 1011

COMMENTS: Dup 2 taken @ 1011

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW6

Project No.: 0506-16 Client: NETL-Albany

Project Name: Second SA Dry Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 8/24/22

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

Depth to Water: 18.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1653 End Purge Time: 1713

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		18.00	6.55	14.8	121.5	47.48	5.50	162.3	
1	5		19.15	6.60	14.3	138.1	59.79	4.66	154.4	
2	10		19.20	6.58	15.0	141.2	28.73	4.47	105.2	
3	15		19.20	6.59	15.1	143.4	25.14	4.37	B101.7	
*	20		19.20	6.58	14.9	143.8	23.48	4.29	104.3	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW6, 8/24/22, 1715

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

QA/QC Sample I.D.:

Sample Start Time: 1715 End SampleTime: 1717

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW7

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: _____ **Sampling Date:** 8/25/22

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

Depth to Water: 7.80 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1050 **End Purge Time:** 1110

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		7.80	6.92	15.7	301.3	16.39	7.48	144.1	
1	5		8.66	6.56	13.8	285.3	4.15	4.13	166.3	
2	10		8.93	6.57	14.0	284.6	2.01	4.28	176.8	
3	15		9.18	6.59	14.0	291.8	1.78	4.26	180.6	
4	20		9.30	6.57	13.9	296.4	8.03	4.21	183.2	

SAMPLE COLLECTION DATA **Sampled by:** Chanel Long

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

Sample I.D. (Name, Date, Time): MW7, 8125/22, 1112

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

QA/QC Sample I.D.: _____

Sample Start Time: 1112 **End SampleTime:** 1114

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW8

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 13.70 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1547 **End Purge Time:** 1607

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		13.70	7.10	19.4	168.1	45.29	6.61	166.5	
1	5		14.00	6.73	15.1	172.0	47.07	2.24	188.1	
2	10		14.25	6.69	15.1	170.5	8.88	2.18	193.3	
3	15		14.40	6.74	15.1	173.1	4.76	2.13	192.8	
4	20		14.46	6.73	15.1	172.8	5.86	2.09	192.4	

SAMPLE COLLECTION DATA **Sampled by:** Chanel Long

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

Sample I.D. (Name, Date, Time): MW8, 8/23/22 1608

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

QA/QC Sample I.D.: _____

Sample Start Time: 1608 **End SampleTime:** 1610

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW9

Project No.: 0506-16 Client: NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 8/24/22

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

Depth to Water: 10.14 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1246 End Purge Time: 1306

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		10.14	6.42	17.4	118.2	26.40	3.41	178.3	
1	5		10.36	6.83	15.0	214.9	26.97	2.94	180.3	
2	10		10.42	6.84	15.0	215.0	8.43	2.89	182.6	
3	15		10.52	6.84	14.9	214.2	6.92	2.84	185.7	
4	20		10.63	6.85	15.1	213.1	5.97	2.89	187.9	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW9, 8/24/22, 1308

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

QA/QC Sample I.D.: _____

Sample Start Time: 1308 End SampleTime: 1310

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW10

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event~~ 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 9.57 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1350 **End Purge Time:** 1410

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	6		9.57	6.71	19.7	128.6	11.04	6.63	159.6	
1	5		9.73	6.38	15.8	157.6	32.74	1.04	189.7	
2	10		9.85	6.38	15.7	158.0	11.84	0.64	196.6	
3	15		10.02	6.37	15.9	158.3	7.14	0.57	201.4	
4	20		10.18	6.37	15.8	158.5	7.61	0.54	204.8	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW10, 8/24/22, 1412

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

QA/QC Sample I.D.: _____

Sample Start Time: 1412 **End SampleTime:** 1414

COMMENTS:

PID: 0.1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW11

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 11.77 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1358 **End Purge Time:** 1418

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		11.77	6.26	17.1	141.6	116.71	5.52	103.2	
1	5		13.15	6.14	15.3	174.5	44.03	0.91	49.5	
2	10		13.46	6.19	15.3	180.1	14.60	0.83	11.6	
3	15		13.65	6.21	15.2	191.8	7.60	0.96	7.2	
4	20		13.71	6.22	15.1	192.0	6.21	0.98	7.5	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW11, 8/25/22, 1420

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

QA/QC Sample I.D.:

Sample Start Time: 1420 **End SampleTime:** 1422

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW13

Project No.: 0506 - 16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 14.94 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1620 **End Purge Time:** 1640

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		14.94	6.97	23.7	164.2	7.56	4.95	157.5	
1	5		15.24	6.81	18.7	185.2	2.62	2.21	175.7	
2	10		15.50	6.81	18.7	178.5	2.72	2.12	178.9	
3	15		15.58	6.84	18.6	184.1	4.75	1.94	181.4	
4	20		15.60	6.85	18.4	186.2	3.81	1.96	178.2	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW13, 8/23/22, 1642

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

QA/QC Sample I.D.:

Sample Start Time: 1642 **End SampleTime:** 1644

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW14

Project No.: 0506-10 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 16.76 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: 457

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1202 **End Purge Time:** 1222

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		16.76	7.55	24.9	73.7	60.01	8.05	124.6	
1	5		16.78	6.84	18.8	155.1	60.92	3.83	154.2	
2	10		16.78	6.83	18.8	154.5	13.03	3.25	160.9	
3	15		16.78	6.82	18.7	153.6	12.89	3.21	164.3	
4	20		16.78	6.82	18.6	154.5	10.17	3.17	168.3	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW14, 8/24/22, 1224

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

QA/QC Sample I.D.:

Sample Start Time: 1224 **End SampleTime:** 1226

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW15

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 16.61 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: ~~1352~~ 1352 **End Purge Time:** 1412

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		16.61	6.82	17.6	283.6	70.13	6.79	150.5	
1	5		16.62	6.81	16.9	404.6	113.80	3.74	116.28	
2	10		16.61	6.88	16.7	372.6	15.82	3.37	156.2	
3	15		16.61	6.91	16.7	370.7	13.44	3.42	149.7	
4	20		16.61	6.90	16.7	368.4	8.51	3.40	153.8	

SAMPLE COLLECTION DATA

Sampled by: Charel Long

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

Sample I.D. (Name, Date, Time): MW15, 8/23/22, 1413

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

QA/QC Sample I.D.: _____

Sample Start Time: 1413 **End SampleTime:** 1415

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW16

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 12.73 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Peristaltic ~~Dedicated Bladder~~ Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: ~~1224~~ 1138 **End Purge Time:** 1208

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~~		~~12.73~~	~~7.14~~	~~22.0~~	~~345.1~~	~~60.14~~	~~6.75~~	~~175.2~~	
~~1~~	~~5~~									
~~2~~	~~10~~									
~~3~~	~~15~~									
~~4~~	~~20~~									
0	0		12.73	~~6.86~~	20.9	314.0	1272.6	5.38	135.9	
1	5		12.80	6.63	15.3	247.1	1055.41	2.24	160.3	
2	10		12.90	6.64	14.4	263.1	841.3	1.75	150.7	
3	15		12.90	6.75	14.3	303.3	770	1.60	62.4	
4	20		12.90	6.69	14.4	299.9	19.74	1.21	81.3	
5	25		12.90	6.75	14.3	304.1	12.83	1.20	78.7	
6	30		12.90	6.76	14.3	306.9	9.88	1.17	75.4	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW16 8/25/22, 1210

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

QA/QC Sample I.D.:

Sample Start Time: 1210 **End SampleTime:** 1212

COMMENTS: Bladder pump was not working. Tubing might be clogged w/in well. Switched to peristaltic pump.

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW17

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 12.17 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1428 **End Purge Time:** 1448

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		12.17	7.43	24.6	2.8	13.10	5.85	205.5	
1	5		12.20	7.37	23.5	280.8	6.34	4.30	172.9	
2	10		12.22	7.44	23.8	284.7	5.16	3.84	161.7	
3	15		12.20	7.44	24.5	283.1	5.46	3.83	157.4	
4	20		12.20	7.48	23.8	280.4	7.38	3.80	156.4	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW17, 8/23/22, 1449

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

QA/QC Sample I.D.:

Sample Start Time: 1449 **End SampleTime:** ~~1551~~ 1451

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW18

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 17.48 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0925 **End Purge Time:** 0945

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		17.48	7.12	17.8	373.8	18.62	4.72	146.1	
1	5		17.50	7.10	17.2	372.0	22.62	2.85	143.6	
2	10		17.50	7.13	17.2	357.8	4.72	2.54	142.3	
3	15		17.50	7.14	17.1	361.6	3.21	2.55	142.0	
4	20		17.50	7.14	17.2	367.6	2.68	2.61	142.6	

SAMPLE COLLECTION DATA Sampled by: Crane/Long

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

Sample I.D. (Name, Date, Time): MW18, 8/24/22, 0947

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

QA/QC Sample I.D.: _____

Sample Start Time: 0947 **End SampleTime:** 0949

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW19

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 18.00 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1312 **End Purge Time:** 1332

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		18.00	6.95	19.5	169.6	8.91	4.29	183.9	
1	5		18.21	6.59	16.4	161.0	8.79	0.94	121.4	
2	10		18.21	6.54	16.3	158.9	4.50	0.32	159.4	
3	15		18.21	6.53	16.2	158.5	3.04	0.23	158.7	
4	20		18.21	6.52	16.4	156.7	2.28	0.20	160.4	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW19, 8/24/22, 1335

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

QA/QC Sample I.D.:

Sample Start Time: 1335 **End SampleTime:** 1337

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW20

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 18.57 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1420 **End Purge Time:** 1440

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		18.57	7.57	21.1	403.8	13.91	6.25	196.2	
1	5		18.56	7.21	15.4	368.2	59.32	1.05	197.7	
2	10		18.58	7.21	15.3	360.4	14.87	0.86	195.2	
3	15		18.60	7.21	15.4	361.5	12.21	0.81	193.1	
4	20		18.63	7.23	15.3	364.7	9.23	0.78	190.7	

SAMPLE COLLECTION DATA **Sampled by:** Chanel Long

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

Sample I.D. (Name, Date, Time): MW20, 8/24/22, 1442

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

QA/QC Sample I.D.: _____

Sample Start Time: 1442 **End SampleTime:** 1444

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW21

Project No.: 0506-100 **Client:** NETL-Albany

Project Name: ~~Second SA Dry Season Event 2022~~ **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 12.52 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: E-Tape

Required Total Purge Volume (gals.): —

Total Volume Purged: —

Begin Purge Time: — **End Purge Time:** —

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										

SAMPLE COLLECTION DATA Sampled by: Crane

Sampling Method(s) & Equip: ~~Low Flow using QED Bladder Pumps~~ E-tape

Sample I.D. (Name, Date, Time): —

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

QA/QC Sample I.D.:

Sample Start Time: — **End SampleTime:** —

COMMENTS: Gauge Only

PID: _____

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW22

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: **Sampling Date:** 8/25/22

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

Depth to Water: 12.50 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 12.48 **End Purge Time:** 1313

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		12.50	7.42	21.5	302.6	111.01	8.10	120.9	
1	5		12.52	7.31	14.5	331.1	140.53	0.74	-43.0	
2	10		12.52	7.29	14.6	312.4	89.24	0.54	-11.8	
3	15		12.52	7.27	14.5	310.8	14.52	0.68	-10.6	
4	20		12.52	7.27	14.6	311.7	7.16	0.72	-13.8	
5	25		12.52	7.27	14.4	312.8	4.43	0.75	-13.7	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW22, 8/25/22, 1315

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

QA/QC Sample I.D.:

Sample Start Time: 1315 **End SampleTime:** 1317

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW23

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 20.27 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1506 **End Purge Time:** 1526

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		20.27	7.77	22.2	278.8	5.61	8.85	141.1	
1	5		20.28	7.72	16.5	310.4	5.35	6.68	154.9	
2	10		20.32	7.70	16.3	307.6	2.14	6.96	160.1	
3	15		20.31	7.69	16.1	304.8	1.83	6.98	163.4	
4	20		20.30	7.68	16.2	303.2	1.70	7.03	166.7	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW23, 8/24/22, 1528

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

QA/QC Sample I.D.:

Sample Start Time: 1528 **End SampleTime:** 1530

COMMENTS:

PID: 0.1

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW24

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Overcast **Sampling Date:** 8/26/22

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

Depth to Water: 19.97 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0914 **End Purge Time:** 0934

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		19.97	7.22	17.6	332.9	7.34	5.54	123.4	
1	5		19.98	7.44	15.2	329.0	14.12	1.73	113.3	
2	10		19.98	7.48	15.1	331.1	12.57	1.38	108.8	
3	15		19.98	7.49	15.0	332.1	7.01	1.34	107.2	
4	20		20.00	7.49	14.9	332.4	5.94	1.32	107.0	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW24, 8/26/22, 0936

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

QA/QC Sample I.D.:

Sample Start Time: 0936 **End SampleTime:** 0938

COMMENTS: Dup 2 retaken @ this well @ 0938

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW 25

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 14.55 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1521 **End Purge Time:** 1541

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		14.55	7.02	17.1	188.1	74.22	5.55	146.6	
1	5		14.78	6.98	18.1	189.9	105.94	4.12	153.7	
2	10		14.99	6.96	15.3	186.6	13.98	1.57	162.5	
3	15		15.11	6.94	15.2	183.1	10.52	1.68	167.9	
4	20		15.15	6.94	15.3	184.0	10.43	1.71	170.5	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW25, 8/23/22, 1543

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

QA/QC Sample I.D.:

Sample Start Time: 1543 **End SampleTime:** 1545

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW26

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 12.50 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1118 **End Purge Time:** 1138

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		12.50	7.44	20.5	228.1	18.26	6.58	144.0	
1	5		14.32	7.05	16.2	241.9	16.32	0.66	154.8	
2	10		15.50	7.04	16.1	241.7	13.98	0.37	119.2	
3	15		15.30	7.04	16.3	239.4	13.87	0.34	117.8	
4	20		15.50	7.05	16.6	243.2	11.42	0.29	110.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW26, 8/24/22, 1140

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

QA/QC Sample I.D.: _____

Sample Start Time: 1140 **End SampleTime:** 1142

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW27

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 12.82 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1322 **End Purge Time:** 1342

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		12.82	7.15	22.4	297.1	16.01	8.23	101.1	
1	5		12.90	6.98	19.1	265.1	9.74	7.62	116.2	
2	10		12.94	6.94	19.6	257.6	9.31	6.84	148.0	
3	15		12.98	6.93	19.8	257.1	6.24	6.60	150.5	
4	20		13.01	6.93	19.3	258.0	5.47	6.59	154.5	

SAMPLE COLLECTION DATA Sampled by: Chaine / Long

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

Sample I.D. (Name, Date, Time): MW27, 8/23/22 ~~1341~~ 1343

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

QA/QC Sample I.D.: _____

Sample Start Time: 1343 **End SampleTime:** 1345

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW28

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 5.94 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 0956 **End Purge Time:** 1016

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		5.94	7.32	18.6	114.2	57.29	4.34	97.5	
1	5		8.42	7.26	18.8	110.3	50.87	4.44	113.9	
2	10		8.70	7.31	19.3	104.1	30.93	5.28	128.2	
3	15		8.73	7.26	19.3	105.5	27.89	5.23	131.3	
4	20		8.79	7.23	19.2	109.8	22.69	5.19	133.0	

SAMPLE COLLECTION DATA Sampled by: _____

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

Sample I.D. (Name, Date, Time): MW28, 8/24/22, 1018

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

QA/QC Sample I.D.: _____

Sample Start Time: 1018 **End SampleTime:** 1020

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: ~~MW-29~~ MW29

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 12.93 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1243 **End Purge Time:** ~~1303~~ 1303

Conversion Factors	
Well I.D.	Conv. Fact. (cf)
1	0.041
6	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		12.93	7.41	22.1	492.1	19.82	5.72	-51.0	
1	5		14.02	7.26	18.2	534	23.09	2.22	-144.5	
2	10		14.62	7.25	18.1	543	23.81	0.32	-169.9	
3	15		14.65	7.27	18.2	542	23.56	0.24	-170.2	
4	20		14.73	7.28	18.3	542	19.59	0.22	-168.4	

SAMPLE COLLECTION DATA Sampled by: ~~CJ~~ Chanel Long

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

Sample I.D. (Name, Date, Time): MW29, 8/23/22, 1305

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

QA/QC Sample I.D.: _____

Sample Start Time: 1305 **End SampleTime:** 1307

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW30

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 17.09 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1723 **End Purge Time:** 1743

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		17.09	7.32	18.4	150.9	39.08	7.83	80.8	
1	5		17.76	7.47	15.3	344.1	72.94	1.19	~~-116.7~~ -116.7	
2	10		17.90	7.48	15.5	348.4	~~129~~	0.43	-132.9	Turbidity 36.39
3	15		17.96	7.49	15.4	344.7	31.43	0.33	-134.0	
4	20		17.96	7.50	15.5	341.6	29.22	6.30	-133.4	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW30, 8/24/22, 1745

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

QA/QC Sample I.D.:

Sample Start Time: 1745 **End SampleTime:** 1747

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW31

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/24/22

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

Depth to Water: 14.87 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1806 **End Purge Time:** 1831

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	(5)		14.87	7.75	17.9	396.5	11.27	3.59	62.0	
1	5		15.05	7.56	15.3	401.9	53.72	1.31	-118.6	
2	10		15.10	7.60	15.1	403.3	63.42	0.45	-139.8	
3	15		15.10	7.61	15.2	403.2	17.89	0.39	-145.1	
4	20		15.10	7.62	15.1	402.7	13.06	0.37	-146.5	
5	25		15.10	7.62	15.1	403.3	10.97	0.32	-146.6	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW31, 8/24/22, 1833

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

QA/QC Sample I.D.: _____

Sample Start Time: 1833 **End SampleTime:** 1835

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW100

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 11.68 (ft)

Total Well Depth (ft)

Length of Water Column

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.):

Total Volume Purged:

Begin Purge Time: 1758 **End Purge Time:** 1818

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		11.68	7.29	17.6	536	43.57	4.22	148.4	
1	5		11.72	7.28	15.5	548	15.38	0.55	141.4	
2	10		11.72	7.27	15.5	551	9.51	0.49	138.3	
3	15		11.75	7.26	15.5	556	7.42	0.41	132.9	
4	20		11.15	7.26	15.5	554	6.84	0.40	134.3	

SAMPLE COLLECTION DATA Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW102, 8/25/22, 1820

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

QA/QC Sample I.D.:

Sample Start Time: 1820 **End SampleTime:** 1822

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW-101

Project No.: 0506 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 12.43 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1530 **End Purge Time:** 1550

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		12.43	7.65	24.6	377.5	58.24	7.34	47.4	
1	5		12.49	7.39	18.4	388.7	189.93	3.67	97.6	
2	10		12.51	7.39	15.2	384.5	22.80	3.49	101.2	
3	15		12.53	7.39	18.0	385.3	13.22	3.45	103.1	
4	20		12.53	7.39	18.1	385.6	10.44	3.44	104.1	

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

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

Sample I.D. (Name, Date, Time): MW101, 8/25/22, 1552

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

QA/QC Sample I.D.:

Sample Start Time: 1552 **End SampleTime:** 1554

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW102

Project No.: 0506-106 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/25/22

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

Depth to Water: 10.56 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1628 **End Purge Time:** 1653

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		10.56	7.61	19.8	321.6	31.30	5.36	96.9	
1	5		10.58	7.54	16.0	303.5	172.70	2.12	105.5	
2	10		10.58	7.54	15.8	297.4	155.2	1.25	107.5	
3	15		10.60	7.54	15.6	296.6	20.71	1.20	105.3	
4	20		10.60	7.54	15.4	295.7	19.82	1.18	104.7	
5	25		10.60	7.54	15.4	296.2	18.26	1.18	104.4	

SAMPLE COLLECTION DATA Sampled by: Chantel Long

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

Sample I.D. (Name, Date, Time): MW102, 8/25/22, 1655

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

QA/QC Sample I.D.:

Sample Start Time: 1655 **End SampleTime:** 1657

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: MW103

Project No.: 0506-16 Client: NETL-Albany

Project Name: Second SA Dry Season Event 2022 Project Location: Albany, OR

Weather Conditions: Sunny Sampling Date: 8/25/22

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

Depth to Water: 8.85 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: Dedicated Bladder Pump

Field Testing Equipment: YSI

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: 1714 End Purge Time: 1734

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		8.85	7.46	17.0	356.0	60.65	5.12	120.2	
1	5		8.87	7.35	18.0	350.4	60.21	1.92	121.3	
2	10		8.90	7.31	17.8	346.0	40.82	1.11	116.2	
3	15		8.90	7.30	17.6	343.5	39.76	1.06	112.6	
4	20		8.90	7.31	17.6	341.6	36.54	1.03	110.8	

SAMPLE COLLECTION DATA

Sampled by: Chantel Long

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

Sample I.D. (Name, Date, Time): MW103, 8125/22, 1736

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

QA/QC Sample I.D.: _____

Sample Start Time: 1736 End SampleTime: 1738

COMMENTS:

PID: 0.0

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: PZ-1A

Project No.: 0506-16 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 13.58 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~

Field Testing Equipment: E-tape

Required Total Purge Volume (gals.): —

Total Volume Purged: —

Begin Purge Time: — **End Purge Time:** —

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										

SAMPLE COLLECTION DATA

Sampled by: Charel

Sampling Method(s) & Equip: ~~Low Flow using QED Bladder Pumps~~ E-Tape

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

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

QA/QC Sample I.D.:

Sample Start Time: — **End SampleTime:** —

COMMENTS: Gauge Only

PID: —

GROUNDWATER SAMPLE COLLECTION RECORD

WELL NO.: PZ-1B

Project No.: 0506-116 **Client:** NETL-Albany

Project Name: Second SA Dry Season Event 2022 **Project Location:** Albany, OR

Weather Conditions: Sunny **Sampling Date:** 8/23/22

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

Depth to Water: 13.50 (ft)

Total Well Depth _____ (ft)

Length of Water Column _____

WELL PURGE DATA

Purge Method: ~~Dedicated Bladder Pump~~

Field Testing Equipment: E-tape

Required Total Purge Volume (gals.): _____

Total Volume Purged: _____

Begin Purge Time: — **End Purge Time:** —

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										

SAMPLE COLLECTION DATA

Sampled by: Chanel Long

Sampling Method(s) & Equip: ~~Low Flow using QED Bladder Pumps~~ E-tape

Sample I.D. (Name, Date, Time): —

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

QA/QC Sample I.D.: _____

Sample Start Time: — **End SampleTime:** —

COMMENTS: Gauge Only

PID: —

Appendix B. EuroFins Laboratories Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-117330-1
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:
10/7/2022 3:57:39 PM

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

Table of Contents

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

Job ID: 580-117330-1

Job ID: 580-117330-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-117330-1

Receipt
The samples were received on 8/26/2022 1:02 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3º C and 4.6º C.

GC/MS VOA
Several samples were re-analyzed outside of the holding time due to QC not meeting criteria in the initial analysis. Both sets of data are reported for each sample.

Several samples had surrogates recover outside of the control limits on the re-analyses. The results confirmed. All data was reported.

Sample MW100 (580-117330-27) was not re-analyzed due to insufficient sample volume. 1,1,1-Trichloroethane and Carbon tetrachloride recovered low outside the acceptable range in the CCVIS. Analytes Chlorodibromomethane, cis-1,3-Dichloropropene, and trans-1,3-Dichloropropene recovered low outside the acceptable range in the LCS and LCSD. Trichlorofluoromethane failed the RPD in the LCSD.

Sample MW24 (580-117330-34) and DUP2 (580-117330-35) were re-analyzed at a dilution. The reporting limits have been adjusted accordingly.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-402406 and analytical batch 580-403622 recovered outside control limits for the following analytes: 1,1-Dichloroethene.

The method blank for analytical batch 580-403307 contained Trichloroethene above the method detection limit. This target analyte concentration was less than 1/2 the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-403307 recovered outside control limits for the following analytes: Trichlorofluoromethane.

The method blank for analytical batch 580-402999 contained 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene and cis-1,2-Dichloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The method blank for analytical batch 580-402903 contained 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

The method blank for analytical batch 580-402999 contained Trichloroethene above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

The method blank for analytical batch 580-403032 contained Trichloroethene above the reporting limit (RL). Sample 580-117330-A-11 did not contain the target compound; therefore, re-extraction and/or re-analysis of this sample was not performed. Samples 580-117330-A-1, 117330-A-4, 117330-A-7,117330-A-8,117330-A-15,117330-A-16,117330-A-17, and 117330-A-19 did recover this analyte so samples were reran. Both sets of data are to be reported.

Analyte recovery for 1,1,1-Trichloroethane and Carbon tetrachloride recovered low outside the acceptable range in the CCVIS. Recovery for Trichloroethene recovered high in the CCVIS, LCS and LCSD and the samples recovered above the RL for these analytes. Analyte cis-1,2-Dichloroethene recovered high in the LCS and the samples recovered above the RL. Analyte recovery for cis-1,2-Dichloroethene and Trichloroethene recovered above half the RL in the method blank and recovered above the RL in the sample. Samples were reran out of hold so both sets of data are to be reported.

Analyte recovery for 1,1,1-Trichloroethane and Carbon tetrachloride recovered low outside the acceptable range in the CCVIS. Recovery for cis-1,3-Dichloropropene, trans-1,3-Dichloropropene and Chlorodibromomethane recovered low outside the acceptable range in the LCS and LCSD. Samples are re-ran out of hold so both sets of data are to be reported.

Job ID: 580-117330-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-404753 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-404753 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene.

1,1,1-Trichloroethane failed low in the CCVIS. This was the only in hold run for this sample, therefore both sets of data are being reported

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-403144 recovered outside control limits for the following analytes: Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The method blank for analytical batch 580-403144 contained Trichloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-402406 and analytical batch 580-404543 recovered outside control limits for the following analytes: Vinyl Chloride.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-404543 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-405799 recovered outside control limits for the following analytes: Trichlorofluoromethane, 1,1,1-Trichloroethane, Carbon tetrachloride, Trichloroethene and cis-1,3-Dichloropropene.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-405799 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The CCV for analytical batch 580-403307 recovered outside control limits for the following analyte(s): Chloroethane. Chloroethane 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 minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-402903 was outside criteria for the following analyte(s): Dichlorobromomethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

The CCV for analytical batch 580-403032 recovered outside control limits for the following analyte: Bromoform 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 580-403032 recovered above the upper control limit for Hexachlorobutadiene. 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 580-404753 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The CCV for analytical batch 580-403144 recovered outside control limits for the following analyte: Dichlorodifluoromethane. Dichlorodifluoromethane 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.

GC/MS Semi VOA

Job ID: 580-117330-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 580-402206 and 580-402804 and analytical batch 580-402906: Hexachlorobutadiene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-402206 and 580-402804 and analytical batch 580-402906 recovered outside control limits for the following analytes: Pyridine.

