KEY ENVIRONMENTAL INCORPORATED

October 10, 2025

Transmitted Electronically

Mr. Austin Tweedy
Hydrogeologist
Division of Environmental Response & Revitalization
Ohio EPA – Southeast District Office
2195 Front Street
Logan, Ohio 43138

Re: 2025 Second Quarter Groundwater Monitoring Report
Howmet - Former WearEver Facility
Chillicothe, Ohio

Dear Mr. Tweedy:

Attached, please find the above-referenced groundwater monitoring report for the former WearEver facility located in Chillicothe, Ohio.

If you have any questions or desire additional information, please do not hesitate to call.

Best regards,

Key Environmental, Inc.

Andrew Franze, P.G.
Supervising Geologist

cc: Patrick Cook - Howmet

Attachment

GROUNDWATER MONITORING REPORT
SECOND QUARTER SAMPLING EVENT
MAY 2025

HOWMET FORMER WEAREVER FACILITY
CHILLICOTHE, OHIO
OCTOBER 2025

Prepared