The continuing calibration verification (CCV) standard associated with batch 580-402906 recovered outside acceptance criteria for %D for 2-Fluorophenol (Surr), Phenol-d5 (Surr) and Nitrobenzene-d5 (Surr) . Since the %Rec is within the acceptance criteria for the surrogate in the CCV and associated samples, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-402906 recovered above the upper control limit for 3 & 4 Methylphenol and Hexachlorobutadiene. 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 580-402906 recovered outside acceptance criteria, low biased, for Pyridine. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-402906 was outside criteria for the following analyte(s): 2-Methylphenol, 3 & 4 Methylphenol and 2,4-Dinitrotoluene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

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: 580-117330-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Job ID: 580-117330-1

Client Sample ID: MW3
Date Collected: 08/24/22 11:01
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-1
Matrix: Water

Method: SW846 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			09/07/22 01:03	1
Chloromethane	0.33	J	1.0	0.28	ug/L			09/07/22 01:03	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 01:03	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 01:03	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 01:03	1
Trichlorofluoromethane	0.36	J	1.0	0.36	ug/L			09/07/22 01:03	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 01:03	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 01:03	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 01:03	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 01:03	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 01:03	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 01:03	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 01:03	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:03	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 01:03	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 01:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 01:03	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 01:03	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 01:03	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 01:03	1
Trichloroethene	0.97	J B	1.0	0.26	ug/L			09/07/22 01:03	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 01:03	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 01:03	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:03	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 01:03	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 01:03	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 01:03	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 01:03	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 01:03	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 01:03	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 01:03	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 01:03	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 01:03	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 01:03	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:03	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 01:03	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 01:03	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 01:03	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 01:03	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:03	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 01:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 01:03	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 01:03	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:03	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 01:03	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 01:03	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 01:03	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 01:03	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 01:03	1

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

Job ID: 580-117330-1

Client Sample ID: MW3
Date Collected: 08/24/22 11:01
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-1
Matrix: Water

Method: SW846 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			09/07/22 01:03	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 01:03	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:03	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:03	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:03	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 01:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 01:03	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 01:03	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 01:03	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 01:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/07/22 01:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/07/22 01:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*09/07/22 01:03*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/07/22 01:03*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 16:06	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 16:06	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/28/22 16:06	1
Trichloroethene	**0.41**	**J H**	1.0	0.26	ug/L			09/28/22 16:06	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 16:06	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/28/22 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/28/22 16:06*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/28/22 16:06*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/28/22 16:06*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW4
Date Collected: 08/23/22 12:34
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-2
Matrix: Water

Method: SW846 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			09/04/22 08:55	1
Chloromethane	0.38	J	1.0	0.28	ug/L			09/04/22 08:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/04/22 08:55	1
Bromomethane	ND		1.0	0.21	ug/L			09/04/22 08:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/04/22 08:55	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/22 08:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/22 08:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/22 08:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/22 08:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/22 08:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/22 08:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/22 08:55	1
cis-1,2-Dichloroethene	0.88	J B *+	1.0	0.35	ug/L			09/04/22 08:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 08:55	1
Chloroform	ND		1.0	0.26	ug/L			09/04/22 08:55	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/22 08:55	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/04/22 08:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/22 08:55	1
Benzene	ND		1.0	0.24	ug/L			09/04/22 08:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/22 08:55	1
Trichloroethene	3.2	B *+	1.0	0.26	ug/L			09/04/22 08:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/22 08:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/22 08:55	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 08:55	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/04/22 08:55	1
Toluene	ND		1.0	0.39	ug/L			09/04/22 08:55	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/22 08:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/22 08:55	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/04/22 08:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/22 08:55	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/22 08:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/22 08:55	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/22 08:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/22 08:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/22 08:55	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/22 08:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/22 08:55	1
Styrene	ND		1.0	0.53	ug/L			09/04/22 08:55	1
Bromoform	ND		1.0	0.51	ug/L			09/04/22 08:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/22 08:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/22 08:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/22 08:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/22 08:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/22 08:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/22 08:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/22 08:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/22 08:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/22 08:55	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/22 08:55	1

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

Job ID: 580-117330-1

Client Sample ID: MW4
Date Collected: 08/23/22 12:34
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-2
Matrix: Water

Method: SW846 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			09/04/22 08:55	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/22 08:55	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 08:55	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/22 08:55	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 08:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/22 08:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/22 08:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/22 08:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/22 08:55	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/22 08:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/22 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/04/22 08:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/04/22 08:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*09/04/22 08:55*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/04/22 08:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	H	1.0	0.35	ug/L			09/21/22 16:47	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 16:47	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 16:47	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/21/22 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/21/22 16:47*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*09/21/22 16:47*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/21/22 16:47*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW5
Date Collected: 08/25/22 10:09
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-3
Matrix: Water

Method: SW846 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			09/08/22 18:31	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 18:31	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 18:31	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 18:31	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 18:31	1
Trichlorofluoromethane	0.36	J *1	1.0	0.36	ug/L			09/08/22 18:31	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 18:31	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 18:31	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 18:31	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 18:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 18:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 18:31	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 18:31	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 18:31	1
Chloroform	1.4		1.0	0.26	ug/L			09/08/22 18:31	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 18:31	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 18:31	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 18:31	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 18:31	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 18:31	1
Trichloroethene	0.34	J B	1.0	0.26	ug/L			09/08/22 18:31	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 18:31	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 18:31	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 18:31	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 18:31	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 18:31	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 18:31	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 18:31	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 18:31	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 18:31	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 18:31	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 18:31	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 18:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 18:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 18:31	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 18:31	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 18:31	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 18:31	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 18:31	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 18:31	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 18:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 18:31	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 18:31	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 18:31	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 18:31	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 18:31	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 18:31	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 18:31	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 18:31	1

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

Job ID: 580-117330-1

Client Sample ID: MW5
Date Collected: 08/25/22 10:09
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-3
Matrix: Water

Method: SW846 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			09/08/22 18:31	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 18:31	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 18:31	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 18:31	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 18:31	1
1,2-Dibromo-3-Chloropropane	**0.69**	**J**	3.0	0.57	ug/L			09/08/22 18:31	1
1,2,4-Trichlorobenzene	**0.56**	**J**	1.0	0.33	ug/L			09/08/22 18:31	1
Hexachlorobutadiene	**0.82**	**J**	3.0	0.79	ug/L			09/08/22 18:31	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 18:31	1
1,2,3-Trichlorobenzene	**0.78**	**J**	2.0	0.43	ug/L			09/08/22 18:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/08/22 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/08/22 18:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/08/22 18:31*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/08/22 18:31*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 17:11	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 17:11	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 17:11	1
cis-1,3-Dichloropropene	ND	H	1.0	0.42	ug/L			09/21/22 17:11	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 17:11	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*78*	*S1-*	*80 - 120*		*09/21/22 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*09/21/22 17:11*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*09/21/22 17:11*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/21/22 17:11*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW6
Date Collected: 08/24/22 17:15
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-4
Matrix: Water

Method: SW846 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			09/07/22 01:28	1
Chloromethane	0.38	J	1.0	0.28	ug/L			09/07/22 01:28	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 01:28	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 01:28	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 01:28	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 01:28	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 01:28	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 01:28	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 01:28	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 01:28	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 01:28	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 01:28	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 01:28	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:28	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 01:28	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 01:28	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 01:28	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 01:28	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 01:28	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 01:28	1
Trichloroethene	0.69	J B	1.0	0.26	ug/L			09/07/22 01:28	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 01:28	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 01:28	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:28	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 01:28	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 01:28	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 01:28	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 01:28	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 01:28	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 01:28	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 01:28	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 01:28	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 01:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 01:28	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:28	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 01:28	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 01:28	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 01:28	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 01:28	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:28	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 01:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 01:28	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 01:28	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:28	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 01:28	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 01:28	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 01:28	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 01:28	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 01:28	1

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

Job ID: 580-117330-1

Client Sample ID: MW6
Date Collected: 08/24/22 17:15
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-4
Matrix: Water

Method: SW846 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			09/07/22 01:28	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 01:28	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:28	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:28	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:28	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 01:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 01:28	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 01:28	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 01:28	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 01:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/07/22 01:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*09/07/22 01:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/07/22 01:28*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/07/22 01:28*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			10/03/22 14:40	1
1,1,1-Trichloroethane	ND	H *1	1.0	0.39	ug/L			10/03/22 14:40	1
Carbon tetrachloride	ND	H *1	1.0	0.30	ug/L			10/03/22 14:40	1
Trichloroethene	ND	H *1	1.0	0.26	ug/L			10/03/22 14:40	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			10/03/22 14:40	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			10/03/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/03/22 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/03/22 14:40*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/03/22 14:40*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/03/22 14:40*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW7
Date Collected: 08/25/22 11:12
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-5
Matrix: Water

Method: SW846 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			09/08/22 18:55	1
Chloromethane	0.39	J	1.0	0.28	ug/L			09/08/22 18:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 18:55	1
Bromomethane	0.29	J	1.0	0.21	ug/L			09/08/22 18:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 18:55	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 18:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 18:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 18:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 18:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 18:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 18:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 18:55	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 18:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 18:55	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 18:55	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 18:55	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 18:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 18:55	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 18:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 18:55	1
Trichloroethene	0.34	J B	1.0	0.26	ug/L			09/08/22 18:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 18:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 18:55	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 18:55	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 18:55	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 18:55	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 18:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 18:55	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 18:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 18:55	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 18:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 18:55	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 18:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 18:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 18:55	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 18:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 18:55	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 18:55	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 18:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 18:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 18:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 18:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 18:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 18:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 18:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 18:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 18:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 18:55	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 18:55	1

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

Job ID: 580-117330-1

Client Sample ID: MW7
Date Collected: 08/25/22 11:12
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-5
Matrix: Water

Method: SW846 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			09/08/22 18:55	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 18:55	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 18:55	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 18:55	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 18:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 18:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 18:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 18:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 18:55	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 18:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/08/22 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/08/22 18:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/08/22 18:55*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/08/22 18:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 17:36	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 17:36	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 17:36	1
cis-1,3-Dichloropropene	ND	H *1	1.0	0.42	ug/L			09/21/22 17:36	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 17:36	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/21/22 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/21/22 17:36*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*09/21/22 17:36*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/21/22 17:36*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW8
Date Collected: 08/23/22 16:08
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-6
Matrix: Water

Method: SW846 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			09/04/22 09:20	1
Chloromethane	ND		1.0	0.28	ug/L			09/04/22 09:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/04/22 09:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/04/22 09:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/04/22 09:20	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/22 09:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/22 09:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/22 09:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/22 09:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/22 09:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/22 09:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/22 09:20	1
cis-1,2-Dichloroethene	0.82	J B *+	1.0	0.35	ug/L			09/04/22 09:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 09:20	1
Chloroform	ND		1.0	0.26	ug/L			09/04/22 09:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/22 09:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/04/22 09:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/22 09:20	1
Benzene	ND		1.0	0.24	ug/L			09/04/22 09:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/22 09:20	1
Trichloroethene	3.2	B *+	1.0	0.26	ug/L			09/04/22 09:20	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/22 09:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/22 09:20	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 09:20	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/04/22 09:20	1
Toluene	ND		1.0	0.39	ug/L			09/04/22 09:20	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/22 09:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/22 09:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/04/22 09:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/22 09:20	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/22 09:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/22 09:20	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/22 09:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/22 09:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/22 09:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/22 09:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/22 09:20	1
Styrene	ND		1.0	0.53	ug/L			09/04/22 09:20	1
Bromoform	ND		1.0	0.51	ug/L			09/04/22 09:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/22 09:20	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/22 09:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/22 09:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/22 09:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/22 09:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/22 09:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/22 09:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/22 09:20	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/22 09:20	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/22 09:20	1

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

Job ID: 580-117330-1

Client Sample ID: MW8
Date Collected: 08/23/22 16:08
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-6
Matrix: Water

Method: SW846 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			09/04/22 09:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/22 09:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 09:20	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/22 09:20	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 09:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/22 09:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/22 09:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/22 09:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/22 09:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/22 09:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/22 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/04/22 09:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/04/22 09:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/04/22 09:20*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/04/22 09:20*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	H	1.0	0.35	ug/L			09/21/22 18:00	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 18:00	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 18:00	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*83*		*80 - 120*		*09/21/22 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/21/22 18:00*	*1*
4-Bromofluorobenzene (Surr)	*124*	*S1+*	*80 - 120*		*09/21/22 18:00*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*09/21/22 18:00*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW9
Date Collected: 08/24/22 13:08
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-7
Matrix: Water

Method: SW846 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			09/07/22 01:53	1
Chloromethane	0.32	J	1.0	0.28	ug/L			09/07/22 01:53	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 01:53	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 01:53	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 01:53	1
Trichlorofluoromethane	0.36	J	1.0	0.36	ug/L			09/07/22 01:53	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 01:53	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 01:53	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 01:53	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 01:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 01:53	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 01:53	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 01:53	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:53	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 01:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 01:53	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 01:53	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 01:53	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 01:53	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 01:53	1
Trichloroethene	0.64	J B	1.0	0.26	ug/L			09/07/22 01:53	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 01:53	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 01:53	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 01:53	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 01:53	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 01:53	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 01:53	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 01:53	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 01:53	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 01:53	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 01:53	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 01:53	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 01:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 01:53	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:53	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 01:53	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 01:53	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 01:53	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 01:53	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:53	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 01:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 01:53	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 01:53	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 01:53	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 01:53	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 01:53	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 01:53	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 01:53	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 01:53	1

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

Job ID: 580-117330-1

Client Sample ID: MW9
Date Collected: 08/24/22 13:08
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-7
Matrix: Water

Method: SW846 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			09/07/22 01:53	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 01:53	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:53	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 01:53	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 01:53	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 01:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 01:53	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 01:53	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 01:53	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 01:53	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/07/22 01:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/07/22 01:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/07/22 01:53*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/07/22 01:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 16:30	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 16:30	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/28/22 16:30	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/28/22 16:30	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 16:30	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/28/22 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/28/22 16:30*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/28/22 16:30*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/28/22 16:30*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW10
Date Collected: 08/24/22 14:12
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-8
Matrix: Water

Method: SW846 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			09/07/22 02:17	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 02:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 02:17	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 02:17	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 02:17	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 02:17	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 02:17	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 02:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 02:17	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 02:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 02:17	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 02:17	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 02:17	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 02:17	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 02:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 02:17	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 02:17	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 02:17	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 02:17	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 02:17	1
Trichloroethene	0.54	J B	1.0	0.26	ug/L			09/07/22 02:17	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 02:17	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 02:17	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 02:17	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 02:17	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 02:17	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 02:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 02:17	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 02:17	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 02:17	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 02:17	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 02:17	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 02:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 02:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 02:17	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 02:17	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 02:17	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 02:17	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 02:17	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 02:17	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 02:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 02:17	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 02:17	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 02:17	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 02:17	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 02:17	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 02:17	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 02:17	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 02:17	1

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

Job ID: 580-117330-1

Client Sample ID: MW10
Date Collected: 08/24/22 14:12
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-8
Matrix: Water

Method: SW846 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			09/07/22 02:17	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 02:17	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 02:17	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 02:17	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 02:17	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 02:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 02:17	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 02:17	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 02:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 02:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/07/22 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/07/22 02:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/07/22 02:17*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/07/22 02:17*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 16:55	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 16:55	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/28/22 16:55	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/28/22 16:55	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 16:55	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/28/22 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/28/22 16:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/28/22 16:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/28/22 16:55*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW11
Date Collected: 08/25/22 14:20
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-9
Matrix: Water

Method: SW846 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			09/08/22 19:20	1
Chloromethane	0.33	J	1.0	0.28	ug/L			09/08/22 19:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 19:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 19:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 19:20	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 19:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 19:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 19:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 19:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 19:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 19:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 19:20	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 19:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 19:20	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 19:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 19:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 19:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 19:20	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 19:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 19:20	1
Trichloroethene	0.35	J B	1.0	0.26	ug/L			09/08/22 19:20	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 19:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 19:20	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 19:20	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 19:20	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 19:20	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 19:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 19:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 19:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 19:20	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 19:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 19:20	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 19:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 19:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 19:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 19:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 19:20	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 19:20	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 19:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 19:20	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 19:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 19:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 19:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 19:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 19:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 19:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 19:20	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 19:20	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 19:20	1

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

Job ID: 580-117330-1

Client Sample ID: MW11
Date Collected: 08/25/22 14:20
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-9
Matrix: Water

Method: SW846 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			09/08/22 19:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 19:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 19:20	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 19:20	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 19:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 19:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 19:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 19:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 19:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 19:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/08/22 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/08/22 19:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/08/22 19:20*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/08/22 19:20*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 18:25	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 18:25	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 18:25	1
cis-1,3-Dichloropropene	ND	H *1	1.0	0.42	ug/L			09/21/22 18:25	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 18:25	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*77*	*S1-*	*80 - 120*		*09/21/22 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*09/21/22 18:25*	*1*
4-Bromofluorobenzene (Surr)	*125*	*S1+*	*80 - 120*		*09/21/22 18:25*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*09/21/22 18:25*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW13
Date Collected: 08/23/22 16:42
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-10
Matrix: Water

Method: SW846 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			09/04/22 09:44	1
Chloromethane	ND		1.0	0.28	ug/L			09/04/22 09:44	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/04/22 09:44	1
Bromomethane	ND		1.0	0.21	ug/L			09/04/22 09:44	1
Chloroethane	ND		1.0	0.35	ug/L			09/04/22 09:44	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/04/22 09:44	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/04/22 09:44	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/04/22 09:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/04/22 09:44	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/04/22 09:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/04/22 09:44	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/04/22 09:44	1
cis-1,2-Dichloroethene	0.75	J B *+	1.0	0.35	ug/L			09/04/22 09:44	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 09:44	1
Chloroform	ND		1.0	0.26	ug/L			09/04/22 09:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/04/22 09:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/04/22 09:44	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/04/22 09:44	1
Benzene	ND		1.0	0.24	ug/L			09/04/22 09:44	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/04/22 09:44	1
Trichloroethene	3.0	B *+	1.0	0.26	ug/L			09/04/22 09:44	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/04/22 09:44	1
Dibromomethane	ND		1.0	0.34	ug/L			09/04/22 09:44	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/04/22 09:44	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/04/22 09:44	1
Toluene	ND		1.0	0.39	ug/L			09/04/22 09:44	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/04/22 09:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/04/22 09:44	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/04/22 09:44	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/04/22 09:44	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/04/22 09:44	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/04/22 09:44	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/04/22 09:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/04/22 09:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/04/22 09:44	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/04/22 09:44	1
o-Xylene	ND		1.0	0.39	ug/L			09/04/22 09:44	1
Styrene	ND		1.0	0.53	ug/L			09/04/22 09:44	1
Bromoform	ND		1.0	0.51	ug/L			09/04/22 09:44	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/04/22 09:44	1
Bromobenzene	ND		1.0	0.43	ug/L			09/04/22 09:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/04/22 09:44	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/04/22 09:44	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/04/22 09:44	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/04/22 09:44	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/04/22 09:44	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/04/22 09:44	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/04/22 09:44	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/04/22 09:44	1

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

Job ID: 580-117330-1

Client Sample ID: MW13
Date Collected: 08/23/22 16:42
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-10
Matrix: Water

Method: SW846 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			09/04/22 09:44	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/04/22 09:44	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 09:44	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/04/22 09:44	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/04/22 09:44	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/04/22 09:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/04/22 09:44	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/04/22 09:44	1
Naphthalene	ND		3.0	0.93	ug/L			09/04/22 09:44	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/04/22 09:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/04/22 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/04/22 09:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/04/22 09:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/04/22 09:44*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/04/22 09:44*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	H	1.0	0.35	ug/L			09/21/22 18:49	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 18:49	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 18:49	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*80*		*80 - 120*		*09/21/22 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/21/22 18:49*	*1*
4-Bromofluorobenzene (Surr)	*123*	*S1+*	*80 - 120*		*09/21/22 18:49*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*09/21/22 18:49*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW14
Date Collected: 08/24/22 12:24
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-11
Matrix: Water

Method: SW846 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			09/07/22 02:41	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 02:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 02:41	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 02:41	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 02:41	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 02:41	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 02:41	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 02:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 02:41	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 02:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 02:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 02:41	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 02:41	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 02:41	1
Chloroform	5.2		1.0	0.26	ug/L			09/07/22 02:41	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 02:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 02:41	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 02:41	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 02:41	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 02:41	1
Trichloroethene	ND		1.0	0.26	ug/L			09/07/22 02:41	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 02:41	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 02:41	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 02:41	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 02:41	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 02:41	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 02:41	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 02:41	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 02:41	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 02:41	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 02:41	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 02:41	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 02:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 02:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 02:41	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 02:41	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 02:41	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 02:41	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 02:41	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 02:41	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 02:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 02:41	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 02:41	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 02:41	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 02:41	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 02:41	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 02:41	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 02:41	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 02:41	1

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

Job ID: 580-117330-1

Client Sample ID: MW14
Date Collected: 08/24/22 12:24
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-11
Matrix: Water

Method: SW846 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			09/07/22 02:41	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 02:41	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 02:41	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 02:41	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 02:41	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 02:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 02:41	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 02:41	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 02:41	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 02:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/07/22 02:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/07/22 02:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/07/22 02:41*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/07/22 02:41*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 17:19	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 17:19	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/28/22 17:19	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 17:19	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/28/22 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/28/22 17:19*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*09/28/22 17:19*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/28/22 17:19*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW15
Date Collected: 08/23/22 14:13
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-12
Matrix: Water

Method: SW846 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			09/06/22 18:31	1
Chloromethane	0.37	J	1.0	0.28	ug/L			09/06/22 18:31	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 18:31	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 18:31	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 18:31	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 18:31	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 18:31	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 18:31	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 18:31	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 18:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 18:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 18:31	1
cis-1,2-Dichloroethene	0.42	J B	1.0	0.35	ug/L			09/06/22 18:31	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:31	1
Chloroform	1.5		1.0	0.26	ug/L			09/06/22 18:31	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 18:31	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 18:31	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 18:31	1
Trichloroethene	25	B	1.0	0.26	ug/L			09/06/22 18:31	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 18:31	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 18:31	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:31	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 18:31	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 18:31	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 18:31	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 18:31	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 18:31	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 18:31	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 18:31	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 18:31	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 18:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 18:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:31	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 18:31	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 18:31	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 18:31	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 18:31	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 18:31	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 18:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 18:31	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 18:31	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:31	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 18:31	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 18:31	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 18:31	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 18:31	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 18:31	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 18:31	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 18:31	1

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

Job ID: 580-117330-1

Client Sample ID: MW15
Date Collected: 08/23/22 14:13
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:31	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/06/22 18:31	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:31	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 18:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 18:31	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 18:31	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 18:31	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 18:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/06/22 18:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/06/22 18:31*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/06/22 18:31*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 19:14	1
Carbon tetrachloride	**12**	**H**	1.0	0.30	ug/L			09/21/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/22 19:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*09/21/22 19:14*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/21/22 19:14*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*09/21/22 19:14*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW16
Date Collected: 08/25/22 12:10
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-13
Matrix: Water

Method: SW846 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			09/08/22 19:44	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 19:44	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 19:44	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 19:44	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 19:44	1
Trichlorofluoromethane	0.36	J *1	1.0	0.36	ug/L			09/08/22 19:44	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 19:44	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 19:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 19:44	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 19:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 19:44	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 19:44	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 19:44	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 19:44	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 19:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 19:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 19:44	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 19:44	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 19:44	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 19:44	1
Trichloroethene	0.35	J B	1.0	0.26	ug/L			09/08/22 19:44	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 19:44	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 19:44	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 19:44	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 19:44	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 19:44	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 19:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 19:44	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 19:44	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 19:44	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 19:44	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 19:44	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 19:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 19:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 19:44	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 19:44	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 19:44	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 19:44	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 19:44	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 19:44	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 19:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 19:44	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 19:44	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 19:44	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 19:44	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 19:44	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 19:44	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 19:44	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 19:44	1

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

Job ID: 580-117330-1

Client Sample ID: MW16
Date Collected: 08/25/22 12:10
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-13
Matrix: Water

Method: SW846 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			09/08/22 19:44	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 19:44	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 19:44	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 19:44	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 19:44	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 19:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 19:44	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 19:44	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 19:44	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 19:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/08/22 19:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/08/22 19:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/08/22 19:44*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/08/22 19:44*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 19:38	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 19:38	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 19:38	1
cis-1,3-Dichloropropene	ND	H *1	1.0	0.42	ug/L			09/21/22 19:38	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 19:38	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/21/22 19:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*09/21/22 19:38*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/21/22 19:38*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/21/22 19:38*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW17
Date Collected: 08/23/22 14:49
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-14
Matrix: Water

Method: SW846 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			09/06/22 18:55	1
Chloromethane	0.38	J	1.0	0.28	ug/L			09/06/22 18:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 18:55	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 18:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 18:55	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 18:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 18:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 18:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 18:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 18:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 18:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 18:55	1
cis-1,2-Dichloroethene	0.90	J B	1.0	0.35	ug/L			09/06/22 18:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:55	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 18:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 18:55	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 18:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 18:55	1
Trichloroethene	31	B	1.0	0.26	ug/L			09/06/22 18:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 18:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 18:55	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:55	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 18:55	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 18:55	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 18:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 18:55	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 18:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 18:55	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 18:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 18:55	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 18:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 18:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:55	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 18:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 18:55	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 18:55	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 18:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 18:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 18:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 18:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 18:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 18:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 18:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 18:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 18:55	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 18:55	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 18:55	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 18:55	1

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

Job ID: 580-117330-1

Client Sample ID: MW17
Date Collected: 08/23/22 14:49
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:55	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/06/22 18:55	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 18:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 18:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 18:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 18:55	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 18:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/06/22 18:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/06/22 18:55*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/06/22 18:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 20:03	1
Carbon tetrachloride	**0.33**	**J H**	1.0	0.30	ug/L			09/21/22 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/21/22 20:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/21/22 20:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/21/22 20:03*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/21/22 20:03*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW18
Date Collected: 08/24/22 09:47
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-15
Matrix: Water

Method: SW846 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			09/07/22 03:05	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 03:05	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 03:05	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 03:05	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 03:05	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 03:05	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 03:05	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 03:05	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 03:05	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 03:05	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 03:05	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 03:05	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 03:05	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:05	1
Chloroform	9.8		1.0	0.26	ug/L			09/07/22 03:05	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 03:05	1
Carbon tetrachloride	55		1.0	0.30	ug/L			09/07/22 03:05	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 03:05	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 03:05	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 03:05	1
Trichloroethene	63	B	1.0	0.26	ug/L			09/07/22 03:05	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 03:05	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 03:05	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:05	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 03:05	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 03:05	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 03:05	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 03:05	1
Tetrachloroethene	5.1		1.0	0.41	ug/L			09/07/22 03:05	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 03:05	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 03:05	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 03:05	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 03:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 03:05	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:05	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 03:05	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 03:05	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 03:05	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 03:05	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:05	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 03:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 03:05	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 03:05	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:05	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 03:05	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 03:05	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 03:05	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 03:05	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 03:05	1

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

Job ID: 580-117330-1

Client Sample ID: MW18
Date Collected: 08/24/22 09:47
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-15
Matrix: Water

Method: SW846 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			09/07/22 03:05	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 03:05	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:05	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:05	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:05	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 03:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 03:05	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 03:05	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 03:05	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 03:05	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/07/22 03:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/07/22 03:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/07/22 03:05*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/07/22 03:05*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 17:44	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 17:44	1
Carbon tetrachloride	**69**	**H**	1.0	0.30	ug/L			09/28/22 17:44	1
Trichloroethene	**61**	**H**	1.0	0.26	ug/L			09/28/22 17:44	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 17:44	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/22 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/28/22 17:44*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/28/22 17:44*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/28/22 17:44*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW19
Date Collected: 08/24/22 13:35
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-16
Matrix: Water

Method: SW846 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			09/07/22 03:30	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 03:30	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 03:30	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 03:30	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 03:30	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 03:30	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 03:30	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 03:30	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 03:30	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 03:30	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 03:30	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 03:30	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 03:30	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:30	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 03:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 03:30	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 03:30	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 03:30	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 03:30	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 03:30	1
Trichloroethene	0.69	J B	1.0	0.26	ug/L			09/07/22 03:30	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 03:30	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 03:30	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:30	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 03:30	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 03:30	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 03:30	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 03:30	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 03:30	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 03:30	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 03:30	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 03:30	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 03:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 03:30	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:30	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 03:30	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 03:30	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 03:30	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 03:30	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:30	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 03:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 03:30	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 03:30	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:30	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 03:30	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 03:30	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 03:30	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 03:30	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 03:30	1

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

Job ID: 580-117330-1

Client Sample ID: MW19
Date Collected: 08/24/22 13:35
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-16
Matrix: Water

Method: SW846 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			09/07/22 03:30	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 03:30	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:30	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:30	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:30	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 03:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 03:30	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 03:30	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 03:30	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 03:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/07/22 03:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/07/22 03:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/07/22 03:30*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/07/22 03:30*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 18:08	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 18:08	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/28/22 18:08	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/28/22 18:08	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 18:08	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/28/22 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/28/22 18:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/28/22 18:08*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/28/22 18:08*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW20
Date Collected: 08/24/22 14:42
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-17
Matrix: Water

Method: SW846 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			09/07/22 03:55	1
Chloromethane	0.38	J	1.0	0.28	ug/L			09/07/22 03:55	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 03:55	1
Bromomethane	0.27	J	1.0	0.21	ug/L			09/07/22 03:55	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 03:55	1
Trichlorofluoromethane	0.36	J	1.0	0.36	ug/L			09/07/22 03:55	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 03:55	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 03:55	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 03:55	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 03:55	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 03:55	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 03:55	1
cis-1,2-Dichloroethene	0.54	J	1.0	0.35	ug/L			09/07/22 03:55	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:55	1
Chloroform	110		1.0	0.26	ug/L			09/07/22 03:55	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 03:55	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 03:55	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 03:55	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 03:55	1
Trichloroethene	140	B	1.0	0.26	ug/L			09/07/22 03:55	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 03:55	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 03:55	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 03:55	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 03:55	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 03:55	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 03:55	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 03:55	1
Tetrachloroethene	8.2		1.0	0.41	ug/L			09/07/22 03:55	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 03:55	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 03:55	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 03:55	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 03:55	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 03:55	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:55	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 03:55	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 03:55	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 03:55	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 03:55	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:55	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 03:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 03:55	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 03:55	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 03:55	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 03:55	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 03:55	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 03:55	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 03:55	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 03:55	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/07/22 03:55	1

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

Job ID: 580-117330-1

Client Sample ID: MW20
Date Collected: 08/24/22 14:42
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 03:55	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:55	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 03:55	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 03:55	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 03:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 03:55	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 03:55	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 03:55	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 03:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/07/22 03:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/07/22 03:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/07/22 03:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/07/22 03:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	50	20	ug/L			09/28/22 18:32	50
1,1,1-Trichloroethane	ND	H	50	20	ug/L			09/28/22 18:32	50
Carbon tetrachloride	**950**	**H**	50	15	ug/L			09/28/22 18:32	50
Trichloroethene	**130**	**H**	50	13	ug/L			09/28/22 18:32	50
trans-1,3-Dichloropropene	ND	H	50	21	ug/L			09/28/22 18:32	50
Chlorodibromomethane	ND	H	50	22	ug/L			09/28/22 18:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/28/22 18:32*	*50*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/28/22 18:32*	*50*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/28/22 18:32*	*50*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/28/22 18:32*	*50*

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

Job ID: 580-117330-1

Client Sample ID: MW22
Date Collected: 08/25/22 13:15
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-18
Matrix: Water

Method: SW846 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			09/08/22 20:09	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 20:09	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 20:09	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 20:09	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 20:09	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 20:09	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 20:09	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 20:09	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 20:09	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 20:09	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 20:09	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 20:09	1
cis-1,2-Dichloroethene	1.5		1.0	0.35	ug/L			09/08/22 20:09	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:09	1
Chloroform	1.8		1.0	0.26	ug/L			09/08/22 20:09	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 20:09	1
Carbon tetrachloride	6.4		1.0	0.30	ug/L			09/08/22 20:09	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 20:09	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 20:09	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 20:09	1
Trichloroethene	5.5	B	1.0	0.26	ug/L			09/08/22 20:09	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 20:09	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 20:09	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:09	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 20:09	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 20:09	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 20:09	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 20:09	1
Tetrachloroethene	0.76	J	1.0	0.41	ug/L			09/08/22 20:09	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 20:09	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 20:09	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 20:09	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 20:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 20:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:09	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 20:09	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 20:09	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 20:09	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 20:09	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:09	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 20:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 20:09	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 20:09	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:09	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 20:09	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 20:09	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 20:09	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 20:09	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 20:09	1

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

Job ID: 580-117330-1

Client Sample ID: MW22
Date Collected: 08/25/22 13:15
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-18
Matrix: Water

Method: SW846 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			09/08/22 20:09	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 20:09	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:09	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:09	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:09	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 20:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 20:09	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 20:09	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 20:09	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 20:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/08/22 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/08/22 20:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/08/22 20:09*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/08/22 20:09*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 20:27	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 20:27	1
Carbon tetrachloride	**9.0**	**H**	1.0	0.30	ug/L			09/21/22 20:27	1
cis-1,3-Dichloropropene	ND	H *1	1.0	0.42	ug/L			09/21/22 20:27	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 20:27	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/21/22 20:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/21/22 20:27*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/21/22 20:27*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/21/22 20:27*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW23
Date Collected: 08/24/22 15:28
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-19
Matrix: Water

Method: SW846 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			09/07/22 04:20	1
Chloromethane	0.39	J	1.0	0.28	ug/L			09/07/22 04:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 04:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 04:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 04:20	1
Trichlorofluoromethane	0.36	J	1.0	0.36	ug/L			09/07/22 04:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 04:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 04:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 04:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 04:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 04:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 04:20	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 04:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 04:20	1
Chloroform	2.2		1.0	0.26	ug/L			09/07/22 04:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 04:20	1
Carbon tetrachloride	1.5		1.0	0.30	ug/L			09/07/22 04:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 04:20	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 04:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 04:20	1
Trichloroethene	1.5	B	1.0	0.26	ug/L			09/07/22 04:20	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 04:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 04:20	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 04:20	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 04:20	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 04:20	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 04:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 04:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 04:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 04:20	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 04:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 04:20	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 04:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 04:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 04:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 04:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 04:20	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 04:20	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 04:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 04:20	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 04:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 04:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 04:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 04:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 04:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 04:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 04:20	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 04:20	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 04:20	1

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

Job ID: 580-117330-1

Client Sample ID: MW23
Date Collected: 08/24/22 15:28
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-19
Matrix: Water

Method: SW846 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			09/07/22 04:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 04:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 04:20	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 04:20	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 04:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 04:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 04:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 04:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 04:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 04:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/07/22 04:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/07/22 04:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/07/22 04:20*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/07/22 04:20*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			09/28/22 18:57	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/28/22 18:57	1
Carbon tetrachloride	**1.0**	**H**	1.0	0.30	ug/L			09/28/22 18:57	1
Trichloroethene	**0.78**	**J H**	1.0	0.26	ug/L			09/28/22 18:57	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/28/22 18:57	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/28/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/28/22 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/28/22 18:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/28/22 18:57*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/28/22 18:57*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW25
Date Collected: 08/23/22 15:43
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-20
Matrix: Water

Method: SW846 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			09/06/22 17:17	1
Chloromethane	ND		1.0	0.28	ug/L			09/06/22 17:17	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 17:17	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 17:17	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 17:17	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 17:17	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 17:17	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 17:17	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 17:17	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 17:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 17:17	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 17:17	1
cis-1,2-Dichloroethene	0.50	J B	1.0	0.35	ug/L			09/06/22 17:17	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 17:17	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 17:17	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 17:17	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 17:17	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 17:17	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 17:17	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 17:17	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 17:17	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 17:17	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 17:17	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 17:17	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 17:17	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 17:17	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 17:17	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 17:17	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 17:17	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 17:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 17:17	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 17:17	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 17:17	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 17:17	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 17:17	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 17:17	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 17:17	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 17:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 17:17	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 17:17	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 17:17	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 17:17	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 17:17	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 17:17	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 17:17	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 17:17	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 17:17	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 17:17	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 17:17	1

Client Sample ID: MW25
Date Collected: 08/23/22 15:43
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-20
Matrix: Water

Method: SW846 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			09/06/22 17:17	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 17:17	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 17:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 17:17	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 17:17	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 17:17	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 17:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/06/22 17:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*09/06/22 17:17*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/06/22 17:17*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 20:51	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 20:51	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/21/22 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*09/21/22 20:51*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*09/21/22 20:51*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*09/21/22 20:51*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW26
Date Collected: 08/24/22 11:40
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-21
Matrix: Water

Method: SW846 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			09/06/22 19:20	1
Chloromethane	0.35	J	1.0	0.28	ug/L			09/06/22 19:20	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 19:20	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 19:20	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 19:20	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 19:20	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 19:20	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 19:20	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 19:20	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 19:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 19:20	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 19:20	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/06/22 19:20	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 19:20	1
Chloroform	0.50	J	1.0	0.26	ug/L			09/06/22 19:20	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 19:20	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 19:20	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 19:20	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 19:20	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 19:20	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 19:20	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 19:20	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 19:20	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 19:20	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 19:20	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 19:20	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 19:20	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 19:20	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 19:20	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 19:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 19:20	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 19:20	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 19:20	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 19:20	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 19:20	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 19:20	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 19:20	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 19:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 19:20	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 19:20	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 19:20	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 19:20	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 19:20	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 19:20	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 19:20	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 19:20	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 19:20	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 19:20	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 19:20	1

Client Sample ID: MW26
Lab Sample ID: 580-117330-21

Date Collected: 08/24/22 11:40
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/06/22 19:20	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 19:20	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 19:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 19:20	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 19:20	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 19:20	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 19:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/06/22 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/06/22 19:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/06/22 19:20*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/06/22 19:20*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 21:16	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 21:16	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*09/21/22 21:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/21/22 21:16*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/21/22 21:16*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*09/21/22 21:16*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW27
Date Collected: 08/23/22 13:43
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-22
Matrix: Water

Method: SW846 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			09/06/22 17:41	1
Chloromethane	0.47	J	1.0	0.28	ug/L			09/06/22 17:41	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 17:41	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 17:41	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 17:41	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 17:41	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 17:41	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 17:41	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 17:41	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 17:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 17:41	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 17:41	1
cis-1,2-Dichloroethene	0.44	J B	1.0	0.35	ug/L			09/06/22 17:41	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 17:41	1
Chloroform	13		1.0	0.26	ug/L			09/06/22 17:41	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 17:41	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 17:41	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 17:41	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 17:41	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 17:41	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 17:41	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 17:41	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 17:41	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 17:41	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 17:41	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 17:41	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 17:41	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 17:41	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 17:41	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 17:41	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 17:41	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 17:41	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 17:41	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 17:41	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 17:41	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 17:41	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 17:41	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 17:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 17:41	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 17:41	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 17:41	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 17:41	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 17:41	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 17:41	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 17:41	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 17:41	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 17:41	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 17:41	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 17:41	1

Client Sample ID: MW27
Lab Sample ID: 580-117330-22

Date Collected: 08/23/22 13:43
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/06/22 17:41	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 17:41	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 17:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 17:41	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 17:41	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 17:41	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 17:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/06/22 17:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/06/22 17:41*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/06/22 17:41*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 21:40	1
Carbon tetrachloride	**51**	**H**	1.0	0.30	ug/L			09/21/22 21:40	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/21/22 21:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*09/21/22 21:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/21/22 21:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*09/21/22 21:40*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW28
Date Collected: 08/24/22 10:18
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-23
Matrix: Water

Method: SW846 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			09/06/22 19:44	1
Chloromethane	0.34	J	1.0	0.28	ug/L			09/06/22 19:44	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 19:44	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 19:44	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 19:44	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 19:44	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 19:44	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 19:44	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 19:44	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 19:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 19:44	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 19:44	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/06/22 19:44	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 19:44	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 19:44	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 19:44	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 19:44	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 19:44	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 19:44	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 19:44	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 19:44	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 19:44	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 19:44	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 19:44	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 19:44	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 19:44	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 19:44	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 19:44	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 19:44	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 19:44	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 19:44	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 19:44	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 19:44	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 19:44	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 19:44	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 19:44	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 19:44	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 19:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 19:44	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 19:44	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 19:44	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 19:44	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 19:44	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 19:44	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 19:44	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 19:44	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 19:44	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 19:44	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 19:44	1

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

Job ID: 580-117330-1

Client Sample ID: MW28
Date Collected: 08/24/22 10:18
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-23
Matrix: Water

Method: SW846 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			09/06/22 19:44	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 19:44	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 19:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 19:44	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 19:44	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 19:44	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 19:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/06/22 19:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/06/22 19:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/06/22 19:44*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/06/22 19:44*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 22:25	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 22:25	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/21/22 22:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*09/21/22 22:25*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*09/21/22 22:25*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/21/22 22:25*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW29
Date Collected: 08/23/22 13:05
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-24
Matrix: Water

Method: SW846 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			09/06/22 18:06	1
Chloromethane	0.38	J	1.0	0.28	ug/L			09/06/22 18:06	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 18:06	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 18:06	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 18:06	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 18:06	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 18:06	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 18:06	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 18:06	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 18:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 18:06	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 18:06	1
cis-1,2-Dichloroethene	0.37	J B	1.0	0.35	ug/L			09/06/22 18:06	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:06	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 18:06	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 18:06	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 18:06	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 18:06	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 18:06	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 18:06	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 18:06	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 18:06	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 18:06	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 18:06	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 18:06	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 18:06	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 18:06	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 18:06	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 18:06	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 18:06	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 18:06	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:06	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 18:06	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 18:06	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 18:06	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 18:06	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 18:06	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 18:06	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 18:06	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 18:06	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 18:06	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 18:06	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 18:06	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 18:06	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 18:06	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 18:06	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 18:06	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:06	1

Client Sample ID: MW29
Lab Sample ID: 580-117330-24

Date Collected: 08/23/22 13:05
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/06/22 18:06	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 18:06	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 18:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 18:06	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 18:06	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 18:06	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 18:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/06/22 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/06/22 18:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/06/22 18:06*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/06/22 18:06*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 22:50	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 22:50	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/21/22 22:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*09/21/22 22:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/21/22 22:50*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/21/22 22:50*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW30
Date Collected: 08/24/22 17:45
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-25
Matrix: Water

Method: SW846 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			09/07/22 22:38	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 22:38	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 22:38	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 22:38	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 22:38	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 22:38	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 22:38	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 22:38	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 22:38	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 22:38	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 22:38	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 22:38	1
cis-1,2-Dichloroethene	4.7		1.0	0.35	ug/L			09/07/22 22:38	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 22:38	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 22:38	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 22:38	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 22:38	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 22:38	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 22:38	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 22:38	1
Trichloroethene	0.53	J B	1.0	0.26	ug/L			09/07/22 22:38	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 22:38	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 22:38	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 22:38	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 22:38	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 22:38	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 22:38	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 22:38	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 22:38	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 22:38	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 22:38	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 22:38	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 22:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 22:38	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 22:38	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 22:38	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 22:38	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 22:38	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 22:38	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 22:38	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 22:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 22:38	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 22:38	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 22:38	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 22:38	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 22:38	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 22:38	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 22:38	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 22:38	1

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

Job ID: 580-117330-1

Client Sample ID: MW30
Date Collected: 08/24/22 17:45
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-25
Matrix: Water

Method: SW846 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			09/07/22 22:38	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 22:38	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 22:38	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 22:38	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 22:38	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 22:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 22:38	1
Hexachlorobutadiene	ND	*+	3.0	0.79	ug/L			09/07/22 22:38	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 22:38	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 22:38	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/07/22 22:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/07/22 22:38*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/07/22 22:38*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*09/07/22 22:38*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H *1	1.0	0.39	ug/L			10/03/22 15:05	1
Trichloroethene	ND	H *1	1.0	0.26	ug/L			10/03/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/03/22 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/03/22 15:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/03/22 15:05*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*10/03/22 15:05*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW31
Date Collected: 08/24/22 18:33
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-26
Matrix: Water

Method: SW846 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			09/06/22 20:09	1
Chloromethane	0.35	J	1.0	0.28	ug/L			09/06/22 20:09	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 20:09	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 20:09	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 20:09	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 20:09	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 20:09	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 20:09	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 20:09	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 20:09	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 20:09	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 20:09	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/06/22 20:09	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 20:09	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 20:09	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 20:09	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 20:09	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 20:09	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 20:09	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 20:09	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 20:09	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 20:09	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 20:09	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 20:09	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 20:09	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 20:09	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 20:09	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 20:09	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 20:09	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 20:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 20:09	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 20:09	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 20:09	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 20:09	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 20:09	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 20:09	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 20:09	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 20:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 20:09	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 20:09	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 20:09	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 20:09	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 20:09	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 20:09	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 20:09	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 20:09	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 20:09	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 20:09	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 20:09	1

Client Sample ID: MW31
Lab Sample ID: 580-117330-26

Date Collected: 08/24/22 18:33
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/06/22 20:09	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 20:09	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 20:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 20:09	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 20:09	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 20:09	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 20:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/06/22 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/06/22 20:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*09/06/22 20:09*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/06/22 20:09*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 23:15	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 23:15	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/21/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/21/22 23:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/21/22 23:15*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*09/21/22 23:15*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/21/22 23:15*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW100
Date Collected: 08/25/22 18:20
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-27
Matrix: Water

Method: SW846 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			09/08/22 20:33	1
Chloromethane	0.37	J	1.0	0.28	ug/L			09/08/22 20:33	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 20:33	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 20:33	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 20:33	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 20:33	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 20:33	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 20:33	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 20:33	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 20:33	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 20:33	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 20:33	1
cis-1,2-Dichloroethene	0.44	J	1.0	0.35	ug/L			09/08/22 20:33	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:33	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 20:33	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 20:33	1
Carbon tetrachloride	0.37	J	1.0	0.30	ug/L			09/08/22 20:33	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 20:33	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 20:33	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 20:33	1
Trichloroethene	31	B	1.0	0.26	ug/L			09/08/22 20:33	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 20:33	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 20:33	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:33	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 20:33	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 20:33	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 20:33	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 20:33	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 20:33	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 20:33	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 20:33	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 20:33	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 20:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 20:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:33	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 20:33	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 20:33	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 20:33	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 20:33	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:33	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 20:33	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 20:33	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:33	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 20:33	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 20:33	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 20:33	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 20:33	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 20:33	1

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

Job ID: 580-117330-1

Client Sample ID: MW100
Date Collected: 08/25/22 18:20
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-27
Matrix: Water

Method: SW846 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			09/08/22 20:33	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 20:33	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:33	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:33	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:33	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 20:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 20:33	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 20:33	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 20:33	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 20:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/08/22 20:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/08/22 20:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/08/22 20:33*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/08/22 20:33*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW101
Date Collected: 08/25/22 15:52
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-28
Matrix: Water

Method: SW846 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			09/08/22 20:58	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 20:58	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 20:58	1
Bromomethane	0.28	J	1.0	0.21	ug/L			09/08/22 20:58	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 20:58	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 20:58	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 20:58	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 20:58	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 20:58	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 20:58	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 20:58	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 20:58	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 20:58	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:58	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 20:58	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 20:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 20:58	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 20:58	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 20:58	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 20:58	1
Trichloroethene	2.2	B	1.0	0.26	ug/L			09/08/22 20:58	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 20:58	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 20:58	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 20:58	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 20:58	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 20:58	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 20:58	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 20:58	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 20:58	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 20:58	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 20:58	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 20:58	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 20:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 20:58	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:58	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 20:58	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 20:58	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 20:58	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 20:58	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:58	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 20:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 20:58	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 20:58	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 20:58	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 20:58	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 20:58	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 20:58	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 20:58	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 20:58	1

Client Sample ID: MW101
Lab Sample ID: 580-117330-28
Date Collected: 08/25/22 15:52
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/08/22 20:58	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 20:58	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:58	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 20:58	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 20:58	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 20:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 20:58	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 20:58	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 20:58	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 20:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/08/22 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/08/22 20:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/08/22 20:58*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/08/22 20:58*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/21/22 23:40	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/21/22 23:40	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/21/22 23:40	1
cis-1,3-Dichloropropene	ND	H	1.0	0.42	ug/L			09/21/22 23:40	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/21/22 23:40	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/21/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/21/22 23:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*09/21/22 23:40*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*09/21/22 23:40*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/21/22 23:40*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW102
Date Collected: 08/25/22 16:55
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-29
Matrix: Water

Method: SW846 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			09/08/22 21:22	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 21:22	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 21:22	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 21:22	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 21:22	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 21:22	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 21:22	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 21:22	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 21:22	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 21:22	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 21:22	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 21:22	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 21:22	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 21:22	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 21:22	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 21:22	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 21:22	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 21:22	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 21:22	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 21:22	1
Trichloroethene	4.0	B	1.0	0.26	ug/L			09/08/22 21:22	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 21:22	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 21:22	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 21:22	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 21:22	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 21:22	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 21:22	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 21:22	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 21:22	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 21:22	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 21:22	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 21:22	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 21:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 21:22	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 21:22	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 21:22	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 21:22	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 21:22	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 21:22	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 21:22	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 21:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 21:22	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 21:22	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 21:22	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 21:22	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 21:22	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 21:22	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 21:22	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 21:22	1

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

Job ID: 580-117330-1

Client Sample ID: MW102
Date Collected: 08/25/22 16:55
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-29
Matrix: Water

Method: SW846 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			09/08/22 21:22	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 21:22	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 21:22	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 21:22	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 21:22	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 21:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 21:22	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 21:22	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 21:22	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 21:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/08/22 21:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/08/22 21:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/08/22 21:22*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/08/22 21:22*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H	1.0	0.36	ug/L			09/22/22 00:04	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/22/22 00:04	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/22/22 00:04	1
cis-1,3-Dichloropropene	ND	H	1.0	0.42	ug/L			09/22/22 00:04	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/22/22 00:04	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/22/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/22/22 00:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*09/22/22 00:04*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/22/22 00:04*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/22/22 00:04*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW103
Date Collected: 08/25/22 17:36
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-30
Matrix: Water

Method: SW846 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			09/08/22 21:47	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 21:47	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 21:47	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 21:47	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 21:47	1
Trichlorofluoromethane	ND	*1	1.0	0.36	ug/L			09/08/22 21:47	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 21:47	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 21:47	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 21:47	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 21:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 21:47	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 21:47	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 21:47	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 21:47	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 21:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 21:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 21:47	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 21:47	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 21:47	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 21:47	1
Trichloroethene	0.61	J B	1.0	0.26	ug/L			09/08/22 21:47	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 21:47	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 21:47	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 21:47	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 21:47	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 21:47	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 21:47	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 21:47	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 21:47	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 21:47	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 21:47	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 21:47	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 21:47	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 21:47	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 21:47	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 21:47	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 21:47	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 21:47	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 21:47	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 21:47	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 21:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 21:47	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 21:47	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 21:47	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 21:47	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 21:47	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 21:47	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 21:47	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 21:47	1

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

Job ID: 580-117330-1

Client Sample ID: MW103
Date Collected: 08/25/22 17:36
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-30
Matrix: Water

Method: SW846 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			09/08/22 21:47	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 21:47	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 21:47	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 21:47	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 21:47	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 21:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 21:47	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 21:47	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 21:47	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 21:47	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/08/22 21:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/08/22 21:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/08/22 21:47*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/08/22 21:47*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H *- *1	1.0	0.36	ug/L			09/22/22 21:59	1
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/22/22 21:59	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/22/22 21:59	1
cis-1,3-Dichloropropene	ND	H *+ *1	1.0	0.42	ug/L			09/22/22 21:59	1
trans-1,3-Dichloropropene	ND	H	1.0	0.41	ug/L			09/22/22 21:59	1
Chlorodibromomethane	ND	H	1.0	0.43	ug/L			09/22/22 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/22/22 21:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*09/22/22 21:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*09/22/22 21:59*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/22/22 21:59*	*1*

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

Job ID: 580-117330-1

Client Sample ID: Dup1

Date Collected: 08/23/22 12:37
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-31

Matrix: Water

Method: SW846 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			09/06/22 20:33	1
Chloromethane	0.42	J	1.0	0.28	ug/L			09/06/22 20:33	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 20:33	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 20:33	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 20:33	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 20:33	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 20:33	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 20:33	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 20:33	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 20:33	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 20:33	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 20:33	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/06/22 20:33	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 20:33	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 20:33	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 20:33	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 20:33	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 20:33	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 20:33	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 20:33	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 20:33	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 20:33	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 20:33	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 20:33	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 20:33	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 20:33	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 20:33	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 20:33	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 20:33	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 20:33	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 20:33	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 20:33	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 20:33	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 20:33	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 20:33	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 20:33	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 20:33	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 20:33	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 20:33	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 20:33	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 20:33	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 20:33	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 20:33	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 20:33	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 20:33	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 20:33	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 20:33	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 20:33	1

Client Sample ID: Dup1
Lab Sample ID: 580-117330-31

Date Collected: 08/23/22 12:37
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 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			09/06/22 20:33	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 20:33	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 20:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/06/22 20:33	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 20:33	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 20:33	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/06/22 20:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/06/22 20:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/06/22 20:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*09/06/22 20:33*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/06/22 20:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/22/22 22:24	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/22/22 22:24	1
Trichloroethene	ND	H	1.0	0.26	ug/L			09/22/22 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*09/22/22 22:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*09/22/22 22:24*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*09/22/22 22:24*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*09/22/22 22:24*	*1*

Client Sample ID: Purge Water
Lab Sample ID: 580-117330-32

Date Collected: 08/26/22 10:30
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	*1	100	28	ug/L			09/13/22 00:27	100
2-Butanone	ND		1500	470	ug/L			09/13/22 00:27	100
Benzene	ND		100	24	ug/L			09/13/22 00:27	100
Chlorobenzene	ND		100	44	ug/L			09/13/22 00:27	100
Chloroform	ND		100	26	ug/L			09/13/22 00:27	100
Tetrachloroethene	ND		100	41	ug/L			09/13/22 00:27	100
Trichloroethene	28	J	100	26	ug/L			09/13/22 00:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*		*09/13/22 00:27*	*100*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*09/13/22 00:27*	*100*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*09/13/22 00:27*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/13/22 00:27*	*100*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - TCLP - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	H	100	42	ug/L			09/21/22 13:49	100
Carbon tetrachloride	ND	H	100	30	ug/L			09/21/22 13:49	100
Vinyl chloride	ND	H *1	100	22	ug/L			09/21/22 13:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*09/21/22 13:49*	*100*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/21/22 13:49*	*100*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*09/21/22 13:49*	*100*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/21/22 13:49*	*100*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.20	ug/L		09/02/22 11:07	09/03/22 22:17	1
2-Methylphenol	ND		3.0	0.25	ug/L		09/02/22 11:07	09/03/22 22:17	1
3 & 4 Methylphenol	ND		3.0	0.50	ug/L		09/02/22 11:07	09/03/22 22:17	1
Hexachloroethane	ND		5.0	0.25	ug/L		09/02/22 11:07	09/03/22 22:17	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/02/22 11:07	09/03/22 22:17	1
Hexachlorobutadiene	ND	*-	5.0	0.40	ug/L		09/02/22 11:07	09/03/22 22:17	1
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		09/02/22 11:07	09/03/22 22:17	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/02/22 11:07	09/03/22 22:17	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		09/02/22 11:07	09/03/22 22:17	1
Hexachlorobenzene	ND		3.0	0.40	ug/L		09/02/22 11:07	09/03/22 22:17	1
Pentachlorophenol	ND		25	2.6	ug/L		09/02/22 11:07	09/03/22 22:17	1
Pyridine	ND	*1	50	5.3	ug/L		09/02/22 11:07	09/03/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*82*		*25 - 127*	*09/02/22 11:07*	*09/03/22 22:17*	*1*
Phenol-d5 (Surr)	*76*		*26 - 120*	*09/02/22 11:07*	*09/03/22 22:17*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*39 - 137*	*09/02/22 11:07*	*09/03/22 22:17*	*1*
Nitrobenzene-d5 (Surr)	*85*		*29 - 139*	*09/02/22 11:07*	*09/03/22 22:17*	*1*
2-Fluorobiphenyl	*69*		*36 - 120*	*09/02/22 11:07*	*09/03/22 22:17*	*1*
Terphenyl-d14 (Surr)	*98*		*66 - 150*	*09/02/22 11:07*	*09/03/22 22:17*	*1*

Client Sample Results

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: Purge Water
Lab Sample ID: 580-117330-32

Date Collected: 08/26/22 10:30
Matrix: Water
Date Received: 08/26/22 13:02

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		08/30/22 13:42	09/01/22 02:34	1
Barium	0.022		0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 02:34	1
Cadmium	ND		0.020	0.00090	mg/L		08/30/22 13:42	09/01/22 02:34	1
Chromium	ND		0.025	0.0027	mg/L		08/30/22 13:42	09/01/22 02:34	1
Copper	ND		0.060	0.0055	mg/L		08/30/22 13:42	09/01/22 02:34	1
Lead	0.0090	J B	0.030	0.0027	mg/L		08/30/22 13:42	09/01/22 02:34	1
Molybdenum	ND		0.040	0.0012	mg/L		08/30/22 13:42	09/01/22 02:34	1
Nickel	ND		0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 02:34	1
Selenium	ND		0.10	0.0087	mg/L		08/30/22 13:42	09/01/22 02:34	1
Silver	ND		0.050	0.0085	mg/L		08/30/22 13:42	09/01/22 02:34	1
Zinc	ND		0.040	0.0093	mg/L		08/30/22 13:42	09/01/22 02:34	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		08/30/22 13:16	08/30/22 23:16	1

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

Job ID: 580-117330-1

Client Sample ID: Trip Blank

Date Collected: 08/23/22 00:01
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-33

Matrix: Water

Method: SW846 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			09/06/22 16:28	1
Chloromethane	0.32	J	1.0	0.28	ug/L			09/06/22 16:28	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 16:28	1
Bromomethane	0.27	J	1.0	0.21	ug/L			09/06/22 16:28	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 16:28	1
Trichlorofluoromethane	0.36	J	1.0	0.36	ug/L			09/06/22 16:28	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 16:28	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 16:28	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 16:28	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 16:28	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 16:28	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 16:28	1
cis-1,2-Dichloroethene	0.90	J B	1.0	0.35	ug/L			09/06/22 16:28	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 16:28	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 16:28	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 16:28	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 16:28	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 16:28	1
Trichloroethene	1.5	B	1.0	0.26	ug/L			09/06/22 16:28	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 16:28	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 16:28	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 16:28	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 16:28	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 16:28	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 16:28	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 16:28	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 16:28	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 16:28	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 16:28	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 16:28	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 16:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 16:28	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 16:28	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 16:28	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 16:28	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 16:28	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 16:28	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 16:28	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 16:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 16:28	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 16:28	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 16:28	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 16:28	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 16:28	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 16:28	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 16:28	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 16:28	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 16:28	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 16:28	1

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

Job ID: 580-117330-1

Client Sample ID: Trip Blank

Date Collected: 08/23/22 00:01
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-33

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 16:28	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/06/22 16:28	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 16:28	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 16:28	1
1,2,4-Trichlorobenzene	0.45	J B	1.0	0.33	ug/L			09/06/22 16:28	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 16:28	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 16:28	1
1,2,3-Trichlorobenzene	0.54	J B	2.0	0.43	ug/L			09/06/22 16:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*		*09/06/22 16:28*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/06/22 16:28*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/06/22 16:28*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.39	ug/L			09/22/22 21:34	1
Carbon tetrachloride	ND	H	1.0	0.30	ug/L			09/22/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/22/22 21:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*09/22/22 21:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*09/22/22 21:34*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*09/22/22 21:34*	*1*

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

Job ID: 580-117330-1

Client Sample ID: MW24
Date Collected: 08/26/22 09:36
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-34
Matrix: Water

Method: SW846 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			09/08/22 22:35	1
Chloromethane	0.36	J	1.0	0.28	ug/L			09/08/22 22:35	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 22:35	1
Bromomethane	0.28	J	1.0	0.21	ug/L			09/08/22 22:35	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 22:35	1
Trichlorofluoromethane	0.36	J *1	1.0	0.36	ug/L			09/08/22 22:35	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 22:35	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 22:35	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 22:35	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 22:35	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 22:35	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 22:35	1
Chloroform	19		1.0	0.26	ug/L			09/08/22 22:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 22:35	1
Carbon tetrachloride	150		1.0	0.30	ug/L			09/08/22 22:35	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 22:35	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 22:35	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 22:35	1
Trichloroethene	68	B	1.0	0.26	ug/L			09/08/22 22:35	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 22:35	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 22:35	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 22:35	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 22:35	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 22:35	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 22:35	1
Tetrachloroethene	0.57	J	1.0	0.41	ug/L			09/08/22 22:35	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 22:35	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 22:35	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 22:35	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 22:35	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 22:35	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 22:35	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 22:35	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 22:35	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 22:35	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 22:35	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 22:35	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 22:35	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 22:35	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 22:35	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 22:35	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 22:35	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 22:35	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 22:35	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 22:35	1

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

Job ID: 580-117330-1

Client Sample ID: MW24
Date Collected: 08/26/22 09:36
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-34
Matrix: Water

Method: SW846 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			09/08/22 22:35	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 22:35	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 22:35	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 22:35	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 22:35	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 22:35	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 22:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/08/22 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/08/22 22:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/08/22 22:35*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/08/22 22:35*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H *1	5.0	1.8	ug/L			10/03/22 15:29	5
1,1,1-Trichloroethane	ND	H *1	5.0	2.0	ug/L			10/03/22 15:29	5
Carbon tetrachloride	ND	H *1	5.0	1.5	ug/L			10/03/22 15:29	5
cis-1,3-Dichloropropene	ND	H *+ *1	5.0	2.1	ug/L			10/03/22 15:29	5
trans-1,3-Dichloropropene	ND	H	5.0	2.1	ug/L			10/03/22 15:29	5
Chlorodibromomethane	ND	H	5.0	2.2	ug/L			10/03/22 15:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/03/22 15:29*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*10/03/22 15:29*	*5*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/03/22 15:29*	*5*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*10/03/22 15:29*	*5*

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

Job ID: 580-117330-1

Client Sample ID: Dup2
Date Collected: 08/26/22 09:38
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-35
Matrix: Water

Method: SW846 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			09/08/22 23:00	1
Chloromethane	0.37	J	1.0	0.28	ug/L			09/08/22 23:00	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 23:00	1
Bromomethane	0.28	J	1.0	0.21	ug/L			09/08/22 23:00	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 23:00	1
Trichlorofluoromethane	0.36	J *1	1.0	0.36	ug/L			09/08/22 23:00	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 23:00	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 23:00	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 23:00	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 23:00	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 23:00	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 23:00	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 23:00	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 23:00	1
Chloroform	19		1.0	0.26	ug/L			09/08/22 23:00	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 23:00	1
Carbon tetrachloride	150		1.0	0.30	ug/L			09/08/22 23:00	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 23:00	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 23:00	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 23:00	1
Trichloroethene	69	B	1.0	0.26	ug/L			09/08/22 23:00	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 23:00	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 23:00	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 23:00	1
cis-1,3-Dichloropropene	ND	*-	1.0	0.42	ug/L			09/08/22 23:00	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 23:00	1
trans-1,3-Dichloropropene	ND	*-	1.0	0.41	ug/L			09/08/22 23:00	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 23:00	1
Tetrachloroethene	0.56	J	1.0	0.41	ug/L			09/08/22 23:00	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 23:00	1
Chlorodibromomethane	ND	*-	1.0	0.43	ug/L			09/08/22 23:00	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 23:00	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 23:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 23:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 23:00	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 23:00	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 23:00	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 23:00	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 23:00	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 23:00	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 23:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 23:00	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 23:00	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 23:00	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 23:00	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 23:00	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 23:00	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 23:00	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 23:00	1

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

Job ID: 580-117330-1

Client Sample ID: Dup2
Date Collected: 08/26/22 09:38
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-35
Matrix: Water

Method: SW846 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			09/08/22 23:00	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 23:00	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 23:00	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 23:00	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 23:00	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 23:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 23:00	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 23:00	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 23:00	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 23:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/08/22 23:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/08/22 23:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/08/22 23:00*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*09/08/22 23:00*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND	H *1	5.0	1.8	ug/L			10/03/22 15:53	5
1,1,1-Trichloroethane	ND	H *1	5.0	2.0	ug/L			10/03/22 15:53	5
Carbon tetrachloride	**220**	**H *1**	5.0	1.5	ug/L			10/03/22 15:53	5
cis-1,3-Dichloropropene	ND	H *+ *1	5.0	2.1	ug/L			10/03/22 15:53	5
trans-1,3-Dichloropropene	ND	H	5.0	2.1	ug/L			10/03/22 15:53	5
Chlorodibromomethane	ND	H	5.0	2.2	ug/L			10/03/22 15:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*83*		*80 - 120*		*10/03/22 15:53*	*5*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*10/03/22 15:53*	*5*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*10/03/22 15:53*	*5*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*10/03/22 15:53*	*5*

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

Lab Sample ID: MB 580-402903/4
Matrix: Water
Analysis Batch: 402903

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			09/03/22 23:31	1
Chloromethane	ND		1.0	0.28	ug/L			09/03/22 23:31	1
Bromomethane	ND		1.0	0.21	ug/L			09/03/22 23:31	1
Chloroethane	ND		1.0	0.35	ug/L			09/03/22 23:31	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/03/22 23:31	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/03/22 23:31	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/03/22 23:31	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/03/22 23:31	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/03/22 23:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/03/22 23:31	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/03/22 23:31	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/03/22 23:31	1
cis-1,2-Dichloroethene	3.07		1.0	0.35	ug/L			09/03/22 23:31	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/03/22 23:31	1
Chloroform	ND		1.0	0.26	ug/L			09/03/22 23:31	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/03/22 23:31	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/03/22 23:31	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/03/22 23:31	1
Benzene	ND		1.0	0.24	ug/L			09/03/22 23:31	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/03/22 23:31	1
Trichloroethene	9.35		1.0	0.26	ug/L			09/03/22 23:31	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/03/22 23:31	1
Dibromomethane	ND		1.0	0.34	ug/L			09/03/22 23:31	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/03/22 23:31	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/03/22 23:31	1
Toluene	ND		1.0	0.39	ug/L			09/03/22 23:31	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/03/22 23:31	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/03/22 23:31	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/03/22 23:31	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/03/22 23:31	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/03/22 23:31	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/03/22 23:31	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/03/22 23:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/03/22 23:31	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/03/22 23:31	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/03/22 23:31	1
o-Xylene	ND		1.0	0.39	ug/L			09/03/22 23:31	1
Styrene	ND		1.0	0.53	ug/L			09/03/22 23:31	1
Bromoform	ND		1.0	0.51	ug/L			09/03/22 23:31	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/03/22 23:31	1
Bromobenzene	ND		1.0	0.43	ug/L			09/03/22 23:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/03/22 23:31	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/03/22 23:31	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/03/22 23:31	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/03/22 23:31	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/03/22 23:31	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/03/22 23:31	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/03/22 23:31	1

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

Lab Sample ID: MB 580-402903/4
Matrix: Water
Analysis Batch: 402903

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			09/03/22 23:31	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/03/22 23:31	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/03/22 23:31	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/22 23:31	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/03/22 23:31	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/03/22 23:31	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/03/22 23:31	1
1,2,4-Trichlorobenzene	0.465	J	1.0	0.33	ug/L			09/03/22 23:31	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/03/22 23:31	1
Naphthalene	ND		3.0	0.93	ug/L			09/03/22 23:31	1
1,2,3-Trichlorobenzene	0.500	J	2.0	0.43	ug/L			09/03/22 23:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/03/22 23:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/03/22 23:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/03/22 23:31*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/03/22 23:31*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/03/22 23:31*	*1*

Lab Sample ID: LCS 580-402903/5
Matrix: Water
Analysis Batch: 402903

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	10.2		ug/L		102	20 - 150
Chloromethane	10.0	11.5		ug/L		115	25 - 150
Bromomethane	10.0	10.5		ug/L		105	36 - 150
Chloroethane	10.0	11.0		ug/L		110	38 - 150
Trichlorofluoromethane	10.0	11.8		ug/L		118	45 - 148
1,1-Dichloroethene	10.0	9.76		ug/L		98	70 - 129
Methylene Chloride	10.0	9.99		ug/L		100	77 - 125
Methyl tert-butyl ether	10.0	9.66		ug/L		97	72 - 120
trans-1,2-Dichloroethene	10.0	9.55		ug/L		95	75 - 120
1,1-Dichloroethane	10.0	8.76		ug/L		88	80 - 120
Vinyl chloride	10.0	11.1		ug/L		111	31 - 150
2,2-Dichloropropane	10.0	10.6		ug/L		106	66 - 126
cis-1,2-Dichloroethene	10.0	13.1	*+	ug/L		131	76 - 120
Chlorobromomethane	10.0	10.6		ug/L		106	78 - 120
Chloroform	10.0	9.61		ug/L		96	78 - 127
1,1,1-Trichloroethane	10.0	8.25		ug/L		82	74 - 130
Carbon tetrachloride	10.0	7.50		ug/L		75	72 - 129
1,1-Dichloropropene	10.0	9.13		ug/L		91	74 - 120
Benzene	10.0	9.55		ug/L		95	80 - 122
1,2-Dichloroethane	10.0	8.64		ug/L		86	69 - 126
Trichloroethene	10.0	19.0	*+	ug/L		190	80 - 125
1,2-Dichloropropane	10.0	9.26		ug/L		93	80 - 120
Dibromomethane	10.0	11.6		ug/L		116	80 - 120
Dichlorobromomethane	10.0	8.51		ug/L		85	75 - 124

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

Lab Sample ID: LCS 580-402903/5
Matrix: Water
Analysis Batch: 402903

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	8.08		ug/L		81	77 - 120
Toluene	10.0	9.17		ug/L		92	80 - 120
trans-1,3-Dichloropropene	10.0	8.27		ug/L		83	76 - 122
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	10.3		ug/L		103	76 - 125
1,3-Dichloropropane	10.0	9.68		ug/L		97	79 - 120
Chlorodibromomethane	10.0	7.61		ug/L		76	73 - 125
Ethylene Dibromide	10.0	10.3		ug/L		103	79 - 126
Chlorobenzene	10.0	9.95		ug/L		99	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.32		ug/L		93	79 - 120
Ethylbenzene	10.0	9.32		ug/L		93	80 - 120
m-Xylene & p-Xylene	10.0	9.33		ug/L		93	80 - 120
o-Xylene	10.0	9.45		ug/L		94	80 - 120
Styrene	10.0	9.89		ug/L		99	76 - 122
Bromoform	10.0	8.37		ug/L		84	56 - 139
Isopropylbenzene	10.0	9.77		ug/L		98	80 - 123
Bromobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.91		ug/L		99	74 - 124
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	76 - 124
N-Propylbenzene	10.0	9.10		ug/L		91	80 - 122
2-Chlorotoluene	10.0	9.81		ug/L		98	80 - 120
4-Chlorotoluene	10.0	9.43		ug/L		94	73 - 129
tert-Butylbenzene	10.0	9.84		ug/L		98	75 - 123
1,2,4-Trimethylbenzene	10.0	9.39		ug/L		94	80 - 120
sec-Butylbenzene	10.0	9.41		ug/L		94	78 - 122
4-Isopropyltoluene	10.0	9.58		ug/L		96	77 - 126
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	77 - 127
1,4-Dichlorobenzene	10.0	9.96		ug/L		100	80 - 120
n-Butylbenzene	10.0	9.97		ug/L		100	57 - 133
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	65 - 133
1,2,4-Trichlorobenzene	10.0	11.5		ug/L		115	61 - 148
Hexachlorobutadiene	10.0	12.3		ug/L		123	74 - 131
Naphthalene	10.0	11.4		ug/L		114	63 - 150
1,2,3-Trichlorobenzene	10.0	11.6		ug/L		116	65 - 150
1,3,5-Trimethylbenzene	10.0	9.38		ug/L		94	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*

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

Lab Sample ID: LCSD 580-402903/6
Matrix: Water
Analysis Batch: 402903

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	8.97		ug/L		90	20 - 150	13	33
Chloromethane			10.0	11.0		ug/L		110	25 - 150	4	26
Bromomethane			10.0	11.2		ug/L		112	36 - 150	6	33
Chloroethane			10.0	11.4		ug/L		114	38 - 150	4	28
Trichlorofluoromethane			10.0	11.7		ug/L		117	45 - 148	1	35
1,1-Dichloroethene			10.0	8.74		ug/L		87	70 - 129	11	23
Methylene Chloride			10.0	9.14		ug/L		91	77 - 125	9	18
Methyl tert-butyl ether			10.0	9.51		ug/L		95	72 - 120	2	18
trans-1,2-Dichloroethene			10.0	9.44		ug/L		94	75 - 120	1	21
1,1-Dichloroethane			10.0	8.51		ug/L		85	80 - 120	3	15
Vinyl chloride			10.0	10.4		ug/L		104	31 - 150	6	26
2,2-Dichloropropane			10.0	9.85		ug/L		98	66 - 126	7	22
cis-1,2-Dichloroethene			10.0	12.0		ug/L		120	76 - 120	9	20
Chlorobromomethane			10.0	10.3		ug/L		103	78 - 120	3	13
Chloroform			10.0	9.36		ug/L		94	78 - 127	3	14
1,1,1-Trichloroethane			10.0	7.94		ug/L		79	74 - 130	4	19
Carbon tetrachloride			10.0	7.36		ug/L		74	72 - 129	2	19
1,1-Dichloropropene			10.0	9.39		ug/L		94	74 - 120	3	14
Benzene			10.0	9.51		ug/L		95	80 - 122	0	14
1,2-Dichloroethane			10.0	8.69		ug/L		87	69 - 126	1	11
Trichloroethene			10.0	18.0	*+	ug/L		180	80 - 125	6	13
1,2-Dichloropropane			10.0	9.14		ug/L		91	80 - 120	1	14
Dibromomethane			10.0	11.4		ug/L		114	80 - 120	2	11
Dichlorobromomethane			10.0	8.30		ug/L		83	75 - 124	2	13
cis-1,3-Dichloropropene			10.0	8.25		ug/L		83	77 - 120	2	35
Toluene			10.0	9.20		ug/L		92	80 - 120	0	13
trans-1,3-Dichloropropene			10.0	8.21		ug/L		82	76 - 122	1	20
1,1,2-Trichloroethane			10.0	10.3		ug/L		103	80 - 121	2	14
Tetrachloroethene			10.0	10.6		ug/L		106	76 - 125	3	13
1,3-Dichloropropane			10.0	9.73		ug/L		97	79 - 120	0	19
Chlorodibromomethane			10.0	7.55		ug/L		75	73 - 125	1	13
Ethylene Dibromide			10.0	10.3		ug/L		103	79 - 126	0	12
Chlorobenzene			10.0	9.86		ug/L		99	80 - 120	1	10
1,1,1,2-Tetrachloroethane			10.0	9.38		ug/L		94	79 - 120	1	16
Ethylbenzene			10.0	9.29		ug/L		93	80 - 120	0	14
m-Xylene & p-Xylene			10.0	9.23		ug/L		92	80 - 120	1	14
o-Xylene			10.0	9.32		ug/L		93	80 - 120	1	16
Styrene			10.0	9.79		ug/L		98	76 - 122	1	16
Bromoform			10.0	8.30		ug/L		83	56 - 139	1	21
Isopropylbenzene			10.0	9.47		ug/L		95	80 - 123	3	19
Bromobenzene			10.0	10.3		ug/L		103	80 - 120	1	24
1,1,2,2-Tetrachloroethane			10.0	9.87		ug/L		99	74 - 124	0	25
1,2,3-Trichloropropane			10.0	10.7		ug/L		107	76 - 124	1	26
N-Propylbenzene			10.0	9.25		ug/L		92	80 - 122	2	22
2-Chlorotoluene			10.0	9.85		ug/L		99	80 - 120	0	20
4-Chlorotoluene			10.0	9.93		ug/L		99	73 - 129	5	29
tert-Butylbenzene			10.0	9.90		ug/L		99	75 - 123	1	21
1,2,4-Trimethylbenzene			10.0	9.49		ug/L		95	80 - 120	1	16

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

Lab Sample ID: LCSD 580-402903/6
Matrix: Water
Analysis Batch: 402903

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	9.34		ug/L		93	78 - 122	1	15
4-Isopropyltoluene			10.0	9.43		ug/L		94	77 - 126	2	20
1,3-Dichlorobenzene			10.0	10.0		ug/L		100	77 - 127	0	35
1,4-Dichlorobenzene			10.0	9.96		ug/L		100	80 - 120	0	17
n-Butylbenzene			10.0	9.85		ug/L		99	57 - 133	1	14
1,2-Dichlorobenzene			10.0	10.4		ug/L		104	80 - 120	0	15
1,2-Dibromo-3-Chloropropane			10.0	10.7		ug/L		107	65 - 133	1	25
1,2,4-Trichlorobenzene			10.0	11.5		ug/L		115	61 - 148	1	27
Hexachlorobutadiene			10.0	12.6		ug/L		126	74 - 131	3	22
Naphthalene			10.0	11.9		ug/L		119	63 - 150	5	33
1,2,3-Trichlorobenzene			10.0	12.2		ug/L		122	65 - 150	4	33
1,3,5-Trimethylbenzene			10.0	9.38		ug/L		94	80 - 122	0	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 580-402999/4
Matrix: Water
Analysis Batch: 402999

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			09/06/22 12:46	1
Chloromethane	ND		1.0	0.28	ug/L			09/06/22 12:46	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 12:46	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 12:46	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 12:46	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 12:46	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 12:46	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 12:46	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 12:46	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 12:46	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 12:46	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 12:46	1
cis-1,2-Dichloroethene	0.580	J	1.0	0.35	ug/L			09/06/22 12:46	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 12:46	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 12:46	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 12:46	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 12:46	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 12:46	1
Trichloroethene	1.70		1.0	0.26	ug/L			09/06/22 12:46	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 12:46	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 12:46	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 12:46	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 12:46	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 12:46	1

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

Lab Sample ID: MB 580-402999/4
Matrix: Water
Analysis Batch: 402999

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 12:46	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 12:46	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 12:46	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 12:46	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 12:46	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 12:46	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 12:46	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 12:46	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 12:46	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 12:46	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 12:46	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 12:46	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 12:46	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 12:46	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 12:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 12:46	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 12:46	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 12:46	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 12:46	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 12:46	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 12:46	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 12:46	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 12:46	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 12:46	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 12:46	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 12:46	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/06/22 12:46	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 12:46	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 12:46	1
1,2,4-Trichlorobenzene	0.392	J	1.0	0.33	ug/L			09/06/22 12:46	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 12:46	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 12:46	1
1,2,3-Trichlorobenzene	0.544	J	2.0	0.43	ug/L			09/06/22 12:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*		*09/06/22 12:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/06/22 12:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/06/22 12:46*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*09/06/22 12:46*	*1*

Lab Sample ID: LCS 580-402999/5
Matrix: Water
Analysis Batch: 402999

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	8.04		ug/L		80	20 - 150
Chloromethane	10.0	8.47		ug/L		85	25 - 150

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

Lab Sample ID: LCS 580-402999/5
Matrix: Water
Analysis Batch: 402999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	10.0	8.95		ug/L		89	36 - 150
Chloroethane	10.0	10.1		ug/L		101	38 - 150
Trichlorofluoromethane	10.0	9.62		ug/L		96	45 - 148
1,1-Dichloroethene	10.0	9.13		ug/L		91	70 - 129
Methylene Chloride	10.0	9.42		ug/L		94	77 - 125
Methyl tert-butyl ether	10.0	9.80		ug/L		98	72 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	75 - 120
1,1-Dichloroethane	10.0	9.21		ug/L		92	80 - 120
Vinyl chloride	10.0	8.11		ug/L		81	31 - 150
2,2-Dichloropropane	10.0	11.3		ug/L		113	66 - 126
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	76 - 120
Chlorobromomethane	10.0	10.4		ug/L		104	78 - 120
Chloroform	10.0	9.27		ug/L		93	78 - 127
1,1-Dichloropropene	10.0	9.53		ug/L		95	74 - 120
Benzene	10.0	9.46		ug/L		95	80 - 122
1,2-Dichloroethane	10.0	8.50		ug/L		85	69 - 126
Trichloroethene	10.0	12.0		ug/L		120	80 - 125
1,2-Dichloropropane	10.0	8.96		ug/L		90	80 - 120
Dibromomethane	10.0	11.5		ug/L		115	80 - 120
Dichlorobromomethane	10.0	8.44		ug/L		84	75 - 124
cis-1,3-Dichloropropene	10.0	7.86		ug/L		79	77 - 120
Toluene	10.0	9.17		ug/L		92	80 - 120
trans-1,3-Dichloropropene	10.0	7.86		ug/L		79	76 - 122
1,1,2-Trichloroethane	10.0	9.99		ug/L		100	80 - 121
Tetrachloroethene	10.0	11.1		ug/L		111	76 - 125
1,3-Dichloropropane	10.0	9.34		ug/L		93	79 - 120
Chlorodibromomethane	10.0	7.94		ug/L		79	73 - 125
Ethylene Dibromide	10.0	10.2		ug/L		102	79 - 126
Chlorobenzene	10.0	9.73		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.47		ug/L		95	79 - 120
Ethylbenzene	10.0	9.04		ug/L		90	80 - 120
m-Xylene & p-Xylene	10.0	8.96		ug/L		90	80 - 120
o-Xylene	10.0	9.04		ug/L		90	80 - 120
Styrene	10.0	9.48		ug/L		95	76 - 122
Bromoform	10.0	8.51		ug/L		85	56 - 139
Isopropylbenzene	10.0	9.37		ug/L		94	80 - 123
Bromobenzene	10.0	9.76		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	74 - 124
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	76 - 124
N-Propylbenzene	10.0	9.13		ug/L		91	80 - 122
2-Chlorotoluene	10.0	9.60		ug/L		96	80 - 120
4-Chlorotoluene	10.0	9.30		ug/L		93	73 - 129
tert-Butylbenzene	10.0	9.63		ug/L		96	75 - 123
1,2,4-Trimethylbenzene	10.0	9.11		ug/L		91	80 - 120
sec-Butylbenzene	10.0	9.14		ug/L		91	78 - 122
4-Isopropyltoluene	10.0	9.14		ug/L		91	77 - 126
1,3-Dichlorobenzene	10.0	9.63		ug/L		96	77 - 127
1,4-Dichlorobenzene	10.0	9.61		ug/L		96	80 - 120
n-Butylbenzene	10.0	9.73		ug/L		97	57 - 133

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

Lab Sample ID: LCS 580-402999/5
Matrix: Water
Analysis Batch: 402999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dichlorobenzene			10.0	10.1		ug/L		101	80 - 120		
1,2-Dibromo-3-Chloropropane			10.0	11.4		ug/L		114	65 - 133		
1,2,4-Trichlorobenzene			10.0	11.2		ug/L		112	61 - 148		
Hexachlorobutadiene			10.0	12.3		ug/L		123	74 - 131		
Naphthalene			10.0	11.5		ug/L		115	63 - 150		
1,2,3-Trichlorobenzene			10.0	11.8		ug/L		118	65 - 150		
1,3,5-Trimethylbenzene			10.0	9.09		ug/L		91	80 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 580-402999/6
Matrix: Water
Analysis Batch: 402999

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	7.26		ug/L		73	20 - 150	10	33
Chloromethane			10.0	8.18		ug/L		82	25 - 150	3	26
Bromomethane			10.0	8.91		ug/L		89	36 - 150	0	33
Chloroethane			10.0	9.22		ug/L		92	38 - 150	9	28
Trichlorofluoromethane			10.0	10.9		ug/L		109	45 - 148	13	35
1,1-Dichloroethene			10.0	8.60		ug/L		86	70 - 129	6	23
Methylene Chloride			10.0	8.63		ug/L		86	77 - 125	9	18
Methyl tert-butyl ether			10.0	9.60		ug/L		96	72 - 120	2	18
trans-1,2-Dichloroethene			10.0	8.65		ug/L		86	75 - 120	15	21
1,1-Dichloroethane			10.0	8.37		ug/L		84	80 - 120	10	15
Vinyl chloride			10.0	8.38		ug/L		84	31 - 150	3	26
2,2-Dichloropropane			10.0	10.4		ug/L		104	66 - 126	8	22
cis-1,2-Dichloroethene			10.0	9.99		ug/L		100	76 - 120	8	20
Chlorobromomethane			10.0	9.91		ug/L		99	78 - 120	5	13
Chloroform			10.0	9.26		ug/L		93	78 - 127	0	14
1,1-Dichloropropene			10.0	9.50		ug/L		95	74 - 120	0	14
Benzene			10.0	9.45		ug/L		94	80 - 122	0	14
1,2-Dichloroethane			10.0	8.42		ug/L		84	69 - 126	1	11
Trichloroethene			10.0	11.8		ug/L		118	80 - 125	2	13
1,2-Dichloropropane			10.0	9.08		ug/L		91	80 - 120	1	14
Dibromomethane			10.0	11.2		ug/L		112	80 - 120	3	11
Dichlorobromomethane			10.0	8.05		ug/L		81	75 - 124	5	13
cis-1,3-Dichloropropene			10.0	8.00		ug/L		80	77 - 120	2	35
Toluene			10.0	9.34		ug/L		93	80 - 120	2	13
trans-1,3-Dichloropropene			10.0	7.92		ug/L		79	76 - 122	1	20
1,1,2-Trichloroethane			10.0	10.3		ug/L		103	80 - 121	3	14
Tetrachloroethene			10.0	11.5		ug/L		115	76 - 125	4	13
1,3-Dichloropropane			10.0	9.54		ug/L		95	79 - 120	2	19
Chlorodibromomethane			10.0	7.62		ug/L		76	73 - 125	4	13

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

Lab Sample ID: LCSD 580-402999/6
Matrix: Water
Analysis Batch: 402999

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
Ethylene Dibromide	10.0	10.4		ug/L		104	79 - 126	2	12
Chlorobenzene	10.0	9.75		ug/L		98	80 - 120	0	10
1,1,1,2-Tetrachloroethane	10.0	9.51		ug/L		95	79 - 120	0	16
Ethylbenzene	10.0	9.15		ug/L		91	80 - 120	1	14
m-Xylene & p-Xylene	10.0	9.05		ug/L		91	80 - 120	1	14
o-Xylene	10.0	9.08		ug/L		91	80 - 120	0	16
Styrene	10.0	9.40		ug/L		94	76 - 122	1	16
Bromoform	10.0	8.19		ug/L		82	56 - 139	4	21
Isopropylbenzene	10.0	9.31		ug/L		93	80 - 123	1	19
Bromobenzene	10.0	10.2		ug/L		102	80 - 120	4	24
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	74 - 124	3	25
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	76 - 124	0	26
N-Propylbenzene	10.0	9.32		ug/L		93	80 - 122	2	22
2-Chlorotoluene	10.0	9.66		ug/L		97	80 - 120	1	20
4-Chlorotoluene	10.0	9.60		ug/L		96	73 - 129	3	29
tert-Butylbenzene	10.0	9.81		ug/L		98	75 - 123	2	21
1,2,4-Trimethylbenzene	10.0	9.07		ug/L		91	80 - 120	0	16
sec-Butylbenzene	10.0	9.25		ug/L		92	78 - 122	1	15
4-Isopropyltoluene	10.0	9.42		ug/L		94	77 - 126	3	20
1,3-Dichlorobenzene	10.0	9.81		ug/L		98	77 - 127	2	35
1,4-Dichlorobenzene	10.0	9.66		ug/L		97	80 - 120	1	17
n-Butylbenzene	10.0	9.93		ug/L		99	57 - 133	2	14
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120	2	15
1,2-Dibromo-3-Chloropropane	10.0	11.9		ug/L		119	65 - 133	5	25
1,2,4-Trichlorobenzene	10.0	11.5		ug/L		115	61 - 148	3	27
Hexachlorobutadiene	10.0	12.8		ug/L		128	74 - 131	4	22
Naphthalene	10.0	11.9		ug/L		119	63 - 150	3	33
1,2,3-Trichlorobenzene	10.0	12.2		ug/L		122	65 - 150	3	33
1,3,5-Trimethylbenzene	10.0	9.33		ug/L		93	80 - 122	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 580-403032/4
Matrix: Water
Analysis Batch: 403032

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			09/06/22 23:26	1
Chloromethane	ND		1.0	0.28	ug/L			09/06/22 23:26	1
Bromomethane	ND		1.0	0.21	ug/L			09/06/22 23:26	1
Chloroethane	ND		1.0	0.35	ug/L			09/06/22 23:26	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/06/22 23:26	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/06/22 23:26	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/06/22 23:26	1

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

Lab Sample ID: MB 580-403032/4
Matrix: Water
Analysis Batch: 403032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/06/22 23:26	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/06/22 23:26	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/06/22 23:26	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/06/22 23:26	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/06/22 23:26	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/06/22 23:26	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 23:26	1
Chloroform	ND		1.0	0.26	ug/L			09/06/22 23:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/06/22 23:26	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/06/22 23:26	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/06/22 23:26	1
Benzene	ND		1.0	0.24	ug/L			09/06/22 23:26	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/06/22 23:26	1
Trichloroethene	0.674	J	1.0	0.26	ug/L			09/06/22 23:26	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/06/22 23:26	1
Dibromomethane	ND		1.0	0.34	ug/L			09/06/22 23:26	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/06/22 23:26	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/06/22 23:26	1
Toluene	ND		1.0	0.39	ug/L			09/06/22 23:26	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/06/22 23:26	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/06/22 23:26	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/06/22 23:26	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/06/22 23:26	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/06/22 23:26	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/06/22 23:26	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/06/22 23:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/06/22 23:26	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/06/22 23:26	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/06/22 23:26	1
o-Xylene	ND		1.0	0.39	ug/L			09/06/22 23:26	1
Styrene	ND		1.0	0.53	ug/L			09/06/22 23:26	1
Bromoform	ND		1.0	0.51	ug/L			09/06/22 23:26	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/06/22 23:26	1
Bromobenzene	ND		1.0	0.43	ug/L			09/06/22 23:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/06/22 23:26	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/06/22 23:26	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/06/22 23:26	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/06/22 23:26	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/06/22 23:26	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/06/22 23:26	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/06/22 23:26	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/06/22 23:26	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/06/22 23:26	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/06/22 23:26	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 23:26	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/06/22 23:26	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/06/22 23:26	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/06/22 23:26	1
1,2,4-Trichlorobenzene	0.354	J	1.0	0.33	ug/L			09/06/22 23:26	1

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

Lab Sample ID: MB 580-403032/4
Matrix: Water
Analysis Batch: 403032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/06/22 23:26	1
Naphthalene	ND		3.0	0.93	ug/L			09/06/22 23:26	1
1,2,3-Trichlorobenzene	0.460	J	2.0	0.43	ug/L			09/06/22 23:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/06/22 23:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/06/22 23:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/06/22 23:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/06/22 23:26*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*09/06/22 23:26*	*1*

Lab Sample ID: LCS 580-403032/5
Matrix: Water
Analysis Batch: 403032

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	6.56		ug/L		66	20 - 150
Chloromethane	10.0	9.59		ug/L		96	25 - 150
Bromomethane	10.0	10.3		ug/L		103	36 - 150
Chloroethane	10.0	8.75		ug/L		87	38 - 150
Trichlorofluoromethane	10.0	12.3		ug/L		123	45 - 148
1,1-Dichloroethene	10.0	9.67		ug/L		97	70 - 129
Methylene Chloride	10.0	8.75		ug/L		88	77 - 125
Methyl tert-butyl ether	10.0	9.77		ug/L		98	72 - 120
trans-1,2-Dichloroethene	10.0	9.54		ug/L		95	75 - 120
1,1-Dichloroethane	10.0	8.67		ug/L		87	80 - 120
Vinyl chloride	10.0	9.08		ug/L		91	31 - 150
2,2-Dichloropropane	10.0	10.0		ug/L		100	66 - 126
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	76 - 120
Chlorobromomethane	10.0	10.4		ug/L		104	78 - 120
Chloroform	10.0	9.64		ug/L		96	78 - 127
1,1,1-Trichloroethane	10.0	8.03		ug/L		80	74 - 130
Carbon tetrachloride	10.0	7.60		ug/L		76	72 - 129
1,1-Dichloropropene	10.0	9.73		ug/L		97	74 - 120
Benzene	10.0	9.60		ug/L		96	80 - 122
1,2-Dichloroethane	10.0	8.83		ug/L		88	69 - 126
Trichloroethene	10.0	11.3		ug/L		113	80 - 125
1,2-Dichloropropane	10.0	9.46		ug/L		95	80 - 120
Dibromomethane	10.0	11.6		ug/L		116	80 - 120
Dichlorobromomethane	10.0	8.62		ug/L		86	75 - 124
cis-1,3-Dichloropropene	10.0	8.27		ug/L		83	77 - 120
Toluene	10.0	9.62		ug/L		96	80 - 120
trans-1,3-Dichloropropene	10.0	8.02		ug/L		80	76 - 122
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 121
Tetrachloroethene	10.0	12.3		ug/L		123	76 - 125
1,3-Dichloropropane	10.0	10.0		ug/L		100	79 - 120
Chlorodibromomethane	10.0	7.68		ug/L		77	73 - 125
Ethylene Dibromide	10.0	10.7		ug/L		107	79 - 126

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

Lab Sample ID: LCS 580-403032/5
Matrix: Water
Analysis Batch: 403032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.65		ug/L		96	79 - 120
Ethylbenzene	10.0	9.53		ug/L		95	80 - 120
m-Xylene & p-Xylene	10.0	9.65		ug/L		97	80 - 120
o-Xylene	10.0	9.35		ug/L		94	80 - 120
Styrene	10.0	9.63		ug/L		96	76 - 122
Bromoform	10.0	7.69		ug/L		77	56 - 139
Isopropylbenzene	10.0	9.47		ug/L		95	80 - 123
Bromobenzene	10.0	10.7		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	74 - 124
1,2,3-Trichloropropane	10.0	11.3		ug/L		113	76 - 124
N-Propylbenzene	10.0	9.88		ug/L		99	80 - 122
2-Chlorotoluene	10.0	10.5		ug/L		105	80 - 120
4-Chlorotoluene	10.0	10.2		ug/L		102	73 - 129
tert-Butylbenzene	10.0	10.1		ug/L		101	75 - 123
1,2,4-Trimethylbenzene	10.0	9.51		ug/L		95	80 - 120
sec-Butylbenzene	10.0	9.52		ug/L		95	78 - 122
4-Isopropyltoluene	10.0	9.56		ug/L		96	77 - 126
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	77 - 127
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
n-Butylbenzene	10.0	9.65		ug/L		97	57 - 133
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.5		ug/L		115	65 - 133
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	61 - 148
Hexachlorobutadiene	10.0	11.3		ug/L		113	74 - 131
Naphthalene	10.0	11.6		ug/L		116	63 - 150
1,2,3-Trichlorobenzene	10.0	11.8		ug/L		118	65 - 150
1,3,5-Trimethylbenzene	10.0	9.77		ug/L		98	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-403032/6
Matrix: Water
Analysis Batch: 403032

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	7.85		ug/L		79	20 - 150	18	33
Chloromethane	10.0	9.20		ug/L		92	25 - 150	4	26
Bromomethane	10.0	9.97		ug/L		100	36 - 150	3	33
Chloroethane	10.0	9.30		ug/L		93	38 - 150	6	28
Trichlorofluoromethane	10.0	12.6		ug/L		126	45 - 148	2	35
1,1-Dichloroethene	10.0	9.81		ug/L		98	70 - 129	1	23
Methylene Chloride	10.0	9.30		ug/L		93	77 - 125	6	18
Methyl tert-butyl ether	10.0	9.67		ug/L		97	72 - 120	1	18

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

Lab Sample ID: LCSD 580-403032/6
Matrix: Water
Analysis Batch: 403032

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
trans-1,2-Dichloroethene			10.0	9.16		ug/L		92	75 - 120	4	21
1,1-Dichloroethane			10.0	8.81		ug/L		88	80 - 120	2	15
Vinyl chloride			10.0	8.47		ug/L		85	31 - 150	7	26
2,2-Dichloropropane			10.0	9.82		ug/L		98	66 - 126	2	22
cis-1,2-Dichloroethene			10.0	9.96		ug/L		100	76 - 120	2	20
Chlorobromomethane			10.0	10.3		ug/L		103	78 - 120	1	13
Chloroform			10.0	9.32		ug/L		93	78 - 127	3	14
1,1,1-Trichloroethane			10.0	8.13		ug/L		81	74 - 130	1	19
Carbon tetrachloride			10.0	7.72		ug/L		77	72 - 129	1	19
1,1-Dichloropropene			10.0	9.39		ug/L		94	74 - 120	4	14
Benzene			10.0	9.53		ug/L		95	80 - 122	1	14
1,2-Dichloroethane			10.0	8.84		ug/L		88	69 - 126	0	11
Trichloroethene			10.0	11.4		ug/L		114	80 - 125	1	13
1,2-Dichloropropane			10.0	9.31		ug/L		93	80 - 120	2	14
Dibromomethane			10.0	11.4		ug/L		114	80 - 120	2	11
Dichlorobromomethane			10.0	8.52		ug/L		85	75 - 124	1	13
cis-1,3-Dichloropropene			10.0	8.12		ug/L		81	77 - 120	2	35
Toluene			10.0	9.57		ug/L		96	80 - 120	1	13
trans-1,3-Dichloropropene			10.0	8.35		ug/L		83	76 - 122	4	20
1,1,2-Trichloroethane			10.0	10.4		ug/L		104	80 - 121	1	14
Tetrachloroethene			10.0	11.1		ug/L		111	76 - 125	10	13
1,3-Dichloropropane			10.0	10.1		ug/L		101	79 - 120	0	19
Chlorodibromomethane			10.0	7.95		ug/L		80	73 - 125	3	13
Ethylene Dibromide			10.0	10.7		ug/L		107	79 - 126	0	12
Chlorobenzene			10.0	10.1		ug/L		101	80 - 120	1	10
1,1,1,2-Tetrachloroethane			10.0	9.51		ug/L		95	79 - 120	1	16
Ethylbenzene			10.0	9.38		ug/L		94	80 - 120	2	14
m-Xylene & p-Xylene			10.0	9.44		ug/L		94	80 - 120	2	14
o-Xylene			10.0	9.57		ug/L		96	80 - 120	2	16
Styrene			10.0	9.72		ug/L		97	76 - 122	1	16
Bromoform			10.0	7.99		ug/L		80	56 - 139	4	21
Isopropylbenzene			10.0	9.63		ug/L		96	80 - 123	2	19
Bromobenzene			10.0	10.1		ug/L		101	80 - 120	6	24
1,1,2,2-Tetrachloroethane			10.0	10.1		ug/L		101	74 - 124	5	25
1,2,3-Trichloropropane			10.0	11.1		ug/L		111	76 - 124	1	26
N-Propylbenzene			10.0	9.24		ug/L		92	80 - 122	7	22
2-Chlorotoluene			10.0	9.81		ug/L		98	80 - 120	6	20
4-Chlorotoluene			10.0	9.92		ug/L		99	73 - 129	3	29
tert-Butylbenzene			10.0	9.92		ug/L		99	75 - 123	2	21
1,2,4-Trimethylbenzene			10.0	9.40		ug/L		94	80 - 120	1	16
sec-Butylbenzene			10.0	9.43		ug/L		94	78 - 122	1	15
4-Isopropyltoluene			10.0	9.50		ug/L		95	77 - 126	1	20
1,3-Dichlorobenzene			10.0	9.96		ug/L		100	77 - 127	1	35
1,4-Dichlorobenzene			10.0	10.0		ug/L		100	80 - 120	0	17
n-Butylbenzene			10.0	9.79		ug/L		98	57 - 133	1	14
1,2-Dichlorobenzene			10.0	10.5		ug/L		105	80 - 120	1	15
1,2-Dibromo-3-Chloropropane			10.0	10.9		ug/L		109	65 - 133	5	25
1,2,4-Trichlorobenzene			10.0	11.5		ug/L		115	61 - 148	5	27
Hexachlorobutadiene			10.0	12.8		ug/L		128	74 - 131	13	22

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

Lab Sample ID: LCSD 580-403032/6
Matrix: Water
Analysis Batch: 403032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			10.0	11.7		ug/L		117	63 - 150	2	33
1,2,3-Trichlorobenzene			10.0	12.0		ug/L		120	65 - 150	2	33
1,3,5-Trimethylbenzene			10.0	9.48		ug/L		95	80 - 122	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 580-403144/4
Matrix: Water
Analysis Batch: 403144

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			09/07/22 12:00	1
Chloromethane	ND		1.0	0.28	ug/L			09/07/22 12:00	1
Bromomethane	ND		1.0	0.21	ug/L			09/07/22 12:00	1
Chloroethane	ND		1.0	0.35	ug/L			09/07/22 12:00	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/07/22 12:00	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/07/22 12:00	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/07/22 12:00	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/07/22 12:00	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/07/22 12:00	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/07/22 12:00	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/07/22 12:00	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/07/22 12:00	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/07/22 12:00	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 12:00	1
Chloroform	ND		1.0	0.26	ug/L			09/07/22 12:00	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/07/22 12:00	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/07/22 12:00	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/07/22 12:00	1
Benzene	ND		1.0	0.24	ug/L			09/07/22 12:00	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/07/22 12:00	1
Trichloroethene	0.648	J	1.0	0.26	ug/L			09/07/22 12:00	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/07/22 12:00	1
Dibromomethane	ND		1.0	0.34	ug/L			09/07/22 12:00	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/07/22 12:00	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/07/22 12:00	1
Toluene	ND		1.0	0.39	ug/L			09/07/22 12:00	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/07/22 12:00	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/07/22 12:00	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/07/22 12:00	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/07/22 12:00	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/07/22 12:00	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/07/22 12:00	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/07/22 12:00	1

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

Lab Sample ID: MB 580-403144/4
Matrix: Water
Analysis Batch: 403144

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/07/22 12:00	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/07/22 12:00	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/07/22 12:00	1
o-Xylene	ND		1.0	0.39	ug/L			09/07/22 12:00	1
Styrene	ND		1.0	0.53	ug/L			09/07/22 12:00	1
Bromoform	ND		1.0	0.51	ug/L			09/07/22 12:00	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/07/22 12:00	1
Bromobenzene	ND		1.0	0.43	ug/L			09/07/22 12:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/07/22 12:00	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/07/22 12:00	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/07/22 12:00	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/07/22 12:00	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/07/22 12:00	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/07/22 12:00	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/07/22 12:00	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/07/22 12:00	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/07/22 12:00	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/07/22 12:00	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 12:00	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/07/22 12:00	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/07/22 12:00	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/07/22 12:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/07/22 12:00	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/07/22 12:00	1
Naphthalene	ND		3.0	0.93	ug/L			09/07/22 12:00	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/07/22 12:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/07/22 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/07/22 12:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/07/22 12:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/07/22 12:00*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/07/22 12:00*	*1*

Lab Sample ID: LCS 580-403144/5
Matrix: Water
Analysis Batch: 403144

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	6.92		ug/L		69	20 - 150
Chloromethane	10.0	7.98		ug/L		80	25 - 150
Bromomethane	10.0	8.87		ug/L		89	36 - 150
Chloroethane	10.0	9.86		ug/L		99	38 - 150
Trichlorofluoromethane	10.0	12.1		ug/L		121	45 - 148
1,1-Dichloroethene	10.0	10.6		ug/L		106	70 - 129
Methylene Chloride	10.0	8.74		ug/L		87	77 - 125
Methyl tert-butyl ether	10.0	9.74		ug/L		97	72 - 120
trans-1,2-Dichloroethene	10.0	9.60		ug/L		96	75 - 120

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

Lab Sample ID: LCS 580-403144/5
Matrix: Water
Analysis Batch: 403144

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	8.91		ug/L		89	80 - 120
Vinyl chloride	10.0	8.59		ug/L		86	31 - 150
2,2-Dichloropropane	10.0	10.9		ug/L		109	66 - 126
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	76 - 120
Chlorobromomethane	10.0	10.5		ug/L		105	78 - 120
Chloroform	10.0	9.44		ug/L		94	78 - 127
1,1,1-Trichloroethane	10.0	8.17		ug/L		82	74 - 130
Carbon tetrachloride	10.0	8.12		ug/L		81	72 - 129
1,1-Dichloropropene	10.0	9.71		ug/L		97	74 - 120
Benzene	10.0	9.75		ug/L		97	80 - 122
1,2-Dichloroethane	10.0	9.01		ug/L		90	69 - 126
Trichloroethene	10.0	11.4		ug/L		114	80 - 125
1,2-Dichloropropane	10.0	9.34		ug/L		93	80 - 120
Dibromomethane	10.0	11.8		ug/L		118	80 - 120
Dichlorobromomethane	10.0	8.48		ug/L		85	75 - 124
cis-1,3-Dichloropropene	10.0	8.48		ug/L		85	77 - 120
Toluene	10.0	9.77		ug/L		98	80 - 120
trans-1,3-Dichloropropene	10.0	8.43		ug/L		84	76 - 122
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 121
Tetrachloroethene	10.0	11.7		ug/L		117	76 - 125
1,3-Dichloropropane	10.0	10.0		ug/L		100	79 - 120
Chlorodibromomethane	10.0	7.65		ug/L		77	73 - 125
Ethylene Dibromide	10.0	10.8		ug/L		108	79 - 126
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.73		ug/L		97	79 - 120
Ethylbenzene	10.0	9.62		ug/L		96	80 - 120
m-Xylene & p-Xylene	10.0	9.65		ug/L		96	80 - 120
o-Xylene	10.0	9.57		ug/L		96	80 - 120
Styrene	10.0	9.90		ug/L		99	76 - 122
Bromoform	10.0	7.81		ug/L		78	56 - 139
Isopropylbenzene	10.0	9.82		ug/L		98	80 - 123
Bromobenzene	10.0	10.4		ug/L		104	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	74 - 124
1,2,3-Trichloropropane	10.0	11.1		ug/L		111	76 - 124
N-Propylbenzene	10.0	9.48		ug/L		95	80 - 122
2-Chlorotoluene	10.0	10.1		ug/L		101	80 - 120
4-Chlorotoluene	10.0	9.92		ug/L		99	73 - 129
tert-Butylbenzene	10.0	10.1		ug/L		101	75 - 123
1,2,4-Trimethylbenzene	10.0	9.65		ug/L		96	80 - 120
sec-Butylbenzene	10.0	9.64		ug/L		96	78 - 122
4-Isopropyltoluene	10.0	9.71		ug/L		97	77 - 126
1,3-Dichlorobenzene	10.0	10.2		ug/L		102	77 - 127
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
n-Butylbenzene	10.0	10.0		ug/L		100	57 - 133
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	11.2		ug/L		112	65 - 133
1,2,4-Trichlorobenzene	10.0	11.7		ug/L		117	61 - 148
Hexachlorobutadiene	10.0	12.8		ug/L		128	74 - 131
Naphthalene	10.0	11.6		ug/L		116	63 - 150

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

Lab Sample ID: LCS 580-403144/5
Matrix: Water
Analysis Batch: 403144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	10.0	12.2		ug/L		122	65 - 150
1,3,5-Trimethylbenzene	10.0	9.65		ug/L		97	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 580-403144/6
Matrix: Water
Analysis Batch: 403144

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	7.19		ug/L		72	20 - 150	4	33
Chloromethane	10.0	8.53		ug/L		85	25 - 150	7	26
Bromomethane	10.0	9.60		ug/L		96	36 - 150	8	33
Chloroethane	10.0	11.2		ug/L		112	38 - 150	12	28
Trichlorofluoromethane	10.0	12.4		ug/L		124	45 - 148	2	35
1,1-Dichloroethene	10.0	10.4		ug/L		104	70 - 129	2	23
Methylene Chloride	10.0	9.27		ug/L		93	77 - 125	6	18
Methyl tert-butyl ether	10.0	9.59		ug/L		96	72 - 120	2	18
trans-1,2-Dichloroethene	10.0	9.31		ug/L		93	75 - 120	3	21
1,1-Dichloroethane	10.0	8.65		ug/L		87	80 - 120	3	15
Vinyl chloride	10.0	9.47		ug/L		95	31 - 150	10	26
2,2-Dichloropropane	10.0	10.9		ug/L		109	66 - 126	0	22
cis-1,2-Dichloroethene	10.0	9.97		ug/L		100	76 - 120	2	20
Chlorobromomethane	10.0	10.8		ug/L		108	78 - 120	2	13
Chloroform	10.0	9.39		ug/L		94	78 - 127	1	14
1,1,1-Trichloroethane	10.0	8.39		ug/L		84	74 - 130	3	19
Carbon tetrachloride	10.0	8.15		ug/L		81	72 - 129	0	19
1,1-Dichloropropene	10.0	9.39		ug/L		94	74 - 120	3	14
Benzene	10.0	9.53		ug/L		95	80 - 122	2	14
1,2-Dichloroethane	10.0	8.71		ug/L		87	69 - 126	3	11
Trichloroethene	10.0	11.5		ug/L		115	80 - 125	1	13
1,2-Dichloropropane	10.0	9.32		ug/L		93	80 - 120	0	14
Dibromomethane	10.0	11.8		ug/L		118	80 - 120	0	11
Dichlorobromomethane	10.0	8.34		ug/L		83	75 - 124	2	13
cis-1,3-Dichloropropene	10.0	8.03		ug/L		80	77 - 120	5	35
Toluene	10.0	9.34		ug/L		93	80 - 120	5	13
trans-1,3-Dichloropropene	10.0	8.02		ug/L		80	76 - 122	5	20
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 121	3	14
Tetrachloroethene	10.0	11.1		ug/L		111	76 - 125	5	13
1,3-Dichloropropane	10.0	9.54		ug/L		95	79 - 120	5	19
Chlorodibromomethane	10.0	7.44		ug/L		74	73 - 125	3	13
Ethylene Dibromide	10.0	10.4		ug/L		104	79 - 126	4	12
Chlorobenzene	10.0	9.94		ug/L		99	80 - 120	3	10
1,1,1,2-Tetrachloroethane	10.0	9.43		ug/L		94	79 - 120	3	16

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

Lab Sample ID: LCSD 580-403144/6
Matrix: Water
Analysis Batch: 403144

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
Ethylbenzene			10.0	9.20		ug/L		92	80 - 120	4	14
m-Xylene & p-Xylene			10.0	9.19		ug/L		92	80 - 120	5	14
o-Xylene			10.0	9.32		ug/L		93	80 - 120	3	16
Styrene			10.0	9.60		ug/L		96	76 - 122	3	16
Bromoform			10.0	7.64		ug/L		76	56 - 139	2	21
Isopropylbenzene			10.0	9.48		ug/L		95	80 - 123	3	19
Bromobenzene			10.0	10.2		ug/L		102	80 - 120	1	24
1,1,2,2-Tetrachloroethane			10.0	9.85		ug/L		99	74 - 124	5	25
1,2,3-Trichloropropane			10.0	10.4		ug/L		104	76 - 124	6	26
N-Propylbenzene			10.0	9.19		ug/L		92	80 - 122	3	22
2-Chlorotoluene			10.0	9.75		ug/L		97	80 - 120	4	20
4-Chlorotoluene			10.0	9.65		ug/L		97	73 - 129	3	29
tert-Butylbenzene			10.0	9.94		ug/L		99	75 - 123	2	21
1,2,4-Trimethylbenzene			10.0	9.21		ug/L		92	80 - 120	5	16
sec-Butylbenzene			10.0	9.38		ug/L		94	78 - 122	3	15
4-Isopropyltoluene			10.0	9.42		ug/L		94	77 - 126	3	20
1,3-Dichlorobenzene			10.0	10.0		ug/L		100	77 - 127	1	35
1,4-Dichlorobenzene			10.0	9.94		ug/L		99	80 - 120	2	17
n-Butylbenzene			10.0	9.84		ug/L		98	57 - 133	2	14
1,2-Dichlorobenzene			10.0	10.4		ug/L		104	80 - 120	2	15
1,2-Dibromo-3-Chloropropane			10.0	10.4		ug/L		104	65 - 133	7	25
1,2,4-Trichlorobenzene			10.0	11.5		ug/L		115	61 - 148	2	27
Hexachlorobutadiene			10.0	13.2	*+	ug/L		132	74 - 131	3	22
Naphthalene			10.0	11.8		ug/L		118	63 - 150	1	33
1,2,3-Trichlorobenzene			10.0	12.2		ug/L		122	65 - 150	0	33
1,3,5-Trimethylbenzene			10.0	9.23		ug/L		92	80 - 122	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 580-403307/5
Matrix: Water
Analysis Batch: 403307

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			09/08/22 13:11	1
Chloromethane	ND		1.0	0.28	ug/L			09/08/22 13:11	1
Bromomethane	ND		1.0	0.21	ug/L			09/08/22 13:11	1
Chloroethane	ND		1.0	0.35	ug/L			09/08/22 13:11	1
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/08/22 13:11	1
1,1-Dichloroethene	ND		1.0	0.28	ug/L			09/08/22 13:11	1
Methylene Chloride	ND		3.0	1.4	ug/L			09/08/22 13:11	1
Methyl tert-butyl ether	ND		1.0	0.44	ug/L			09/08/22 13:11	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/08/22 13:11	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			09/08/22 13:11	1

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

Lab Sample ID: MB 580-403307/5
Matrix: Water
Analysis Batch: 403307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.22	ug/L			09/08/22 13:11	1
2,2-Dichloropropane	ND		1.0	0.32	ug/L			09/08/22 13:11	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/08/22 13:11	1
Chlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 13:11	1
Chloroform	ND		1.0	0.26	ug/L			09/08/22 13:11	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/08/22 13:11	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/08/22 13:11	1
1,1-Dichloropropene	ND		1.0	0.29	ug/L			09/08/22 13:11	1
Benzene	ND		1.0	0.24	ug/L			09/08/22 13:11	1
1,2-Dichloroethane	ND		1.0	0.42	ug/L			09/08/22 13:11	1
Trichloroethene	0.454	J	1.0	0.26	ug/L			09/08/22 13:11	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			09/08/22 13:11	1
Dibromomethane	ND		1.0	0.34	ug/L			09/08/22 13:11	1
Dichlorobromomethane	ND		1.0	0.29	ug/L			09/08/22 13:11	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/08/22 13:11	1
Toluene	ND		1.0	0.39	ug/L			09/08/22 13:11	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/08/22 13:11	1
1,1,2-Trichloroethane	ND		1.0	0.24	ug/L			09/08/22 13:11	1
Tetrachloroethene	ND		1.0	0.41	ug/L			09/08/22 13:11	1
1,3-Dichloropropane	ND		1.0	0.35	ug/L			09/08/22 13:11	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/08/22 13:11	1
Ethylene Dibromide	ND		1.0	0.40	ug/L			09/08/22 13:11	1
Chlorobenzene	ND		1.0	0.44	ug/L			09/08/22 13:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.18	ug/L			09/08/22 13:11	1
Ethylbenzene	ND		1.0	0.50	ug/L			09/08/22 13:11	1
m-Xylene & p-Xylene	ND		2.0	0.53	ug/L			09/08/22 13:11	1
o-Xylene	ND		1.0	0.39	ug/L			09/08/22 13:11	1
Styrene	ND		1.0	0.53	ug/L			09/08/22 13:11	1
Bromoform	ND		1.0	0.51	ug/L			09/08/22 13:11	1
Isopropylbenzene	ND		1.0	0.44	ug/L			09/08/22 13:11	1
Bromobenzene	ND		1.0	0.43	ug/L			09/08/22 13:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.52	ug/L			09/08/22 13:11	1
1,2,3-Trichloropropane	ND		1.0	0.41	ug/L			09/08/22 13:11	1
N-Propylbenzene	ND		1.0	0.50	ug/L			09/08/22 13:11	1
2-Chlorotoluene	ND		1.0	0.51	ug/L			09/08/22 13:11	1
4-Chlorotoluene	ND		1.0	0.38	ug/L			09/08/22 13:11	1
tert-Butylbenzene	ND		2.0	0.58	ug/L			09/08/22 13:11	1
1,2,4-Trimethylbenzene	ND		3.0	0.61	ug/L			09/08/22 13:11	1
sec-Butylbenzene	ND		1.0	0.49	ug/L			09/08/22 13:11	1
4-Isopropyltoluene	ND		1.0	0.28	ug/L			09/08/22 13:11	1
1,3-Dichlorobenzene	ND		1.0	0.48	ug/L			09/08/22 13:11	1
1,4-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 13:11	1
n-Butylbenzene	ND		1.0	0.44	ug/L			09/08/22 13:11	1
1,2-Dichlorobenzene	ND		1.0	0.46	ug/L			09/08/22 13:11	1
1,2-Dibromo-3-Chloropropane	ND		3.0	0.57	ug/L			09/08/22 13:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.33	ug/L			09/08/22 13:11	1
Hexachlorobutadiene	ND		3.0	0.79	ug/L			09/08/22 13:11	1
Naphthalene	ND		3.0	0.93	ug/L			09/08/22 13:11	1
1,2,3-Trichlorobenzene	ND		2.0	0.43	ug/L			09/08/22 13:11	1

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

Lab Sample ID: MB 580-403307/5
Matrix: Water
Analysis Batch: 403307

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.55	ug/L			09/08/22 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*80 - 120*		*09/08/22 13:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/08/22 13:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/08/22 13:11*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*		*09/08/22 13:11*	*1*

Lab Sample ID: LCS 580-403307/6
Matrix: Water
Analysis Batch: 403307

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	9.18		ug/L		92	20 - 150
Chloromethane	10.0	9.89		ug/L		99	25 - 150
Bromomethane	10.0	10.4		ug/L		104	36 - 150
Chloroethane	10.0	9.75		ug/L		98	38 - 150
Trichlorofluoromethane	10.0	12.3		ug/L		123	45 - 148
1,1-Dichloroethene	10.0	10.4		ug/L		104	70 - 129
Methylene Chloride	10.0	8.82		ug/L		88	77 - 125
Methyl tert-butyl ether	10.0	9.32		ug/L		93	72 - 120
trans-1,2-Dichloroethene	10.0	9.71		ug/L		97	75 - 120
1,1-Dichloroethane	10.0	8.31		ug/L		83	80 - 120
Vinyl chloride	10.0	10.8		ug/L		108	31 - 150
2,2-Dichloropropane	10.0	11.0		ug/L		110	66 - 126
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	76 - 120
Chlorobromomethane	10.0	9.96		ug/L		100	78 - 120
Chloroform	10.0	8.83		ug/L		88	78 - 127
1,1,1-Trichloroethane	10.0	8.04		ug/L		80	74 - 130
Carbon tetrachloride	10.0	7.65		ug/L		76	72 - 129
1,1-Dichloropropene	10.0	9.09		ug/L		91	74 - 120
Benzene	10.0	9.19		ug/L		92	80 - 122
1,2-Dichloroethane	10.0	8.33		ug/L		83	69 - 126
Trichloroethene	10.0	10.4		ug/L		104	80 - 125
1,2-Dichloropropane	10.0	8.54		ug/L		85	80 - 120
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorobromomethane	10.0	7.97		ug/L		80	75 - 124
cis-1,3-Dichloropropene	10.0	7.30	*-	ug/L		73	77 - 120
Toluene	10.0	8.84		ug/L		88	80 - 120
trans-1,3-Dichloropropene	10.0	7.30	*-	ug/L		73	76 - 122
1,1,2-Trichloroethane	10.0	9.52		ug/L		95	80 - 121
Tetrachloroethene	10.0	10.5		ug/L		105	76 - 125
1,3-Dichloropropane	10.0	9.13		ug/L		91	79 - 120
Chlorodibromomethane	10.0	7.17	*-	ug/L		72	73 - 125
Ethylene Dibromide	10.0	9.82		ug/L		98	79 - 126
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120
1,1,1,2-Tetrachloroethane	10.0	8.68		ug/L		87	79 - 120
Ethylbenzene	10.0	8.59		ug/L		86	80 - 120

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

Lab Sample ID: LCS 580-403307/6
Matrix: Water
Analysis Batch: 403307

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	10.0	8.68		ug/L		87	80 - 120
o-Xylene	10.0	8.77		ug/L		88	80 - 120
Styrene	10.0	9.02		ug/L		90	76 - 122
Bromoform	10.0	7.87		ug/L		79	56 - 139
Isopropylbenzene	10.0	8.95		ug/L		90	80 - 123
Bromobenzene	10.0	9.29		ug/L		93	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.26		ug/L		93	74 - 124
1,2,3-Trichloropropane	10.0	9.95		ug/L		99	76 - 124
N-Propylbenzene	10.0	8.57		ug/L		86	80 - 122
2-Chlorotoluene	10.0	9.07		ug/L		91	80 - 120
4-Chlorotoluene	10.0	9.00		ug/L		90	73 - 129
tert-Butylbenzene	10.0	9.25		ug/L		92	75 - 123
1,2,4-Trimethylbenzene	10.0	8.71		ug/L		87	80 - 120
sec-Butylbenzene	10.0	8.75		ug/L		88	78 - 122
4-Isopropyltoluene	10.0	8.77		ug/L		88	77 - 126
1,3-Dichlorobenzene	10.0	9.15		ug/L		92	77 - 127
1,4-Dichlorobenzene	10.0	9.06		ug/L		91	80 - 120
n-Butylbenzene	10.0	9.20		ug/L		92	57 - 133
1,2-Dichlorobenzene	10.0	9.67		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.5		ug/L		105	65 - 133
1,2,4-Trichlorobenzene	10.0	10.7		ug/L		107	61 - 148
Hexachlorobutadiene	10.0	11.6		ug/L		116	74 - 131
Naphthalene	10.0	10.8		ug/L		108	63 - 150
1,2,3-Trichlorobenzene	10.0	11.1		ug/L		111	65 - 150
1,3,5-Trimethylbenzene	10.0	8.75		ug/L		88	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 580-403307/7
Matrix: Water
Analysis Batch: 403307

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	8.70		ug/L		87	20 - 150	5	33
Chloromethane	10.0	9.92		ug/L		99	25 - 150	0	26
Bromomethane	10.0	11.0		ug/L		110	36 - 150	5	33
Chloroethane	10.0	10.5		ug/L		105	38 - 150	8	28
Trichlorofluoromethane	10.0	8.42	*1	ug/L		84	45 - 148	37	35
1,1-Dichloroethene	10.0	9.87		ug/L		99	70 - 129	5	23
Methylene Chloride	10.0	9.16		ug/L		92	77 - 125	4	18
Methyl tert-butyl ether	10.0	9.62		ug/L		96	72 - 120	3	18
trans-1,2-Dichloroethene	10.0	9.24		ug/L		92	75 - 120	5	21
1,1-Dichloroethane	10.0	8.70		ug/L		87	80 - 120	5	15
Vinyl chloride	10.0	10.8		ug/L		108	31 - 150	0	26

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

Lab Sample ID: LCSD 580-403307/7
Matrix: Water
Analysis Batch: 403307

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
2,2-Dichloropropane	10.0	10.9		ug/L		109	66 - 126	1	22
cis-1,2-Dichloroethene	10.0	9.76		ug/L		98	76 - 120	0	20
Chlorobromomethane	10.0	10.1		ug/L		101	78 - 120	2	13
Chloroform	10.0	9.31		ug/L		93	78 - 127	5	14
1,1,1-Trichloroethane	10.0	8.27		ug/L		83	74 - 130	3	19
Carbon tetrachloride	10.0	7.92		ug/L		79	72 - 129	3	19
1,1-Dichloropropene	10.0	9.61		ug/L		96	74 - 120	6	14
Benzene	10.0	9.52		ug/L		95	80 - 122	3	14
1,2-Dichloroethane	10.0	8.63		ug/L		86	69 - 126	4	11
Trichloroethene	10.0	10.6		ug/L		106	80 - 125	2	13
1,2-Dichloropropane	10.0	9.07		ug/L		91	80 - 120	6	14
Dibromomethane	10.0	11.1		ug/L		111	80 - 120	3	11
Dichlorobromomethane	10.0	8.24		ug/L		82	75 - 124	3	13
cis-1,3-Dichloropropene	10.0	7.46	*-	ug/L		75	77 - 120	2	35
Toluene	10.0	8.78		ug/L		88	80 - 120	1	13
trans-1,3-Dichloropropene	10.0	7.37	*-	ug/L		74	76 - 122	1	20
1,1,2-Trichloroethane	10.0	9.42		ug/L		94	80 - 121	1	14
Tetrachloroethene	10.0	10.6		ug/L		106	76 - 125	1	13
1,3-Dichloropropane	10.0	8.97		ug/L		90	79 - 120	2	19
Chlorodibromomethane	10.0	7.19	*-	ug/L		72	73 - 125	0	13
Ethylene Dibromide	10.0	9.67		ug/L		97	79 - 126	2	12
Chlorobenzene	10.0	9.22		ug/L		92	80 - 120	0	10
1,1,1,2-Tetrachloroethane	10.0	8.88		ug/L		89	79 - 120	2	16
Ethylbenzene	10.0	8.72		ug/L		87	80 - 120	1	14
m-Xylene & p-Xylene	10.0	8.69		ug/L		87	80 - 120	0	14
o-Xylene	10.0	8.60		ug/L		86	80 - 120	2	16
Styrene	10.0	8.91		ug/L		89	76 - 122	1	16
Bromoform	10.0	8.02		ug/L		80	56 - 139	2	21
Isopropylbenzene	10.0	8.79		ug/L		88	80 - 123	2	19
Bromobenzene	10.0	9.60		ug/L		96	80 - 120	3	24
1,1,2,2-Tetrachloroethane	10.0	9.73		ug/L		97	74 - 124	5	25
1,2,3-Trichloropropane	10.0	10.1		ug/L		101	76 - 124	2	26
N-Propylbenzene	10.0	8.74		ug/L		87	80 - 122	2	22
2-Chlorotoluene	10.0	9.22		ug/L		92	80 - 120	2	20
4-Chlorotoluene	10.0	8.93		ug/L		89	73 - 129	1	29
tert-Butylbenzene	10.0	9.27		ug/L		93	75 - 123	0	21
1,2,4-Trimethylbenzene	10.0	8.84		ug/L		88	80 - 120	1	16
sec-Butylbenzene	10.0	8.82		ug/L		88	78 - 122	1	15
4-Isopropyltoluene	10.0	8.86		ug/L		89	77 - 126	1	20
1,3-Dichlorobenzene	10.0	9.25		ug/L		92	77 - 127	1	35
1,4-Dichlorobenzene	10.0	9.33		ug/L		93	80 - 120	3	17
n-Butylbenzene	10.0	9.11		ug/L		91	57 - 133	1	14
1,2-Dichlorobenzene	10.0	9.75		ug/L		98	80 - 120	1	15
1,2-Dibromo-3-Chloropropane	10.0	11.6		ug/L		116	65 - 133	10	25
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	61 - 148	5	27
Hexachlorobutadiene	10.0	12.5		ug/L		125	74 - 131	7	22
Naphthalene	10.0	11.6		ug/L		116	63 - 150	8	33
1,2,3-Trichlorobenzene	10.0	11.6		ug/L		116	65 - 150	5	33
1,3,5-Trimethylbenzene	10.0	8.90		ug/L		89	80 - 122	2	21

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120

Lab Sample ID: MB 580-404543/3
Matrix: Water
Analysis Batch: 404543

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/21/22 10:59	1
Vinyl chloride	ND		1.0	0.22	ug/L			09/21/22 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.35	ug/L			09/21/22 10:59	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/21/22 10:59	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/21/22 10:59	1
Trichloroethene	ND		1.0	0.26	ug/L			09/21/22 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/21/22 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/21/22 10:59	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/21/22 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		09/21/22 10:59	1
4-Bromofluorobenzene (Surr)	115		80 - 120		09/21/22 10:59	1
Toluene-d8 (Surr)	94		80 - 120		09/21/22 10:59	1
Dibromofluoromethane (Surr)	109		80 - 120		09/21/22 10:59	1

Lab Sample ID: LCS 580-404543/4
Matrix: Water
Analysis Batch: 404543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	12.4		ug/L		62	45 - 148
Vinyl chloride	20.0	11.7		ug/L		58	31 - 150
cis-1,2-Dichloroethene	10.0	11.0		ug/L		110	76 - 120
1,1,1-Trichloroethane	10.0	12.4		ug/L		124	74 - 130
Carbon tetrachloride	10.0	12.3		ug/L		123	72 - 129
Trichloroethene	10.0	9.59		ug/L		96	80 - 125
cis-1,3-Dichloropropene	10.0	8.04		ug/L		80	77 - 120
trans-1,3-Dichloropropene	10.0	9.10		ug/L		91	76 - 122
Chlorodibromomethane	10.0	10.1		ug/L		101	73 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	113		80 - 120
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120

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

Lab Sample ID: LCSD 580-404543/5
Matrix: Water
Analysis Batch: 404543

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
Trichlorofluoromethane			20.0	10.1		ug/L		51	45 - 148	20	35
Vinyl chloride			20.0	9.58		ug/L		48	31 - 150	20	26
cis-1,2-Dichloroethene			10.0	10.0		ug/L		100	76 - 120	10	20
1,1,1-Trichloroethane			10.0	10.4		ug/L		104	74 - 130	18	19
Carbon tetrachloride			10.0	10.3		ug/L		103	72 - 129	18	19
Trichloroethene			10.0	10.0		ug/L		100	80 - 125	5	13
cis-1,3-Dichloropropene			10.0	11.6	*1	ug/L		116	77 - 120	36	35
trans-1,3-Dichloropropene			10.0	10.5		ug/L		105	76 - 122	14	20
Chlorodibromomethane			10.0	10.3		ug/L		103	73 - 125	2	13

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 580-404557/5
Matrix: Water
Analysis Batch: 404557

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.36	ug/L			09/21/22 14:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/21/22 14:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/21/22 14:14	1
Trichloroethene	ND		1.0	0.26	ug/L			09/21/22 14:14	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/21/22 14:14	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/21/22 14:14	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/21/22 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*09/21/22 14:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/21/22 14:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/21/22 14:14*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*09/21/22 14:14*	*1*

Lab Sample ID: LCS 580-404557/6
Matrix: Water
Analysis Batch: 404557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichlorofluoromethane			10.0	12.2		ug/L		122	45 - 148		
1,1,1-Trichloroethane			10.0	8.21		ug/L		82	74 - 130		
Carbon tetrachloride			10.0	9.38		ug/L		94	72 - 129		
Trichloroethene			10.0	10.2		ug/L		102	80 - 125		
cis-1,3-Dichloropropene			10.0	8.62		ug/L		86	77 - 120		
trans-1,3-Dichloropropene			10.0	8.77		ug/L		88	76 - 122		
Chlorodibromomethane			10.0	9.86		ug/L		99	73 - 125		

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

Lab Sample ID: LCS 580-404557/6
Matrix: Water
Analysis Batch: 404557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120

Lab Sample ID: LCSD 580-404557/7
Matrix: Water
Analysis Batch: 404557

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
Trichlorofluoromethane			10.0	13.1		ug/L		131	45 - 148	6	35
1,1,1-Trichloroethane			10.0	8.36		ug/L		84	74 - 130	2	19
Carbon tetrachloride			10.0	9.37		ug/L		94	72 - 129	0	19
Trichloroethene			10.0	10.2		ug/L		102	80 - 125	1	13
cis-1,3-Dichloropropene			10.0	8.75		ug/L		88	77 - 120	2	35
trans-1,3-Dichloropropene			10.0	8.88		ug/L		89	76 - 122	1	20
Chlorodibromomethane			10.0	9.58		ug/L		96	73 - 125	3	13

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120

Lab Sample ID: MB 580-404753/7
Matrix: Water
Analysis Batch: 404753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/22/22 16:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/22/22 16:41	1
Trichloroethene	ND		1.0	0.26	ug/L			09/22/22 16:41	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			09/22/22 16:41	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/22/22 16:41	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/22/22 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		09/22/22 16:41	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/22/22 16:41	1
Toluene-d8 (Surr)	91		80 - 120		09/22/22 16:41	1
Dibromofluoromethane (Surr)	99		80 - 120		09/22/22 16:41	1

Lab Sample ID: LCS 580-404753/8
Matrix: Water
Analysis Batch: 404753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			10.0	10.3		ug/L		103	74 - 130		

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

Lab Sample ID: LCS 580-404753/8
Matrix: Water
Analysis Batch: 404753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon tetrachloride			10.0	10.5		ug/L		105	72 - 129		
Trichloroethene			10.0	10.1		ug/L		101	80 - 125		
cis-1,3-Dichloropropene			10.0	13.1	*+	ug/L		131	77 - 120		
trans-1,3-Dichloropropene			10.0	11.1		ug/L		111	76 - 122		
Chlorodibromomethane			10.0	10.6		ug/L		106	73 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-404753/9
Matrix: Water
Analysis Batch: 404753

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
1,1,1-Trichloroethane			10.0	12.2		ug/L		122	74 - 130	17	19
Carbon tetrachloride			10.0	12.3		ug/L		123	72 - 129	16	19
Trichloroethene			10.0	10.2		ug/L		102	80 - 125	1	13
cis-1,3-Dichloropropene			10.0	9.00	*1	ug/L		90	77 - 120	37	35
trans-1,3-Dichloropropene			10.0	9.39		ug/L		94	76 - 122	17	20
Chlorodibromomethane			10.0	10.5		ug/L		105	73 - 125	1	13

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*

Lab Sample ID: MB 580-405308/3
Matrix: Water
Analysis Batch: 405308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			09/28/22 13:38	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			09/28/22 13:38	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			09/28/22 13:38	1
Trichloroethene	ND		1.0	0.26	ug/L			09/28/22 13:38	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			09/28/22 13:38	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			09/28/22 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*		*09/28/22 13:38*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*09/28/22 13:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/22 13:38*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*09/28/22 13:38*	*1*

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

Lab Sample ID: LCS 580-405308/4
Matrix: Water
Analysis Batch: 405308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
trans-1,2-Dichloroethene			10.0	9.18		ug/L		92	75 - 120		
1,1,1-Trichloroethane			10.0	8.78		ug/L		88	74 - 130		
Carbon tetrachloride			10.0	9.62		ug/L		96	72 - 129		
Trichloroethene			10.0	10.7		ug/L		107	80 - 125		
trans-1,3-Dichloropropene			10.0	8.97		ug/L		90	76 - 122		
Chlorodibromomethane			10.0	10.7		ug/L		107	73 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-405308/5
Matrix: Water
Analysis Batch: 405308

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
trans-1,2-Dichloroethene			10.0	8.91		ug/L		89	75 - 120	3	21
1,1,1-Trichloroethane			10.0	8.58		ug/L		86	74 - 130	2	19
Carbon tetrachloride			10.0	9.49		ug/L		95	72 - 129	1	19
Trichloroethene			10.0	10.8		ug/L		108	80 - 125	0	13
trans-1,3-Dichloropropene			10.0	9.10		ug/L		91	76 - 122	1	20
Chlorodibromomethane			10.0	10.8		ug/L		108	73 - 125	1	13

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 580-405799/5
Matrix: Water
Analysis Batch: 405799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.36	ug/L			10/03/22 11:50	1
trans-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/03/22 11:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/03/22 11:50	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/03/22 11:50	1
Trichloroethene	ND		1.0	0.26	ug/L			10/03/22 11:50	1
cis-1,3-Dichloropropene	ND		1.0	0.42	ug/L			10/03/22 11:50	1
trans-1,3-Dichloropropene	ND		1.0	0.41	ug/L			10/03/22 11:50	1
Chlorodibromomethane	ND		1.0	0.43	ug/L			10/03/22 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*10/03/22 11:50*	*1*

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

Lab Sample ID: MB 580-405799/5
Matrix: Water
Analysis Batch: 405799

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		10/03/22 11:50	1
Toluene-d8 (Surr)	95		80 - 120		10/03/22 11:50	1
Dibromofluoromethane (Surr)	100		80 - 120		10/03/22 11:50	1

Lab Sample ID: LCS 580-405799/6
Matrix: Water
Analysis Batch: 405799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichlorofluoromethane			10.0	9.30		ug/L		93	45 - 148		
trans-1,2-Dichloroethene			10.0	9.26		ug/L		93	75 - 120		
1,1,1-Trichloroethane			10.0	9.02		ug/L		90	74 - 130		
Carbon tetrachloride			10.0	9.09		ug/L		91	72 - 129		
Trichloroethene			10.0	10.1		ug/L		101	80 - 125		
cis-1,3-Dichloropropene			10.0	14.0	*+	ug/L		140	77 - 120		
trans-1,3-Dichloropropene			10.0	11.4		ug/L		114	76 - 122		
Chlorodibromomethane			10.0	10.6		ug/L		106	73 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120

Lab Sample ID: LCSD 580-405799/7
Matrix: Water
Analysis Batch: 405799

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
Trichlorofluoromethane			10.0	14.1	*1	ug/L		141	45 - 148	41	35
trans-1,2-Dichloroethene			10.0	10.3		ug/L		103	75 - 120	10	21
1,1,1-Trichloroethane			10.0	12.2	*1	ug/L		122	74 - 130	30	19
Carbon tetrachloride			10.0	12.1	*1	ug/L		121	72 - 129	29	19
Trichloroethene			10.0	8.32	*1	ug/L		83	80 - 125	19	13
cis-1,3-Dichloropropene			10.0	8.04	*1	ug/L		80	77 - 120	54	35
trans-1,3-Dichloropropene			10.0	9.45		ug/L		94	76 - 122	18	20
Chlorodibromomethane			10.0	10.3		ug/L		103	73 - 125	4	13

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 120
4-Bromofluorobenzene (Surr)	112		80 - 120
Toluene-d8 (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120

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

Lab Sample ID: MB 580-402406/5-A
Matrix: Water
Analysis Batch: 403622

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		1500	470	ug/L			09/12/22 22:23	100
1,1-Dichloroethene	ND		100	28	ug/L			09/12/22 22:23	100
Chloroform	ND		100	26	ug/L			09/12/22 22:23	100
Benzene	ND		100	24	ug/L			09/12/22 22:23	100
Trichloroethene	ND		100	26	ug/L			09/12/22 22:23	100
Tetrachloroethene	ND		100	41	ug/L			09/12/22 22:23	100
Chlorobenzene	ND		100	44	ug/L			09/12/22 22:23	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*09/12/22 22:23*	*100*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/12/22 22:23*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/12/22 22:23*	*100*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*09/12/22 22:23*	*100*

Lab Sample ID: LCS 580-402406/6-A
Matrix: Water
Analysis Batch: 403622

Client Sample ID: Lab Control Sample
Prep Type: TCLP

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Butanone			5000	5180		ug/L		104	65 - 137		
1,1-Dichloroethene			1000	697		ug/L		70	70 - 129		
Chloroform			1000	917		ug/L		92	78 - 127		
Benzene			1000	940		ug/L		94	80 - 122		
Trichloroethene			1000	1040		ug/L		104	80 - 125		
Tetrachloroethene			1000	1170		ug/L		117	76 - 125		
Chlorobenzene			1000	978		ug/L		98	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 580-402406/7-A
Matrix: Water
Analysis Batch: 403622

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
2-Butanone			5000	5360		ug/L		107	65 - 137	3	34
1,1-Dichloroethene			1000	980	*1	ug/L		98	70 - 129	34	23
Chloroform			1000	913		ug/L		91	78 - 127	0	14
Benzene			1000	917		ug/L		92	80 - 122	3	14
Trichloroethene			1000	1000		ug/L		100	80 - 125	3	13
Tetrachloroethene			1000	1120		ug/L		112	76 - 125	5	13
Chlorobenzene			1000	966		ug/L		97	80 - 120	1	10

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

Lab Sample ID: LCSD 580-402406/7-A
Matrix: Water
Analysis Batch: 403622

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120

Lab Sample ID: MB 580-402406/5-A
Matrix: Water
Analysis Batch: 404543

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		100	22	ug/L			09/21/22 12:12	100
1,1,1-Trichloroethane	ND		100	39	ug/L			09/21/22 12:12	100
Carbon tetrachloride	ND		100	30	ug/L			09/21/22 12:12	100
1,2-Dichloroethane	ND		100	42	ug/L			09/21/22 12:12	100

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		09/21/22 12:12	100
4-Bromofluorobenzene (Surr)	101		80 - 120		09/21/22 12:12	100
Toluene-d8 (Surr)	92		80 - 120		09/21/22 12:12	100
Dibromofluoromethane (Surr)	99		80 - 120		09/21/22 12:12	100

Lab Sample ID: LCS 580-402406/6-A
Matrix: Water
Analysis Batch: 404543

Client Sample ID: Lab Control Sample
Prep Type: TCLP

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	1000	1210		ug/L		121	31 - 150
1,1,1-Trichloroethane	1000	1210		ug/L		121	74 - 130
Carbon tetrachloride	1000	1250		ug/L		125	72 - 129
1,2-Dichloroethane	1000	949		ug/L		95	69 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	114		80 - 120
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	108		80 - 120

Lab Sample ID: LCSD 580-402406/7-A
Matrix: Water
Analysis Batch: 404543

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
Vinyl chloride	1000	899	*1	ug/L		90	31 - 150	29	26
1,1,1-Trichloroethane	1000	1090		ug/L		109	74 - 130	10	19
Carbon tetrachloride	1000	1120		ug/L		112	72 - 129	11	19
1,2-Dichloroethane	1000	933		ug/L		93	69 - 126	2	11

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

Lab Sample ID: LCSD 580-402406/7-A
Matrix: Water
Analysis Batch: 404543

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*

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

Lab Sample ID: MB 580-402206/23-D
Matrix: Water
Analysis Batch: 402906

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0	0.20	ug/L		09/02/22 11:07	09/03/22 19:54	1
2-Methylphenol	ND		3.0	0.25	ug/L		09/02/22 11:07	09/03/22 19:54	1
3 & 4 Methylphenol	ND		3.0	0.50	ug/L		09/02/22 11:07	09/03/22 19:54	1
Hexachloroethane	ND		5.0	0.25	ug/L		09/02/22 11:07	09/03/22 19:54	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/02/22 11:07	09/03/22 19:54	1
Hexachlorobutadiene	ND		5.0	0.40	ug/L		09/02/22 11:07	09/03/22 19:54	1
2,4,6-Trichlorophenol	ND		3.0	0.50	ug/L		09/02/22 11:07	09/03/22 19:54	1
2,4,5-Trichlorophenol	ND		2.0	0.50	ug/L		09/02/22 11:07	09/03/22 19:54	1
2,4-Dinitrotoluene	ND		5.0	0.50	ug/L		09/02/22 11:07	09/03/22 19:54	1
Hexachlorobenzene	ND		3.0	0.40	ug/L		09/02/22 11:07	09/03/22 19:54	1
Pentachlorophenol	ND		25	2.6	ug/L		09/02/22 11:07	09/03/22 19:54	1
Pyridine	ND		50	5.3	ug/L		09/02/22 11:07	09/03/22 19:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*69*		*25 - 127*	*09/02/22 11:07*	*09/03/22 19:54*	*1*
Phenol-d5 (Surr)	*39*		*26 - 120*	*09/02/22 11:07*	*09/03/22 19:54*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*39 - 137*	*09/02/22 11:07*	*09/03/22 19:54*	*1*
Nitrobenzene-d5 (Surr)	*72*		*29 - 139*	*09/02/22 11:07*	*09/03/22 19:54*	*1*
2-Fluorobiphenyl	*72*		*36 - 120*	*09/02/22 11:07*	*09/03/22 19:54*	*1*
Terphenyl-d14 (Surr)	*93*		*66 - 150*	*09/02/22 11:07*	*09/03/22 19:54*	*1*

Lab Sample ID: LCS 580-402206/25-D
Matrix: Water
Analysis Batch: 402906

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 402804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	10.0	5.23		ug/L		52	39 - 120
2-Methylphenol	10.0	6.50		ug/L		65	42 - 134
3 & 4 Methylphenol	10.0	6.10		ug/L		61	45 - 120
Hexachloroethane	10.0	4.43	J	ug/L		44	30 - 131
Nitrobenzene	10.0	8.68		ug/L		87	49 - 120
Hexachlorobutadiene	10.0	4.05	J *-	ug/L		40	43 - 120
2,4,6-Trichlorophenol	10.0	7.53		ug/L		75	51 - 121
2,4,5-Trichlorophenol	10.0	8.21		ug/L		82	67 - 120
2,4-Dinitrotoluene	10.0	8.58		ug/L		86	63 - 120
Hexachlorobenzene	10.0	7.44		ug/L		74	55 - 120

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

Lab Sample ID: LCS 580-402206/25-D
Matrix: Water
Analysis Batch: 402906

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 402804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pentachlorophenol			20.0	18.8	J	ug/L		94	53 - 131		
Pyridine			20.0	6.89	J	ug/L		34	10 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*73*		*25 - 127*
Phenol-d5 (Surr)	*64*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*80*		*39 - 137*
Nitrobenzene-d5 (Surr)	*79*		*29 - 139*
2-Fluorobiphenyl	*67*		*36 - 120*
Terphenyl-d14 (Surr)	*103*		*66 - 150*

Lab Sample ID: LCSD 580-402206/26-D
Matrix: Water
Analysis Batch: 402906

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 402804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			10.0	5.00		ug/L		50	39 - 120	4	35
2-Methylphenol			10.0	5.74		ug/L		57	42 - 134	12	35
3 & 4 Methylphenol			10.0	5.31		ug/L		53	45 - 120	14	35
Hexachloroethane			10.0	4.69	J	ug/L		47	30 - 131	6	35
Nitrobenzene			10.0	7.18		ug/L		72	49 - 120	19	35
Hexachlorobutadiene			10.0	4.77	J	ug/L		48	43 - 120	16	28
2,4,6-Trichlorophenol			10.0	6.80		ug/L		68	51 - 121	10	31
2,4,5-Trichlorophenol			10.0	7.28		ug/L		73	67 - 120	12	26
2,4-Dinitrotoluene			10.0	7.44		ug/L		74	63 - 120	14	23
Hexachlorobenzene			10.0	7.16		ug/L		72	55 - 120	4	35
Pentachlorophenol			20.0	16.4	J	ug/L		82	53 - 131	14	23
Pyridine			20.0	ND	*1	ug/L		18	10 - 120	61	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*70*		*25 - 127*
Phenol-d5 (Surr)	*52*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*70*		*39 - 137*
Nitrobenzene-d5 (Surr)	*74*		*29 - 139*
2-Fluorobiphenyl	*61*		*36 - 120*
Terphenyl-d14 (Surr)	*91*		*66 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-402206/23-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		08/30/22 13:42	09/01/22 00:45	1
Barium	ND		0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 00:45	1
Cadmium	ND		0.020	0.00090	mg/L		08/30/22 13:42	09/01/22 00:45	1
Chromium	ND		0.025	0.0027	mg/L		08/30/22 13:42	09/01/22 00:45	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 580-402206/23-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.060	0.0055	mg/L		08/30/22 13:42	09/01/22 00:45	1
Lead	0.00280	J	0.030	0.0027	mg/L		08/30/22 13:42	09/01/22 00:45	1
Molybdenum	ND		0.040	0.0012	mg/L		08/30/22 13:42	09/01/22 00:45	1
Nickel	0.00470	J	0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 00:45	1
Selenium	ND		0.10	0.0087	mg/L		08/30/22 13:42	09/01/22 00:45	1
Silver	ND		0.050	0.0085	mg/L		08/30/22 13:42	09/01/22 00:45	1
Zinc	ND		0.040	0.0093	mg/L		08/30/22 13:42	09/01/22 00:45	1

Lab Sample ID: MB 580-402206/24-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		08/30/22 13:42	09/01/22 00:49	1
Barium	ND		0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 00:49	1
Cadmium	ND		0.020	0.00090	mg/L		08/30/22 13:42	09/01/22 00:49	1
Chromium	ND		0.025	0.0027	mg/L		08/30/22 13:42	09/01/22 00:49	1
Copper	ND		0.060	0.0055	mg/L		08/30/22 13:42	09/01/22 00:49	1
Lead	ND		0.030	0.0027	mg/L		08/30/22 13:42	09/01/22 00:49	1
Molybdenum	ND		0.040	0.0012	mg/L		08/30/22 13:42	09/01/22 00:49	1
Nickel	ND		0.020	0.0010	mg/L		08/30/22 13:42	09/01/22 00:49	1
Selenium	0.0106	J	0.10	0.0087	mg/L		08/30/22 13:42	09/01/22 00:49	1
Silver	ND		0.050	0.0085	mg/L		08/30/22 13:42	09/01/22 00:49	1
Zinc	ND		0.040	0.0093	mg/L		08/30/22 13:42	09/01/22 00:49	1

Lab Sample ID: LCS 580-402206/25-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 402395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	0.979		mg/L		98	80 - 120
Cadmium	1.00	1.07		mg/L		107	80 - 120
Chromium	1.00	1.10		mg/L		110	80 - 120
Copper	1.00	1.07		mg/L		107	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Molybdenum	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.09		mg/L		109	80 - 120
Selenium	1.00	1.12		mg/L		112	80 - 120
Silver	1.00	0.974		mg/L		97	80 - 120
Zinc	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-402206/26-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 402395

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.11		mg/L		111	80 - 120	3	20
Barium	1.00	0.996		mg/L		100	80 - 120	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-402206/26-C
Matrix: Water
Analysis Batch: 402740

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 402395

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium			1.00	1.09		mg/L		109	80 - 120	2	20
Chromium			1.00	1.11		mg/L		111	80 - 120	2	20
Copper			1.00	1.09		mg/L		109	80 - 120	1	20
Lead			1.00	1.05		mg/L		105	80 - 120	2	20
Molybdenum			1.00	1.06		mg/L		106	80 - 120	2	20
Nickel			1.00	1.11		mg/L		111	80 - 120	2	20
Selenium			1.00	1.15		mg/L		115	80 - 120	3	20
Silver			1.00	0.981		mg/L		98	80 - 120	1	20
Zinc			1.00	1.07		mg/L		107	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-402206/23-B
Matrix: Water
Analysis Batch: 402573

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		08/30/22 13:16	08/30/22 22:26	1

Lab Sample ID: MB 580-402206/24-B
Matrix: Water
Analysis Batch: 402573

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 402378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0030	0.0015	mg/L		08/30/22 13:16	08/30/22 22:29	1

Lab Sample ID: LCS 580-402206/25-B
Matrix: Water
Analysis Batch: 402573

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 402378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.0200	0.0196		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-402206/26-B
Matrix: Water
Analysis Batch: 402573

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 402378

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.0200	0.0196		mg/L		98	80 - 120	0	20

Lab Chronicle

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW3
Lab Sample ID: 580-117330-1
Date Collected: 08/24/22 11:01
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 01:03
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 16:06

Client Sample ID: MW4
Lab Sample ID: 580-117330-2
Date Collected: 08/23/22 12:34
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 16:47
Total/NA	Analysis	8260D		1	402903	TL1	EET SEA	09/04/22 08:55

Client Sample ID: MW5
Lab Sample ID: 580-117330-3
Date Collected: 08/25/22 10:09
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 17:11
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 18:31

Client Sample ID: MW6
Lab Sample ID: 580-117330-4
Date Collected: 08/24/22 17:15
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	405799	RJL	EET SEA	10/03/22 14:40
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 01:28

Client Sample ID: MW7
Lab Sample ID: 580-117330-5
Date Collected: 08/25/22 11:12
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 17:36
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 18:55

Client Sample ID: MW8
Lab Sample ID: 580-117330-6
Date Collected: 08/23/22 16:08
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 18:00
Total/NA	Analysis	8260D		1	402903	TL1	EET SEA	09/04/22 09:20

Lab Chronicle

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW9
Lab Sample ID: 580-117330-7
Date Collected: 08/24/22 13:08
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 01:53
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 16:30

Client Sample ID: MW10
Lab Sample ID: 580-117330-8
Date Collected: 08/24/22 14:12
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 02:17
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 16:55

Client Sample ID: MW11
Lab Sample ID: 580-117330-9
Date Collected: 08/25/22 14:20
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 18:25
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 19:20

Client Sample ID: MW13
Lab Sample ID: 580-117330-10
Date Collected: 08/23/22 16:42
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 18:49
Total/NA	Analysis	8260D		1	402903	TL1	EET SEA	09/04/22 09:44

Client Sample ID: MW14
Lab Sample ID: 580-117330-11
Date Collected: 08/24/22 12:24
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 02:41
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 17:19

Client Sample ID: MW15
Lab Sample ID: 580-117330-12
Date Collected: 08/23/22 14:13
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 19:14
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 18:31

Lab Chronicle

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

Job ID: 580-117330-1

Client Sample ID: MW16
Date Collected: 08/25/22 12:10
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 19:38
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 19:44

Client Sample ID: MW17
Date Collected: 08/23/22 14:49
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 20:03
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 18:55

Client Sample ID: MW18
Date Collected: 08/24/22 09:47
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 03:05
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 17:44

Client Sample ID: MW19
Date Collected: 08/24/22 13:35
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 03:30
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 18:08

Client Sample ID: MW20
Date Collected: 08/24/22 14:42
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 03:55
Total/NA	Analysis	8260D	RADL	50	405308	RJL	EET SEA	09/28/22 18:32

Client Sample ID: MW22
Date Collected: 08/25/22 13:15
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 20:27
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 20:09

Lab Chronicle

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: MW23
Lab Sample ID: 580-117330-19
Date Collected: 08/24/22 15:28
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403032	RJL	EET SEA	09/07/22 04:20
Total/NA	Analysis	8260D	RA	1	405308	RJL	EET SEA	09/28/22 18:57

Client Sample ID: MW25
Lab Sample ID: 580-117330-20
Date Collected: 08/23/22 15:43
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 20:51
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 17:17

Client Sample ID: MW26
Lab Sample ID: 580-117330-21
Date Collected: 08/24/22 11:40
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 21:16
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 19:20

Client Sample ID: MW27
Lab Sample ID: 580-117330-22
Date Collected: 08/23/22 13:43
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404543	BNM	EET SEA	09/21/22 21:40
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 17:41

Client Sample ID: MW28
Lab Sample ID: 580-117330-23
Date Collected: 08/24/22 10:18
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 19:44
Total/NA	Analysis	8260D	RA	1	404557	BNM	EET SEA	09/21/22 22:25

Client Sample ID: MW29
Lab Sample ID: 580-117330-24
Date Collected: 08/23/22 13:05
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 18:06
Total/NA	Analysis	8260D	RA	1	404557	BNM	EET SEA	09/21/22 22:50

Lab Chronicle

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

Job ID: 580-117330-1

Client Sample ID: MW30
Date Collected: 08/24/22 17:45
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	405799	RJL	EET SEA	10/03/22 15:05
Total/NA	Analysis	8260D		1	403144	BNM	EET SEA	09/07/22 22:38

Client Sample ID: MW31
Date Collected: 08/24/22 18:33
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 20:09
Total/NA	Analysis	8260D	RA	1	404557	BNM	EET SEA	09/21/22 23:15

Client Sample ID: MW100
Date Collected: 08/25/22 18:20
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 20:33

Client Sample ID: MW101
Date Collected: 08/25/22 15:52
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 20:58
Total/NA	Analysis	8260D	RA	1	404557	BNM	EET SEA	09/21/22 23:40

Client Sample ID: MW102
Date Collected: 08/25/22 16:55
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 21:22
Total/NA	Analysis	8260D	RA	1	404557	BNM	EET SEA	09/22/22 00:04

Client Sample ID: MW103
Date Collected: 08/25/22 17:36
Date Received: 08/26/22 13:02

Lab Sample ID: 580-117330-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404753	RJL	EET SEA	09/22/22 21:59
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 21:47

Lab Chronicle

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Client Sample ID: Dup1
Lab Sample ID: 580-117330-31
Date Collected: 08/23/22 12:37
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404753	RJL	EET SEA	09/22/22 22:24
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 20:33

Client Sample ID: Purge Water
Lab Sample ID: 580-117330-32
Date Collected: 08/26/22 10:30
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311	RA		402406	JLS	EET SEA	08/30/22 16:02 - 08/31/22 10:50 [1]
TCLP	Analysis	8260D	RA	100	404543	BNM	EET SEA	09/21/22 13:49
TCLP	Leach	1311			402406	JLS	EET SEA	08/30/22 16:02 - 08/31/22 10:50 [1]
TCLP	Analysis	8260D		100	403622	BNM	EET SEA	09/13/22 00:27
TCLP	Leach	1311			402206	JLS	EET SEA	08/29/22 11:47 - 08/30/22 13:00 [1]
TCLP	Prep	3510C			402804	KLW	EET SEA	09/02/22 11:07
TCLP	Analysis	8270E		1	402906	TL1	EET SEA	09/03/22 22:17
TCLP	Leach	1311			402206	JLS	EET SEA	08/29/22 11:47 - 08/30/22 13:00 [1]
TCLP	Prep	3010A			402395	JLS	EET SEA	08/30/22 13:42
TCLP	Analysis	6010D		1	402740	TMH	EET SEA	09/01/22 02:34
TCLP	Leach	1311			402206	JLS	EET SEA	08/29/22 11:47 - 08/30/22 13:00 [1]
TCLP	Prep	7470A			402378	JLS	EET SEA	08/30/22 13:16
TCLP	Analysis	7470A		1	402573	ABP	EET SEA	08/30/22 23:16

Client Sample ID: Trip Blank
Lab Sample ID: 580-117330-33
Date Collected: 08/23/22 00:01
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	404753	RJL	EET SEA	09/22/22 21:34
Total/NA	Analysis	8260D		1	402999	BNM	EET SEA	09/06/22 16:28

Client Sample ID: MW24
Lab Sample ID: 580-117330-34
Date Collected: 08/26/22 09:36
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	5	405799	RJL	EET SEA	10/03/22 15:29
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 22:35

Client Sample ID: Dup2
Lab Sample ID: 580-117330-35
Date Collected: 08/26/22 09:38
Matrix: Water
Date Received: 08/26/22 13:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RADL	5	405799	RJL	EET SEA	10/03/22 15:53
Total/NA	Analysis	8260D		1	403307	BNM	EET SEA	09/08/22 23:00

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory References:

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

Accreditation/Certification Summary

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Laboratory: Eurofins Seattle

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4167	07-08-23

Sample Summary

Client: WE2 Support Services
Job ID: 580-117330-1
Project/Site: Dept of Energy- NETL - Albany, OR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-117330-1	MW3	Water	08/24/22 11:01	08/26/22 13:02
580-117330-2	MW4	Water	08/23/22 12:34	08/26/22 13:02
580-117330-3	MW5	Water	08/25/22 10:09	08/26/22 13:02
580-117330-4	MW6	Water	08/24/22 17:15	08/26/22 13:02
580-117330-5	MW7	Water	08/25/22 11:12	08/26/22 13:02
580-117330-6	MW8	Water	08/23/22 16:08	08/26/22 13:02
580-117330-7	MW9	Water	08/24/22 13:08	08/26/22 13:02
580-117330-8	MW10	Water	08/24/22 14:12	08/26/22 13:02
580-117330-9	MW11	Water	08/25/22 14:20	08/26/22 13:02
580-117330-10	MW13	Water	08/23/22 16:42	08/26/22 13:02
580-117330-11	MW14	Water	08/24/22 12:24	08/26/22 13:02
580-117330-12	MW15	Water	08/23/22 14:13	08/26/22 13:02
580-117330-13	MW16	Water	08/25/22 12:10	08/26/22 13:02
580-117330-14	MW17	Water	08/23/22 14:49	08/26/22 13:02
580-117330-15	MW18	Water	08/24/22 09:47	08/26/22 13:02
580-117330-16	MW19	Water	08/24/22 13:35	08/26/22 13:02
580-117330-17	MW20	Water	08/24/22 14:42	08/26/22 13:02
580-117330-18	MW22	Water	08/25/22 13:15	08/26/22 13:02
580-117330-19	MW23	Water	08/24/22 15:28	08/26/22 13:02
580-117330-20	MW25	Water	08/23/22 15:43	08/26/22 13:02
580-117330-21	MW26	Water	08/24/22 11:40	08/26/22 13:02
580-117330-22	MW27	Water	08/23/22 13:43	08/26/22 13:02
580-117330-23	MW28	Water	08/24/22 10:18	08/26/22 13:02
580-117330-24	MW29	Water	08/23/22 13:05	08/26/22 13:02
580-117330-25	MW30	Water	08/24/22 17:45	08/26/22 13:02
580-117330-26	MW31	Water	08/24/22 18:33	08/26/22 13:02
580-117330-27	MW100	Water	08/25/22 18:20	08/26/22 13:02
580-117330-28	MW101	Water	08/25/22 15:52	08/26/22 13:02
580-117330-29	MW102	Water	08/25/22 16:55	08/26/22 13:02
580-117330-30	MW103	Water	08/25/22 17:36	08/26/22 13:02
580-117330-31	Dup1	Water	08/23/22 12:37	08/26/22 13:02
580-117330-32	Purge Water	Water	08/26/22 10:30	08/26/22 13:02
580-117330-33	Trip Blank	Water	08/23/22 00:01	08/26/22 13:02
580-117330-34	MW24	Water	08/26/22 09:36	08/26/22 13:02
580-117330-35	Dup2	Water	08/26/22 09:38	08/26/22 13:02

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-84187-15040.1
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	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 #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, 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)	8260D standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
MW3	8-24-22	1101	G	W			3		
MW4	8-23-22	1234	G	W			3		
MW5	8-25-22	1009	G	W			3		
MW6	8-24-22	1715	G	W			3		
MW7	8-25-22	1112	G	W			3		
MW8	8-23-22	1608	G	W			3		
MW9	8-24-22	1308	G	W			3		
MW10	8-24-22	1412	G	W			3		
MW11	8-25-22	1420	G	W			3		
MW13	8-23-22	1642	G	W			3		
MW14	8-24-22	1224	G	W			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: Chanel Long	Date/Time: 8/26/22 1302	Company: Whiteshield	Received by:	Date/Time: 8/26/22 1302	Company: EETN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.6, 2-3

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-84187-15040.2
Client Contact: Jason Somes	Phone: (253) 432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	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 #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, 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)	8260-D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW15	8-23-22	1413	G	W			3		
MW16	8-25-22	1210	G	W			3		
MW17	8-23-22	1449	G	W			3		
MW18	8-24-22	0947	G	W			3		
MW19	8-24-22	1335	G	W			3		
MW20	8-24-22	1442	G	W			3		
MW22	8-25-22	1315	G	W			3		
MW23	8-24-22	1528	G	W			3		
~~MW99~~	~~8-25-22~~	~~1453~~	~~G~~	~~W~~			~~3~~		
MW25	8-23-22	1543	G	W			3		
MW26	8-24-22	1140	G	W			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	Chanel Long	8/26/22 1302	Whiteshield		8/26/22 1302	GETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-84187-15040.3
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.com	State of Origin:	Page: Page 3 of 4
Company: WE2 Support Services	PWSID:			Job #:
Address: 1450 Queen Avenue SW	Due Date Requested:			
City: Albany	TAT Requested (days): 2 weeks			
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 #: 18025223			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, 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)	8260D Standard List Volatile Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW27	8-23-22	1343	G	~~H2O~~ W			3		
MW28	8-24-22	1018	G	W			3		
MW29	8-23-22	1305	G	W			3		
MW30	8-24-22	1745	G	W			3		
MW31	8-24-22	1833	G	W			3		
MW100	8-25-22	1820	G	W			3		
MW101	8-25-22	1552	G	W			3		
MW 102	8-25-22	1655	G	W			3		
MW 103	8-25-22	1736	G	W			3		
Dup 1	8-23-22	1237	G	W			3		
~~Dup 2~~	~~8-25-22~~	~~1011~~	~~G~~	~~W~~			~~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	Chanel Long	8/26/22 1302	Whitesh. Ell		8/26/22 1302	EETN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Chanel Long	Lab PM: Colussy, Jill L	Carrier Tracking No(s):	COC No: 180-84187-15040.4
Client Contact: Jason Somes	Phone: (253)432-6586	E-Mail: Jill.Colussy@et.eurofinsus.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 #: 18025223			
Site:	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)	8260D	8260D	7470A TCLP RCRA Mercury	200.7-CNA, 200.8_CNA, 245.1	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N		
Purge Water	8-26-22	1030	G	W			1	2	1	1	5	
Trip Blank	—	—	G	W							8	
MW24	8-26-22	0930	G	W								
Dup 2	8-26-22	0938	G	W								

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	Y - Trizma
	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	Received by:	Date/Time:	Company
Relinquished by: Chanel Long	8/26/22 1302	WA Testfield		8/26/22 1302	TETN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WE2 Support Services

Job Number: 580-117330-1

Login Number: 117330
List Number: 1
Creator: O'Connell, Jason I

List Source: Eurofins Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
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 45
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	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-4	MW-4	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-4 DUP1	MW-4	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-5	MW-5	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	**0.78 R**	0.41U	**0.56 R**
MW-6	MW-6	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-7	MW-7	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-8	MW-8	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-9	MW-9	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-10	MW-10	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-11	MW-11	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-13	MW-13	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-14	MW-14	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-15	MW-15	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-16	MW-16	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-17	MW-17	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-18	MW-18	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-19	MW-19	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-20	MW-20	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-22	MW-22	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-23	MW-23	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-24	MW-24	8/26/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-24 DUP2	MW-24	8/26/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-25	MW-25	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-26	MW-26	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-27	MW-27	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-28	MW-28	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-29	MW-29	8/23/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-30	MW-30	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-31	MW-31	8/24/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-100	MW-100	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-101	MW-101	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-102	MW-102	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U
MW-103	MW-103	8/25/22	0.18 U	0.39 U	0.52 U	0.24 U	0.22 U	0.28 U	0.29 U	0.43 U	0.41 U	0.33 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
J+ = Analyte was detected in the trip blank and/or the method blank, result may be biased high.
J- = Analyte was past holding time, result may be biased low.
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.
R = Unusable as determined by data validation

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 45
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	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-4	MW-4	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-4 DUP1	MW-4	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-5	MW-5	8/25/22	0.61U	**0.69 J**	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-6	MW-6	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-7	MW-7	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	**0.29 J R**	0.30 U	0.44 U
MW-8	MW-8	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-9	MW-9	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-10	MW-10	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-11	MW-11	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-13	MW-13	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-14	MW-14	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-15	MW-15	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**12 H J-**	0.44 U
MW-16	MW-16	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-17	MW-17	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**0.33 H J-**	0.44 U
MW-18	MW-18	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**55**	0.44 U
MW-19	MW-19	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-20	MW-20	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	**0.27 J R**	**950 H J-**	0.44 U
MW-22	MW-22	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**6.4**	0.44 U
MW-23	MW-23	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**1.5**	0.44 U
MW-24	MW-24	8/26/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	**0.28 J R**	**150**	0.44 U
MW-24 DUP2	MW-24	8/26/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	**0.28 J R**	**150**	0.44 U
MW-25	MW-25	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U H R	0.44 U
MW-26	MW-26	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U H R	0.44 U
MW-27	MW-27	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**51 H J-**	0.44 U
MW-28	MW-28	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U H R	0.44 U
MW-29	MW-29	8/23/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U H R	0.44 U
MW-30	MW-30	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-31	MW-31	8/24/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U H R	0.44 U
MW-100	MW-100	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	**0.37 J**	0.44 U
MW-101	MW-101	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	**0.28 J R**	0.30 U	0.44 U
MW-102	MW-102	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.46 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	0.21 U	0.30 U	0.44 U
MW-103	MW-103	8/25/22	0.61 U	0.57 U	0.46 U	0.42 U	0.18 U	0.55 U	0.48 U	0.35 U	0.98 U	0.32 U	0.51 U	0.38 U	0.28 U	0.24 U	0.43 U	0.51 U	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 = Result is less than the RL but greater than or equal to the MDL and the
J+ = Analyte was detected in the trip blank and/or the method blank, result may b
J- = Analyte was past holding time, result may be biased low.
H= Sample was prepped or analyzed beyond the specific holding time.
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*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.
R = Unusable as determined by data validation

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 45
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	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.33 J R**	0.35 U	0.42 U
MW-4	MW-4	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.38 J R**	1.0 U	0.42 U
MW-4 DUP1	MW-4	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.42 J R**	0.35 U	0.42 U
MW-5	MW-5	8/25/22	0.29 U	0.43 U	0.35 U	**1.4**	0.28 U	0.35 U	0.42 U
MW-6	MW-6	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.38 J R**	0.35 U	0.42 U
MW-7	MW-7	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.39 J R**	0.35 U	0.42 U
MW-8	MW-8	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	1.0 U	0.42 U
MW-9	MW-9	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.32 J R**	0.35 U	0.42 U
MW-10	MW-10	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-11	MW-11	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.33 J R**	0.35 U	0.42 U
MW-13	MW-13	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	1.0 U	0.42 U
MW-14	MW-14	8/24/22	0.29 U	0.43 U	0.35 U	**5.2**	0.28 U	0.35 U	0.42 U
MW-15	MW-15	8/23/22	0.29 U	0.43 U	0.35 U	**1.5**	**0.37 J R**	1.0 U	0.42 U
MW-16	MW-16	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-17	MW-17	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.38 J R**	1.0 U	0.42 U
MW-18	MW-18	8/24/22	0.29 U	0.43 U	0.35 U	**9.8**	0.28 U	0.35 U	0.42 U
MW-19	MW-19	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-20	MW-20	8/24/22	0.29 U	0.43 U	0.35 U	**110**	**0.38 J R**	1.0 U	0.42 U
MW-22	MW-22	8/25/22	0.29 U	0.43 U	0.35 U	**1.8**	0.28 U	**1.5**	0.42 U
MW-23	MW-23	8/24/22	0.29 U	0.43 U	0.35 U	**2.2**	**0.39 J R**	0.35 U	0.42 U
MW-24	MW-24	8/26/22	0.29 U	0.43 U	0.35 U	**19**	**0.36 J R**	0.35 U	0.42 U
MW-24 DUP2	MW-24	8/26/22	0.29 U	0.43 U	0.35 U	**19**	**0.37 J R**	0.35 U	0.42 U
MW-25	MW-25	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	1.0 U	0.42 U
MW-26	MW-26	8/24/22	0.29 U	0.43 U	0.35 U	**0.50J**	**0.35 J R**	0.35 U	0.42 U
MW-27	MW-27	8/23/22	0.29 U	0.43 U	0.35 U	**13**	**0.47 J R**	1.0 U	0.42 U
MW-28	MW-28	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.34 J R**	0.35 U	0.42 U
MW-29	MW-29	8/23/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.38 J R**	1.0 U	0.42 U
MW-30	MW-30	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	**4.7**	0.42 U
MW-31	MW-31	8/24/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.35 J R**	0.35 U	0.42 U
MW-100	MW-100	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	**0.37 J R**	1.0 U	0.42 U
MW-101	MW-101	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-102	MW-102	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U
MW-103	MW-103	8/25/22	0.29 U	0.43 U	0.35 U	0.26 U	0.28 U	0.35 U	0.42 U

Notes:
Results reported in micrograms per liter (µg/L)
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Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 45
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	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-4	MW-4	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-4 DUP1	MW-4	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-5	MW-5	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-6	MW-6	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-7	MW-7	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-8	MW-8	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-9	MW-9	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-10	MW-10	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-11	MW-11	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-13	MW-13	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-14	MW-14	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-15	MW-15	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-16	MW-16	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-17	MW-17	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-18	MW-18	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-19	MW-19	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-20	MW-20	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-22	MW-22	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-23	MW-23	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-24	MW-24	8/26/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-24 DUP2	MW-24	8/26/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-25	MW-25	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-26	MW-26	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-27	MW-27	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-28	MW-28	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-29	MW-29	8/23/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-30	MW-30	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-31	MW-31	8/24/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-100	MW-100	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-101	MW-101	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-102	MW-102	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	1.4 U	0.93 U	0.44 U
MW-103	MW-103	8/25/22	0.34 U	0.29 U	0.53 U	0.50 U	0.40 U	0.79 U	0.44 U	0.53 U	0.44 U	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 = Result is less than the RL but greater than or equal to the MDL and the
J+ = Analyte was detected in the trip blank and/or the method blank, result may b
J- = Analyte was past holding time, result may be biased low.
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.
R = Unusable as determined by data validation

Bold indicates analyte was detected above the Method Detection Limit

Appendix C
Groundwater Analytical Results - Volatile Organics

Groundwater Monitoring Event 45
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	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	**0.36 J R**	0.22 U
MW-4	MW-4	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**3.2 B*+ R**	0.36 U	0.22 U
MW-4 DUP1	MW-4	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-5	MW-5	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	**0.36 J R *1**	0.22 U
MW-6	MW-6	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-7	MW-7	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-8	MW-8	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**3.2 B*+ R**	0.36 U	0.22 U
MW-9	MW-9	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	**0.36 J R**	0.22 U
MW-10	MW-10	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-11	MW-11	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-13	MW-13	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**3.0 B*+ R**	0.36 U	0.22 U
MW-14	MW-14	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26U	0.36 U	0.22 U
MW-15	MW-15	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**25 B J+**	0.36 U	0.22 U
MW-16	MW-16	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	**0.36 J R*1**	0.22 U
MW-17	MW-17	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**31 B J+**	0.36 U	0.22 U
MW-18	MW-18	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**5.1**	0.39 U	0.39 U	0.41 U	**63 B J+**	0.36 U	0.22 U
MW-19	MW-19	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-20	MW-20	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**8.2**	0.39 U	0.39 U	0.41 U	**140 B J+**	**0.36 J R**	0.22 U
MW-22	MW-22	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**0.76 J**	0.39 U	0.39 U	0.41 U	**5.5 B J+**	0.36 U	0.22 U
MW-23	MW-23	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**1.5 B J+**	**0.36 J R**	0.22 U
MW-24	MW-24	8/26/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**0.57J**	0.39 U	0.39 U	0.41 U	**68 B J+**	**0.36 J R*1**	0.22 U
MW-24 DUP2	MW-24	8/26/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	**0.56 J**	0.39 U	0.39 U	0.41 U	**69 B J+**	**0.36 J R*1**	0.22 U
MW-25	MW-25	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-26	MW-26	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-27	MW-27	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-28	MW-28	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-29	MW-29	8/23/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-30	MW-30	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36 U	0.22 U
MW-31	MW-31	8/24/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	0.26 U H R	0.36 U	0.22 U
MW-100	MW-100	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**31 B J+**	0.36 U	0.22 U
MW-101	MW-101	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**2.2 B J+**	0.36 U	0.22 U
MW-102	MW-102	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	**4.0 B J+**	0.36 U	0.22 U
MW-103	MW-103	8/25/22	0.50 U	0.39 U	0.49 U	0.53 U	0.58 U	0.41 U	0.39 U	0.39 U	0.41 U	1.0 U	0.36U	0.22 U

Notes:
Results reported in micrograms per liter (µg/L)
U = Analyte was not detected above indicated value.
J = Result is less than the RL but greater than or equal to the MDL and the
J+ = Analyte was detected in the trip blank and/or the method blank, result may b
J- = Analyte was past holding time, result may be biased low.
H= Sample was prepped or analyzed beyond the specific holding time.
B= Compound was found in the blank and sample.
*1= LCS/LCSD RPD exceeds control limits.
*+= LCS and /or LCSD is outside acceptance limits, high biased.
R = Unusable as determined by data validation

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, 2022 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

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 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 on ice.
- Trip Blank – The following 7 analytes were detected in the Trip Blank:

Analyte	Result in ug/L	Flag	RL	MDL
Chloromethane	0.32	J	1.0	0.28
Bromomethane	0.27	J	1.0	0.21
Trichlorofluoromethane	0.36	J	1.0	0.36
cis-1,2-Dichloroethene	0.90	J B	1.0	0.35
Trichloroethene	1.5	B	1.0	0.26
1,2,4-Trichlorobenzene	0.45	J B	1.0	0.33
1,2,3-Trichlorobenzene	0.54	J B	2.0	0.43

Cis-1,2-Dichloroethene, Trichloroethene, 1,2,4-Trichlorobenzene, and 1,2,3-Trichlorobenzene were also detected in the Method Blanks.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
Dup1 (MW4)	Chloromethane	0.42 J	0.32 J	1.0	0.28	580-402999	0.42 J R
Dup2 (MW24)	Chloromethane	0.37 J	0.32 J	1.0	0.28	580-403307	0.37 J R
MW3	Chloromethane	0.33 J	0.32 J	1.0	0.28	580-403032	0.33 J R
MW4	Chloromethane	0.38 J	0.32 J	1.0	0.28	580-402903	0.38 J R
MW6	Chloromethane	0.38 J	0.32 J	1.0	0.28	580-403032	0.38 J R
MW7	Chloromethane	0.39 J	0.32 J	1.0	0.28	580-403307	0.39 J R
MW9	Chloromethane	0.32 J	0.32 J	1.0	0.28	580-403032	0.32 J R
MW11	Chloromethane	0.33 J	0.32 J	1.0	0.28	580-403307	0.33 J R
MW15	Chloromethane	0.37 J	0.32 J	1.0	0.28	580-402999	0.37 J R
MW17	Chloromethane	0.38 J	0.32 J	1.0	0.28	580-402999	0.38 J R
MW20	Chloromethane	0.38 J	0.32 J	1.0	0.28	580-403032	0.38 J R
MW23	Chloromethane	0.39 J	0.32 J	1.0	0.28	580-403032	0.39 J R
MW24	Chloromethane	0.36 J	0.32 J	1.0	0.28	580-403307	0.36 J R
MW26	Chloromethane	0.35 J	0.32 J	1.0	0.28	580-402999	0.35 J R
MW27	Chloromethane	0.47 J	0.32 J	1.0	0.28	580-402999	0.47 J R
MW28	Chloromethane	0.34 J	0.32 J	1.0	0.28	580-402999	0.34 J R
MW29	Chloromethane	0.38 J	0.32 J	1.0	0.28	580-402999	0.38 J R
MW31	Chloromethane	0.35 J	0.32 J	1.0	0.28	580-402999	0.35 J R
MW100	Chloromethane	0.37 J	0.32 J	1.0	0.28	580-403307	0.37 J R
Trip Blank	Chloromethane	0.32 J	0.32 J	1.0	0.28	580-402999	0.32 J R

All other sample results were ND for Chloromethane and no further qualification is necessary. Chloromethane is not normally detected in the NETL samples, and all of the sample detections are virtually identical to those in the Trip Blank. Chloromethane was not detected in the Method Blank. All sample detections of Chloromethane are believed to be the result of gross contamination and should be labelled R for unusable.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
Dup2 (MW24)	Bromomethane	0.28 J	0.27 J	1.0	0.21	580-403307	0.28 J R
MW7	Bromomethane	0.29 J	0.27 J	1.0	0.21	580-403307	0.29 J R
MW20	Bromomethane	0.27 J	0.27 J	1.0	0.21	580-403032	0.27 J R
MW24	Bromomethane	0.28 J	0.27 J	1.0	0.21	580-403307	0.28 J R
MW101	Bromomethane	0.28 J	0.27 J	1.0	0.21	580-403307	0.28 J R
Trip Blank	Bromomethane	0.27 J	0.27 J	1.0	0.21	580-402999	0.27 J R

All other sample results were ND for Bromomethane and no further qualification is necessary. Bromomethane is not normally detected in the NETL samples, and all of the sample detections are virtually identical to those in the Trip Blank. Bromomethane was not detected in the Method

Blank. All sample detections of Bromomethane are believed to be the result of gross contamination and should be labelled R for unusable.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
Dup2 (MW24)	Trichlorofluoromethane	0.36 J *1	0.36 J	1.0	0.36	580-403307	0.36 J R *1
MW3	Trichlorofluoromethane	0.36 J	0.36 J	1.0	0.36	580-403032	0.36 J R
MW5	Trichlorofluoromethane	0.36 J *1	0.36 J	1.0	0.36	580-403307	0.36 J R *1
MW9	Trichlorofluoromethane	0.36 J	0.36 J	1.0	0.36	580-403032	0.36 J R
MW16	Trichlorofluoromethane	0.36 J *1	0.36 J	1.0	0.36	580-403307	0.36 J R *1
MW20	Trichlorofluoromethane	0.36 J	0.36 J	1.0	0.36	580-403032	0.36 J R
MW23	Trichlorofluoromethane	0.36 J	0.36 J	1.0	0.36	580-403032	0.36 J R
MW24	Trichlorofluoromethane	0.36 J *1	0.36 J	1.0	0.36	580-403307	0.36 J R *1
Trip Blank	Trichlorofluoromethane	0.36 J	0.36 J	1.0	0.36	580-402999	0.36 J R

All other sample results were ND for Trichlorofluoromethane and no further qualification is necessary. Trichlorofluoromethane is not normally detected in the NETL samples, and all of the sample detections are virtually identical to those in the Trip Blank. Trichlorofluoromethane was not detected in the Method Blank. All sample detections of Trichlorofluoromethane are believed to be the result of gross contamination and should be labelled R for unusable.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
MW4	cis-1,2-Dichloroethene	0.88 J B *+	0.90 J B	1.0	0.35	580-402903	1.0 U
MW8	cis-1,2-Dichloroethene	0.82 J B *+	0.90 J B	1.0	0.35	580-402903	1.0 U
MW13	cis-1,2-Dichloroethene	0.75 J B *+	0.90 J B	1.0	0.35	580-402903	1.0 U
MW15	cis-1,2-Dichloroethene	0.42 J B	0.90 J B	1.0	0.35	580-402999	1.0 U
MW17	cis-1,2-Dichloroethene	0.90 J B	0.90 J B	1.0	0.35	580-402999	1.0 U
MW20	cis-1,2-Dichloroethene	0.54 J	0.90 J B	1.0	0.35	580-403032	1.0 U
MW22	cis-1,2-Dichloroethene	1.5	0.90 J B	1.0	0.35	580-403307	1.5 J+
MW25	cis-1,2-Dichloroethene	0.50 J B	0.90 J B	1.0	0.35	580-402999	1.0 U
MW27	cis-1,2-Dichloroethene	0.44 J B	0.90 J B	1.0	0.35	580-402999	1.0 U
MW29	cis-1,2-Dichloroethene	0.37 J B	0.90 J B	1.0	0.35	580-402999	1.0 U
MW30	cis-1,2-Dichloroethene	4.7	0.90 J B	1.0	0.35	580-403144	4.7 J+
MW100	cis-1,2-Dichloroethene	0.44 J	0.90 J B	1.0	0.35	580-403307	1.0 U
Trip Blank	cis-1,2-Dichloroethene	0.90 J B	0.90 J B	1.0	0.35	580-402999	0.90 J B R

All other sample results were ND and no further qualification is necessary. All samples with detections less than that of the Trip Blank (0.90 J) will be qualified as ND at the Reporting Limit. All samples with detections greater than that of the Trip Blank will be qualified as J+ for estimated, biased high.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
MW4	Trichloroethene	3.2 B *+	1.5	1.0	0.26	580-402903	3.2 B *+ R
MW8	Trichloroethene	3.2 B *+	1.5	1.0	0.26	580-402903	3.2 B *+ R
MW13	Trichloroethene	3.0 B *+	1.5	1.0	0.26	580-402903	3.0 B *+ R
MW15	Trichloroethene	25 B	1.5	1.0	0.26	580-402999	25 B J+
MW17	Trichloroethene	31 B	1.5	1.0	0.26	580-402999	31 B J+
MW3	Trichloroethene	0.97 J B	1.5	1.0	0.26	580-403032	1.0 U
MW6	Trichloroethene	0.69 J B	1.5	1.0	0.26	580-403032	1.0 U
MW9	Trichloroethene	0.64 J B	1.5	1.0	0.26	580-403032	1.0 U
MW10	Trichloroethene	0.54 J B	1.5	1.0	0.26	580-403032	1.0 U
MW18	Trichloroethene	63 B	1.5	1.0	0.26	580-403032	1.0 U
MW19	Trichloroethene	0.69 J B	1.5	1.0	0.26	580-403032	1.0 U
MW20	Trichloroethene	140 B	1.5	1.0	0.26	580-403032	140 B J+
MW23	Trichloroethene	1.5 B	1.5	1.0	0.26	580-403032	1.5 B J+
MW30	Trichloroethene	0.53 J B	1.5	1.0	0.26	580-403144	1.0 U
Dup2 (MW24)	Trichloroethene	69 B	1.5	1.0	0.26	580-403307	69 B J+
MW5	Trichloroethene	0.34 J B	1.5	1.0	0.26	580-403307	1.0 U
MW7	Trichloroethene	0.34 J B	1.5	1.0	0.26	580-403307	1.0 U
MW11	Trichloroethene	0.35 J B	1.5	1.0	0.26	580-403307	1.0 U
MW16	Trichloroethene	0.35 J B	1.5	1.0	0.26	580-403307	1.0 U
MW22	Trichloroethene	5.5 B	1.5	1.0	0.26	580-403307	5.5 B J+
MW24	Trichloroethene	68 B	1.5	1.0	0.26	580-403307	68 B J+
MW100	Trichloroethene	31 B	1.5	1.0	0.26	580-403307	31 B J+
MW101	Trichloroethene	2.2 B	1.5	1.0	0.26	580-403307	2.2 B J+
MW102	Trichloroethene	4.0 B	1.5	1.0	0.26	580-403307	4.0 B J+
MW103	Trichloroethene	0.61 J B	1.5	1.0	0.26	580-403307	1.0 U
Trip Blank	Trichloroethene	1.5 B	1.5	1.0	0.26	580-403622	1.5 B J+
MW3	Trichloroethene	0.41 J H	1.5	1.0	0.26	580-405308	1.0 U
MW18	Trichloroethene	61 H	1.5	1.0	0.26	580-405308	61 H J+
MW20	Trichloroethene	130 H	1.5	50	13	580-405308	130 H J+
MW23	Trichloroethene	0.78 J H	1.5	1.0	0.26	580-405308	1.0 U

TCE has never been detected in samples from MW-4, 7, or 13. The detections at greater than the RL are considered to be a result of gross contamination and are qualified as R for unusable. All other sample results were ND and no further qualification is necessary. All samples with detections less than that of the Trip Blank (1.5) will be qualified as ND at the Reporting Limit. All samples with detections greater than that of the Trip Blank will be qualified as J+ for estimated, biased high.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
MW5	1,2,4-Trichlorobenzene	0.56 J	0.45 JB	1.0	0.33	580-403307	1.0 U
Trip Blank	1,2,4-Trichlorobenzene	0.45 JB	0.45 JB	1.0	0.33	580-402999	0.45 JB R

All other sample results were ND and no further qualification is necessary. Detection in MW5 should be labelled R for unusable.

Sample	Analyte	Sample Result in ug/L	Trip Blank Result in ug/L	RL	MDL	Analysis Batch	Result after Validation
MW5	1,2,3-Trichlorobenzene	0.78 J	0.54 JB	2.0	0.43	580-403307	1.0 U
Trip Blank	1,2,3-Trichlorobenzene	0.54 JB	0.54 JB	2.0	0.43	580-402999	0.54 JB R

All other sample results were ND and no further qualification is necessary. 1,2,3-Trichlorobenzene has never been detected on the NETL Site. Detection in MW5 should be labelled R for unusable.

- Method Blanks – Seven analytes were detected in the method blanks in five batches:

Batch	Analyte	Result in ug/L	Reporting Limit	MDL	Wells
580-403307	Trichloroethene	0.454 J	1.0	0.26	Dup2, MW5, 7, 11, 16, 22, 24, 100, 101, 102, 103
580-402999	1,2,4-Trichlorobenzene	0.392 J	1.0	0.33	Dup1, MW15, 17, 25, 26, 27, 28, 29, 31
580-402999	1,2,3-Trichlorobenzene	0.544 J	2.0	0.43	Dup1, MW15, 17, 25, 26, 27, 28, 29, 31
580-402999	cis-1,2-Dichloroethene	0.58 J	1.0	0.35	Dup1, MW15, 17, 25, 26, 27, 28, 29, 31
580-402999	Trichloroethene	1.7	1.0	0.26	Dup1, MW15, 17, 25, 26, 27, 28, 29, 31
580-402903	1,2,4-Trichlorobenzene	0.465 J	1.0	0.33	MW4, 8, 13
580-402903	1,2,3-Trichlorobenzene	0.5	2.0	0.43	MW4, 8, 13
580-402903	Trichloroethene	9.35	1.0	0.26	MW4, 8, 13
580-402903	cis-1,2-Dichloroethene	3.07	1.0	0.35	MW4, 8, 13
580-403032	Trichloroethene	0.674	1.0	0.26	MW3, 6, 9, 10, 14, 18, 19, 20, 20, 23
580-403144	Trichloroethene	0.648	1.0	0.26	MW30

Results for these analytes in these batches were:

Sample	Batch	Trichloroethene result	TCE MB Result	cis-1,2-Dichloroethene result	DCE MB Result	TCE Data Qualified	DCE Data Qualified
Dup2 (MW24)	580-403307	69	0.454 J	--	--	69 B J+	--
MW100	580-403307	31	0.454 J	--	--	31 J+	--
MW101	580-403307	2.2	0.454 J	--	--	2.2 B J+	--
MW102	580-403307	4.0	0.454 J	--	--	4.0 B J+	--
MW103	580-403307	0.61 J	0.454 J	--	--	1.0 U	--
MW11	580-403307	0.35 J	0.454 J	--	--	1.0 U	--
MW16	580-403307	0.35 J	0.454 J	--	--	1.0 U	--
MW22	580-403307	5.5	0.454 J	--	--	5.5 B J+	--
MW24	580-403307	68	0.454 J	--	--	68 B J+	--
MW5	580-403307	0.34 J	0.454 J	--	--	1.0 U	--
MW7	580-403307	0.34 J	0.454 J	--	--	1.0 U	--
MW15	580-402999	25	1.7	0.42 J	0.58 J	25 B J+	1.0 U
MW17	580-402999	31	1.7	0.90 J	0.58 J	31B J+	1.0 U
MW25	580-402999	--	--	0.50 J	0.58 J	--	1.0 U
MW27	580-402999	--	--	0.44 J	0.58 J	--	1.0 U
MW29	580-402999	--	--	0.37 J	0.58 J	--	1.0 U
MW13	580-402903	3.0	9.35	0.75	3.07	3.0 R	0.75 R
MW4	580-402903	3.2	9.35	0.88	3.07	3.2 R	0.88 R
MW8	580-402903	3.2	9.35	0.82	3.07	3.2 R	0.82 R
MW10	580-403032	0.54 J	0.674 J	--	--	1.0 U	--
MW14	580-403032	0.26 U	0.674 J	--	--	1.0 U	--
MW18	580-403032	63	0.674 J	--	--	63 B J+	--
MW19	580-403032	0.69 J	0.674 J	--	--	1.0 U	--
MW20	580-403032	140	0.674 J	--	--	140 B J+	--
MW23	580-403032	1.5	0.674 J	--	--	1.5 B J+	--
MW3	580-403032	0.97 J	0.674 J	--	--	1.0 U	--
MW6	580-403032	0.69 J	0.674 J	--	--	1.0 U	--
MW9	580-403032	0.64 J	0.674 J	--	--	1.0 U	--
MW30	580-403144	0.53 J	0.648 J	--	--	1.0 U	--

Only values greater than the RL are considered valid, and should be qualified as B J+, biased high. All other detections will be qualified as ND at the reporting limit. The TCE and DCE detections in MW4, MW8, and MW13 are believed to be a result of gross contamination, since the Method Blank detections were 9.35 and 3.07 ug/L, respectively. These detections will be qualified as unusable, R.

Sample	Batch	1,2,3-Trichloro-benzene results	1,2,3-Trichloro-benzene Method Blank	1,2,4-Trichloro-benzene results	1,2,4-Trichloro-benzene Method Blank	1,2,3- Data Qualification	1,2,4- Data Qualification
Dup1	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW15	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW17	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW25	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW26	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW27	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW28	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW29	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW31	580-402999	--	0.54 J	--	0.39 J	NONE	NONE
MW13	580-402903	--	0.50 J	--	0.46 J	NONE	NONE
MW4	580-402903	--	0.50 J	--	0.46 J	NONE	NONE
MW8	580-402903	--	0.50 J	--	0.46 J	NONE	NONE

Although 1,2,3- and 1,2,4-Trichlorobenzene were detected in the Method Blank, they were ND in the affected analysis batches. No data qualification is necessary.

- Surrogate Recoveries –
  Recoveries for Toluene-d8 were very slightly low for samples MW5 and MW-11. The relative percent difference (RPD) is low and no data qualification is required.

Sample	Relative per cent difference
MW5	2%
MW11	3%

Recoveries for 4-Bromofluorobenzene were slightly high for samples MW8, MW11, and MW13. The relative percent difference (RPD) is low and no data qualification is required.

Sample	Relative per cent difference
MW8	4%
MW11	5%
MW13	3%

All other surrogate recoveries were within acceptance criteria.

- Matrix Spikes – No matrix spikes were analyzed.

- Field Duplicate – There were no usable detections in the duplicate pair MW4 and DUP1.

MW4	Result ug/L	Flag	MDL ug/L	DUP1	Result ug/L	Flag	MDL ug/L
1,1,1,2-Tetrachloroethane	0.18	U	0.18	1,1,1,2-Tetrachloroethane	0.18	U	0.18
1,1,1-Trichloroethane	0.39	U	0.39	1,1,1-Trichloroethane	0.39	U	0.39
1,1,1-Trichloroethane	0.39	U H	0.39				
1,1,2,2-Tetrachloroethane	0.52	U	0.52	1,1,2,2-Tetrachloroethane	0.52	U	0.52
1,1,2-Trichloroethane	0.24	U	0.24	1,1,2-Trichloroethane	0.24	U	0.24
1,1-Dichloroethane	0.22	U	0.22	1,1-Dichloroethane	0.22	U	0.22
1,1-Dichloroethene	0.28	U	0.28	1,1-Dichloroethene	0.28	U	0.28
1,1-Dichloropropene	0.29	U	0.29	1,1-Dichloropropene	0.29	U	0.29
1,2,3-Trichlorobenzene	0.43	U	0.43	1,2,3-Trichlorobenzene	0.43	U	0.43
1,2,3-Trichloropropane	0.41	U	0.41	1,2,3-Trichloropropane	0.41	U	0.41
1,2,4-Trichlorobenzene	0.33	U	0.33	1,2,4-Trichlorobenzene	0.33	U	0.33
1,2,4-Trimethylbenzene	0.61	U	0.61	1,2,4-Trimethylbenzene	0.61	U	0.61
1,2-Dibromo-3-Chloropropane	0.57	U	0.57	1,2-Dibromo-3-Chloropropane	0.57	U	0.57
1,2-Dichlorobenzene	0.46	U	0.46	1,2-Dichlorobenzene	0.46	U	0.46
1,2-Dichloroethane	0.42	U	0.42	1,2-Dichloroethane	0.42	U	0.42
1,2-Dichloropropane	0.18	U	0.18	1,2-Dichloropropane	0.18	U	0.18
1,3,5-Trimethylbenzene	0.55	U	0.55	1,3,5-Trimethylbenzene	0.55	U	0.55
1,3-Dichlorobenzene	0.48	U	0.48	1,3-Dichlorobenzene	0.48	U	0.48
1,3-Dichloropropane	0.35	U	0.35	1,3-Dichloropropane	0.35	U	0.35
1,4-Dichlorobenzene	0.46	U	0.46	1,4-Dichlorobenzene	0.46	U	0.46
2,2-Dichloropropane	0.32	U	0.32	2,2-Dichloropropane	0.32	U	0.32
2-Chlorotoluene	0.51	U	0.51	2-Chlorotoluene	0.51	U	0.51
4-Chlorotoluene	0.38	U	0.38	4-Chlorotoluene	0.38	U	0.38
4-Isopropyltoluene	0.28	U	0.28	4-Isopropyltoluene	0.28	U	0.28
Benzene	0.24	U	0.24	Benzene	0.24	U	0.24
Bromobenzene	0.43	U	0.43	Bromobenzene	0.43	U	0.43
Bromoform	0.51	U	0.51	Bromoform	0.51	U	0.51
Bromomethane	0.21	U	0.21	Bromomethane	0.21	U	0.21
Carbon tetrachloride	0.30	U	0.30	Carbon tetrachloride	0.30	U	0.30
Carbon tetrachloride	0.30	U H	0.30				
Chlorobenzene	0.44	U	0.44	Chlorobenzene	0.44	U	0.44
Chlorobromomethane	0.29	U	0.29	Chlorobromomethane	0.29	U	0.29
Chlorodibromomethane	0.43	U	0.43	Chlorodibromomethane	0.43	U	0.43
Chloroethane	0.35	U	0.35	Chloroethane	0.35	U	0.35
Chloroform	0.26	U	0.26	Chloroform	0.26	U	0.26

MW4	Result ug/L	Flag	MDL ug/L	DUP1	Result ug/L	Flag	MDL ug/L
Chloromethane	0.38	J R	0.28	Chloromethane	0.42	J R	0.28
cis-1,2-Dichloroethene	0.88	J B *+ R	0.35	cis-1,2-Dichloroethene	0.35	U	0.35
cis-1,2-Dichloroethene	0.35	U H	0.35				
cis-1,3-Dichloropropene	0.42	U	0.42	cis-1,3-Dichloropropene	0.42	U	0.42
Dibromomethane	0.34	U	0.34	Dibromomethane	0.34	U	0.34
Dichlorobromomethane	0.29	U	0.29	Dichlorobromomethane	0.29	U	0.29
Dichlorodifluoromethane	0.53	U	0.53	Dichlorodifluoromethane	0.53	U	0.53
Ethylbenzene	0.50	U	0.50	Ethylbenzene	0.50	U	0.50
Ethylene Dibromide	0.40	U	0.40	Ethylene Dibromide	0.40	U	0.40
Hexachlorobutadiene	0.79	U	0.79	Hexachlorobutadiene	0.79	U	0.79
Isopropylbenzene	0.44	U	0.44	Isopropylbenzene	0.44	U	0.44
Methyl tert-butyl ether	0.44	U	0.44	Methyl tert-butyl ether	0.44	U	0.44
Methylene Chloride	1.4	U	1.4	Methylene Chloride	1.4	U	1.4
m-Xylene & p-Xylene	0.53	U	0.53	m-Xylene & p-Xylene	0.53	U	0.53
Naphthalene	0.93	U	0.93	Naphthalene	0.93	U	0.93
n-Butylbenzene	0.44	U	0.44	n-Butylbenzene	0.44	U	0.44
N-Propylbenzene	0.50	U	0.50	N-Propylbenzene	0.50	U	0.50
o-Xylene	0.39	U	0.39	o-Xylene	0.39	U	0.39
sec-Butylbenzene	0.49	U	0.49	sec-Butylbenzene	0.49	U	0.49
Styrene	0.53	U	0.53	Styrene	0.53	U	0.53
tert-Butylbenzene	0.58	U	0.58	tert-Butylbenzene	0.58	U	0.58
Tetrachloroethene	0.41	U	0.41	Tetrachloroethene	0.41	U	0.41
Toluene	0.39	U	0.39	Toluene	0.39	U	0.39
trans-1,2-Dichloroethene	0.39	U	0.39	trans-1,2-Dichloroethene	0.39	U	0.39
trans-1,3-Dichloropropene	0.41	U	0.41	trans-1,3-Dichloropropene	0.41	U	0.41
Trichloroethene	0.26	U H	0.26	Trichloroethene	0.26	U	0.26
Trichloroethene	3.2	B *+ R	0.26				
Trichlorofluoromethane	0.36	U	0.36	Trichlorofluoromethane	0.36	U	0.36
Vinyl chloride	0.22	U	0.22	Vinyl chloride	0.22	U	0.22

- Field Duplicate – Results from MW24 and DUP2 were almost identical with the exception of the carbon tetrachloride reanalysis, which was carried out 24 days past the 14-day holding time.

MW24	Result ug/L	Flag	MDL ug/L	DUP2	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
1,1,1,2-Tetrachloroethane	0.18	U	0.18	1,1,1,2-Tetrachloroethane	0.18	U	0.18		
1,1,1-Trichloroethane	0.39	U	0.39	1,1,1-Trichloroethane	0.39	U	0.39		
1,1,1-Trichloroethane	2.0	U H *1	2.0	1,1,1-Trichloroethane	2.0	U H *1	2.0		
1,1,2,2-Tetrachloroethane	0.52	U	0.52	1,1,2,2-Tetrachloroethane	0.52	U	0.52		
1,1,2-Trichloroethane	0.24	U	0.24	1,1,2-Trichloroethane	0.24	U	0.24		
1,1-Dichloroethane	0.22	U	0.22	1,1-Dichloroethane	0.22	U	0.22		
1,1-Dichloroethene	0.28	U	0.28	1,1-Dichloroethene	0.28	U	0.28		
1,1-Dichloropropene	0.29	U	0.29	1,1-Dichloropropene	0.29	U	0.29		
1,2,3-Trichlorobenzene	0.43	U	0.43	1,2,3-Trichlorobenzene	0.43	U	0.43		
1,2,3-Trichloropropane	0.41	U	0.41	1,2,3-Trichloropropane	0.41	U	0.41		
1,2,4-Trichlorobenzene	0.33	U	0.33	1,2,4-Trichlorobenzene	0.33	U	0.33		
1,2,4-Trimethylbenzene	0.61	U	0.61	1,2,4-Trimethylbenzene	0.61	U	0.61		
1,2-Dibromo-3-Chloropropane	0.57	U	0.57	1,2-Dibromo-3-Chloropropane	0.57	U	0.57		
1,2-Dichlorobenzene	0.46	U	0.46	1,2-Dichlorobenzene	0.46	U	0.46		
1,2-Dichloroethane	0.42	U	0.42	1,2-Dichloroethane	0.42	U	0.42		
1,2-Dichloropropane	0.18	U	0.18	1,2-Dichloropropane	0.18	U	0.18		
1,3,5-Trimethylbenzene	0.55	U	0.55	1,3,5-Trimethylbenzene	0.55	U	0.55		
1,3-Dichlorobenzene	0.48	U	0.48	1,3-Dichlorobenzene	0.48	U	0.48		
1,3-Dichloropropane	0.35	U	0.35	1,3-Dichloropropane	0.35	U	0.35		
1,4-Dichlorobenzene	0.46	U	0.46	1,4-Dichlorobenzene	0.46	U	0.46		
2,2-Dichloropropane	0.32	U	0.32	2,2-Dichloropropane	0.32	U	0.32		
2-Chlorotoluene	0.51	U	0.51	2-Chlorotoluene	0.51	U	0.51		
4-Chlorotoluene	0.38	U	0.38	4-Chlorotoluene	0.38	U	0.38		
4-Isopropyltoluene	0.28	U	0.28	4-Isopropyltoluene	0.28	U	0.28		
Benzene	0.24	U	0.24	Benzene	0.24	U	0.24		
Bromobenzene	0.43	U	0.43	Bromobenzene	0.43	U	0.43		
Bromoform	0.51	U	0.51	Bromoform	0.51	U	0.51		
Bromomethane	0.28	J R	0.21	Bromomethane	0.28	J R	0.21		
Carbon tetrachloride	150		0.30	Carbon tetrachloride	150		0.30	0	0%
Carbon tetrachloride	1.5	U H *1	1.5	Carbon tetrachloride	220	H *1	1.5	220	100 %
Chlorobenzene	0.44	U	0.44	Chlorobenzene	0.44	U	0.44		
Chlorobromomethane	0.29	U	0.29	Chlorobromomethane	0.29	U	0.29		
Chloro-dibromomethane	0.43	U *-	0.43	Chloro-dibromomethane	0.43	U *-	0.43		
Chloro-dibromomethane	2.2	U H	2.2	Chloro-dibromomethane	2.2	U H	2.2		
Chloroethane	0.35	U	0.35	Chloroethane	0.35	U	0.35		

MW24	Result ug/L	Flag	MDL ug/L	DUP2	Result ug/L	Flag	MDL ug/L	Difference ug/L	% RPD
Chloroform	19		0.26	Chloroform	19		0.26	0	0%
Chloromethane	0.36	J R	0.28	Chloromethane	0.37	J R	0.28		
cis-1,2-Dichloroethene	0.35	U	0.35	cis-1,2-Dichloroethene	0.35	U	0.35		
cis-1,3-Dichloropropene	0.42	U *-	0.42	cis-1,3-Dichloropropene	0.42	U *-	0.42		
cis-1,3-Dichloropropene	2.1	U H *+ *1	2.1	cis-1,3-Dichloropropene	2.1	U H *+ *1	2.1		
Dibromomethane	0.34	U	0.34	Dibromomethane	0.34	U	0.34		
Dichloro-bromomethane	0.29	U	0.29	Dichloro-bromomethane	0.29	U	0.29		
Dichloro-difluoromethane	0.53	U	0.53	Dichloro-difluoromethane	0.53	U	0.53		
Ethylbenzene	0.50	U	0.50	Ethylbenzene	0.50	U	0.50		
Ethylene Dibromide	0.40	U	0.40	Ethylene Dibromide	0.40	U	0.40		
Hexachlorobutadiene	0.79	U	0.79	Hexachlorobutadiene	0.79	U	0.79		
Isopropylbenzene	0.44	U	0.44	Isopropylbenzene	0.44	U	0.44		
Methyl tert-butyl ether	0.44	U	0.44	Methyl tert-butyl ether	0.44	U	0.44		
Methylene Chloride	1.4	U	1.4	Methylene Chloride	1.4	U	1.4		
m-Xylene & p-Xylene	0.53	U	0.53	m-Xylene & p-Xylene	0.53	U	0.53		
Naphthalene	0.93	U	0.93	Naphthalene	0.93	U	0.93		
n-Butylbenzene	0.44	U	0.44	n-Butylbenzene	0.44	U	0.44		
N-Propylbenzene	0.50	U	0.50	N-Propylbenzene	0.50	U	0.50		
o-Xylene	0.39	U	0.39	o-Xylene	0.39	U	0.39		
sec-Butylbenzene	0.49	U	0.49	sec-Butylbenzene	0.49	U	0.49		
Styrene	0.53	U	0.53	Styrene	0.53	U	0.53		
tert-Butylbenzene	0.58	U	0.58	tert-Butylbenzene	0.58	U	0.58		
Tetrachloroethene	0.57	J	0.41	Tetrachloroethene	0.56	J	0.41	0.15	1%
Toluene	0.39	U	0.39	Toluene	0.39	U	0.39		
trans-1,2-Dichloroethene	0.39	U	0.39	trans-1,2-Dichloroethene	0.39	U	0.39		
trans-1,3-Dichloropropene	0.41	U *-	0.41	trans-1,3-Dichloropropene	0.41	U *-	0.41		
trans-1,3-Dichloropropene	2.1	U H	2.1	trans-1,3-Dichloropropene	2.1	U H	2.1		
Trichloroethene	68	B	0.26	Trichloroethene	69	B	0.26	1	1.5 %
Trichloro-fluoromethane	0.36	J *1 R	0.36	Trichloro-fluoromethane	0.36	J *1 R	0.36		
Trichloro-fluoromethane	1.8	U H *1	1.8	Trichloro-fluoromethane	1.8	U H *1	1.8		
Vinyl chloride	0.22	U	0.22	Vinyl chloride	0.22	U	0.22		

- Holding Times – Samples were reanalyzed for up to 9 analytes in all 32 wells. This reanalysis was performed from 13 to 25 days past the 14-day holding time. According to the EPA data validation document: *If holding times are grossly exceeded, qualify detects as estimated low (J-) and non-detects as unusable (R).*

Sample	Analyte	Result	Flag	MDL	Collection Date	Analysis Date	Days past holding time	Data Qualification
Dup1	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 12:37	09/22/2022 22:24	16.4	H R
Dup1	Carbon tetrachloride	ND	H	0.30	08/23/2022 12:37	09/22/2022 22:24	16.4	H R
Dup1	Trichloroethene	ND	H	0.26	08/23/2022 12:37	09/22/2022 22:24	16.4	H R
Dup2	Trichlorofluoromethane	ND	H *1	1.8	08/26/2022 09:38	10/03/2022 15:53	24.3	H R *1
Dup2	1,1,1-Trichloroethane	ND	H *1	2.0	08/26/2022 09:38	10/03/2022 15:53	24.3	H R *1
Dup2	Carbon tetrachloride	220	H *1	1.5	08/26/2022 09:38	10/03/2022 15:53	24.3	H *1 J-
Dup2	cis-1,3-Dichloropropene	ND	H *+ *1	2.1	08/26/2022 09:38	10/03/2022 15:53	24.3	H R *+ *1
Dup2	trans-1,3-Dichloropropene	ND	H	2.1	08/26/2022 09:38	10/03/2022 15:53	24.3	H R
Dup2	Chlorodibromomethane	ND	H	2.2	08/26/2022 09:38	10/03/2022 15:53	24.3	H R
MW10	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW10	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW10	Carbon tetrachloride	ND	H	0.30	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW10	Trichloroethene	ND	H	0.26	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW10	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW10	Chlorodibromomethane	ND	H	0.43	08/24/2022 14:12	09/28/2022 16:55	21.1	H R
MW101	Trichlorofluoromethane	ND	H	0.36	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW101	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW101	Carbon tetrachloride	ND	H	0.30	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW101	cis-1,3-Dichloropropene	ND	H	0.42	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW101	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW101	Chlorodibromomethane	ND	H	0.43	08/25/2022 15:52	09/21/2022 23:40	13.3	H R
MW102	Trichlorofluoromethane	ND	H	0.36	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW102	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW102	Carbon tetrachloride	ND	H	0.30	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW102	cis-1,3-Dichloropropene	ND	H	0.42	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW102	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW102	Chlorodibromomethane	ND	H	0.43	08/25/2022 16:55	09/22/2022 00:04	13.3	H R
MW103	Trichlorofluoromethane	ND	H *- *1	0.36	08/25/2022 17:36	09/22/2022 21:59	14.2	H R *- *1
MW103	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 17:36	09/22/2022 21:59	14.2	H R
MW103	Carbon tetrachloride	ND	H	0.30	08/25/2022 17:36	09/22/2022 21:59	14.2	H R
MW103	cis-1,3-Dichloropropene	ND	H *+ *1	0.42	08/25/2022 17:36	09/22/2022 21:59	14.2	H R *+ *1

Sample	Analyte	Result	Flag	MDL	Collection Date	Analysis Date	Days past holding time	Data Qualification
MW103	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 17:36	09/22/2022 21:59	14.2	H R
MW103	Chlorodibromomethane	ND	H	0.43	08/25/2022 17:36	09/22/2022 21:59	14.2	H R
MW11	Trichlorofluoromethane	ND	H	0.36	08/25/2022 14:20	09/21/2022 18:25	13.2	H R
MW11	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 14:20	09/21/2022 18:25	13.2	H R
MW11	Carbon tetrachloride	ND	H	0.30	08/25/2022 14:20	09/21/2022 18:25	13.2	H R
MW11	cis-1,3-Dichloropropene	ND	H *1	0.42	08/25/2022 14:20	09/21/2022 18:25	13.2	H R *1
MW11	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 14:20	09/21/2022 18:25	13.2	H R
MW11	Chlorodibromomethane	ND	H	0.43	08/25/2022 14:20	09/21/2022 18:25	13.2	H R
MW13	cis-1,2-Dichloroethene	ND	H	0.35	08/23/2022 16:42	09/21/2022 18:49	15.1	H R
MW13	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 16:42	09/21/2022 18:49	15.1	H R
MW13	Carbon tetrachloride	ND	H	0.30	08/23/2022 16:42	09/21/2022 18:49	15.1	H R
MW13	Trichloroethene	ND	H	0.26	08/23/2022 16:42	09/21/2022 18:49	15.1	H R
MW14	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 12:24	09/28/2022 17:19	21.2	H R
MW14	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 12:24	09/28/2022 17:19	21.2	H R
MW14	Carbon tetrachloride	ND	H	0.30	08/24/2022 12:24	09/28/2022 17:19	21.2	H R
MW14	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 12:24	09/28/2022 17:19	21.2	H R
MW14	Chlorodibromomethane	ND	H	0.43	08/24/2022 12:24	09/28/2022 17:19	21.2	H R
MW15	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 14:13	09/21/2022 19:14	15.2	H R
MW15	Carbon tetrachloride	12	H	0.30	08/23/2022 14:13	09/21/2022 19:14	15.2	H J-
MW16	Trichlorofluoromethane	ND	H	0.36	08/25/2022 12:10	09/21/2022 19:38	13.3	H R
MW16	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 12:10	09/21/2022 19:38	13.3	H R
MW16	Carbon tetrachloride	ND	H	0.30	08/25/2022 12:10	09/21/2022 19:38	13.3	H R
MW16	cis-1,3-Dichloropropene	ND	H *1	0.42	08/25/2022 12:10	09/21/2022 19:38	13.3	H R *1
MW16	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 12:10	09/21/2022 19:38	13.3	H R
MW16	Chlorodibromomethane	ND	H	0.43	08/25/2022 12:10	09/21/2022 19:38	13.3	H R
MW17	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 14:49	09/21/2022 20:03	15.2	H R
MW17	Carbon tetrachloride	0.33	J H	0.30	08/23/2022 14:49	09/21/2022 20:03	15.2	H J-
MW18	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 09:47	09/28/2022 17:44	21.3	H R
MW18	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 09:47	09/28/2022 17:44	21.3	H R
MW18	Carbon tetrachloride	69	H	0.30	08/24/2022 09:47	09/28/2022 17:44	21.3	H J-
MW18	Trichloroethene	61	H	0.26	08/24/2022 09:47	09/28/2022 17:44	21.3	H J-

Sample	Analyte	Result	Flag	MDL	Collection Date	Analysis Date	Days past holding time	Data Qualification
MW18	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 09:47	09/28/2022 17:44	21.3	H R
MW18	Chlorodibromomethane	ND	H	0.43	08/24/2022 09:47	09/28/2022 17:44	21.3	H R
MW19	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW19	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW19	Carbon tetrachloride	ND	H	0.30	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW19	Trichloroethene	ND	H	0.26	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW19	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW19	Chlorodibromomethane	ND	H	0.43	08/24/2022 13:35	09/28/2022 18:08	21.2	H R
MW20	trans-1,2-Dichloroethene	ND	H	20	08/24/2022 14:42	09/28/2022 18:32	21.2	H R
MW20	1,1,1-Trichloroethane	ND	H	20	08/24/2022 14:42	09/28/2022 18:32	21.2	H R
MW20	Carbon tetrachloride	950	H	15	08/24/2022 14:42	09/28/2022 18:32	21.2	H J-
MW20	Trichloroethene	130	H	13	08/24/2022 14:42	09/28/2022 18:32	21.2	H J-
MW20	trans-1,3-Dichloropropene	ND	H	21	08/24/2022 14:42	09/28/2022 18:32	21.2	H R
MW20	Chlorodibromomethane	ND	H	22	08/24/2022 14:42	09/28/2022 18:32	21.2	H R
MW22	Trichlorofluoromethane	ND	H	0.36	08/25/2022 13:15	09/21/2022 20:27	13.3	H R
MW22	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 13:15	09/21/2022 20:27	13.3	H R
MW22	Carbon tetrachloride	9.0	H	0.30	08/25/2022 13:15	09/21/2022 20:27	13.3	H J-
MW22	cis-1,3-Dichloropropene	ND	H *1	0.42	08/25/2022 13:15	09/21/2022 20:27	13.3	H R *1
MW22	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 13:15	09/21/2022 20:27	13.3	H R
MW22	Chlorodibromomethane	ND	H	0.43	08/25/2022 13:15	09/21/2022 20:27	13.3	H R
MW23	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 15:28	09/28/2022 18:57	21.1	H R
MW23	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 15:28	09/28/2022 18:57	21.1	H R
MW23	Carbon tetrachloride	1.0	H	0.30	08/24/2022 15:28	09/28/2022 18:57	21.1	H J-
MW23	Trichloroethene	0.78	J H	0.26	08/24/2022 15:28	09/28/2022 18:57	21.1	H J-
MW23	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 15:28	09/28/2022 18:57	21.1	H R
MW23	Chlorodibromomethane	ND	H	0.43	08/24/2022 15:28	09/28/2022 18:57	21.1	H R
MW24	Trichlorofluoromethane	ND	H *1	1.8	08/26/2022 09:36	10/03/2022 15:29	24.2	H R *1
MW24	1,1,1-Trichloroethane	ND	H *1	2.0	08/26/2022 09:36	10/03/2022 15:29	24.2	H R *1
MW24	Carbon tetrachloride	ND	H *1	1.5	08/26/2022 09:36	10/03/2022 15:29	24.2	H R *1
MW24	cis-1,3-Dichloropropene	ND	H *+ *1	2.1	08/26/2022 09:36	10/03/2022 15:29	24.2	H R *+ *1
MW24	trans-1,3-Dichloropropene	ND	H	2.1	08/26/2022 09:36	10/03/2022 15:29	24.2	H R

Sample	Analyte	Result	Flag	MDL	Collection Date	Analysis Date	Days past holding time	Data Qualification
MW24	Chlorodibromomethane	ND	H	2.2	08/26/2022 09:36	10/03/2022 15:29	24.2	H R
MW25	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 15:43	09/21/2022 20:51	15.2	H R
MW25	Carbon tetrachloride	ND	H	0.30	08/23/2022 15:43	09/21/2022 20:51	15.2	H R
MW25	Trichloroethene	ND	H	0.26	08/23/2022 15:43	09/21/2022 20:51	15.2	H R
MW26	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 11:40	09/21/2022 21:16	14.4	H R
MW26	Carbon tetrachloride	ND	H	0.30	08/24/2022 11:40	09/21/2022 21:16	14.4	H R
MW26	Trichloroethene	ND	H	0.26	08/24/2022 11:40	09/21/2022 21:16	14.4	H R
MW27	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 13:43	09/21/2022 21:40	15.3	H R
MW27	Carbon tetrachloride	51	H	0.30	08/23/2022 13:43	09/21/2022 21:40	15.3	H J-
MW27	Trichloroethene	ND	H	0.26	08/23/2022 13:43	09/21/2022 21:40	15.3	H R
MW28	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 10:18	09/21/2022 22:25	14.5	H R
MW28	Carbon tetrachloride	ND	H	0.30	08/24/2022 10:18	09/21/2022 22:25	14.5	H R
MW28	Trichloroethene	ND	H	0.26	08/24/2022 10:18	09/21/2022 22:25	14.5	H R
MW29	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 13:05	09/21/2022 22:50	15.4	H R
MW29	Carbon tetrachloride	ND	H	0.30	08/23/2022 13:05	09/21/2022 22:50	15.4	H R
MW29	Trichloroethene	ND	H	0.26	08/23/2022 13:05	09/21/2022 22:50	15.4	H R
MW3	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 11:01	09/28/2022 16:06	21.2	H R
MW3	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 11:01	09/28/2022 16:06	21.2	H R
MW3	Carbon tetrachloride	ND	H	0.30	08/24/2022 11:01	09/28/2022 16:06	21.2	H R
MW3	Trichloroethene	0.41	J H	0.26	08/24/2022 11:01	09/28/2022 16:06	21.2	H J-
MW3	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 11:01	09/28/2022 16:06	21.2	H R
MW3	Chlorodibromomethane	ND	H	0.43	08/24/2022 11:01	09/28/2022 16:06	21.2	H R
MW30	1,1,1-Trichloroethane	ND	H *1	0.39	08/24/2022 17:45	10/03/2022 15:05	25.9	H R *1
MW30	Trichloroethene	ND	H *1	0.26	08/24/2022 17:45	10/03/2022 15:05	25.9	H R *1
MW31	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 18:33	09/21/2022 23:15	14.2	H R
MW31	Carbon tetrachloride	ND	H	0.30	08/24/2022 18:33	09/21/2022 23:15	14.2	H R
MW31	Trichloroethene	ND	H	0.26	08/24/2022 18:33	09/21/2022 23:15	14.2	H R
MW4	cis-1,2-Dichloroethene	ND	H	0.35	08/23/2022 12:34	09/21/2022 16:47	15.2	H R
MW4	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 12:34	09/21/2022 16:47	15.2	H R
MW4	Carbon tetrachloride	ND	H	0.30	08/23/2022 12:34	09/21/2022 16:47	15.2	H R
MW4	Trichloroethene	ND	H	0.26	08/23/2022 12:34	09/21/2022 16:47	15.2	H R

Sample	Analyte	Result	Flag	MDL	Collection Date	Analysis Date	Days past holding time	Data Qualification
MW5	Trichlorofluoromethane	ND	H	0.36	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW5	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW5	Carbon tetrachloride	ND	H	0.30	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW5	cis-1,3-Dichloropropene	ND	H	0.42	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW5	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW5	Chlorodibromomethane	ND	H	0.43	08/25/2022 10:09	09/21/2022 17:11	13.3	H R
MW6	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 17:15	10/03/2022 14:40	25.9	H R
MW6	1,1,1-Trichloroethane	ND	H *1	0.39	08/24/2022 17:15	10/03/2022 14:40	25.9	H R *1
MW6	Carbon tetrachloride	ND	H *1	0.30	08/24/2022 17:15	10/03/2022 14:40	25.9	H R *1
MW6	Trichloroethene	ND	H *1	0.26	08/24/2022 17:15	10/03/2022 14:40	25.9	H R *1
MW6	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 17:15	10/03/2022 14:40	25.9	H R
MW6	Chlorodibromomethane	ND	H	0.43	08/24/2022 17:15	10/03/2022 14:40	25.9	H R
MW7	Trichlorofluoromethane	ND	H	0.36	08/25/2022 11:12	09/21/2022 17:36	13.3	H R
MW7	1,1,1-Trichloroethane	ND	H	0.39	08/25/2022 11:12	09/21/2022 17:36	13.3	H R
MW7	Carbon tetrachloride	ND	H	0.30	08/25/2022 11:12	09/21/2022 17:36	13.3	H R
MW7	cis-1,3-Dichloropropene	ND	H *1	0.42	08/25/2022 11:12	09/21/2022 17:36	13.3	H R *1
MW7	trans-1,3-Dichloropropene	ND	H	0.41	08/25/2022 11:12	09/21/2022 17:36	13.3	H R
MW7	Chlorodibromomethane	ND	H	0.43	08/25/2022 11:12	09/21/2022 17:36	13.3	H R
MW8	cis-1,2-Dichloroethene	ND	H	0.35	08/23/2022 16:08	09/21/2022 18:00	15.1	H R
MW8	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 16:08	09/21/2022 18:00	15.1	H R
MW8	Carbon tetrachloride	ND	H	0.30	08/23/2022 16:08	09/21/2022 18:00	15.1	H R
MW8	Trichloroethene	ND	H	0.26	08/23/2022 16:08	09/21/2022 18:00	15.1	H R
MW9	trans-1,2-Dichloroethene	ND	H	0.39	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
MW9	1,1,1-Trichloroethane	ND	H	0.39	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
MW9	Carbon tetrachloride	ND	H	0.30	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
MW9	Trichloroethene	ND	H	0.26	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
MW9	trans-1,3-Dichloropropene	ND	H	0.41	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
MW9	Chlorodibromomethane	ND	H	0.43	08/24/2022 13:08	09/28/2022 16:30	21.1	H R
Trip Blank	1,1,1-Trichloroethane	ND	H	0.39	08/23/2022 00:01	09/22/2022 21:34	16.9	H R
Trip Blank	Carbon tetrachloride	ND	H	0.30	08/23/2022 00:01	09/22/2022 21:34	16.9	H R

Summary

There were an extraordinarily large number of QC problems with this data. The lab report narrative contains more than two pages of explanations of failures to meet QC standards in the method blanks, trip blanks, lab control standards (LCS) and continuing calibration verifications (CCV).

Important analytes TCE and cis 1,2-DCE were detected in the Trip and Method Blanks, in addition to several analytes never present in data from this site.

Samples were reanalyzed for up to 9 analytes in all 32 wells. This reanalysis was performed from 13 to 25 days past the 14-day holding time. Most of this reanalyzed data is unusable.

The results are usable with the added data qualifications noted in this data validation document.

References

EPA 2014. National Functional Guidelines for Superfund Organic Methods Data Review, August.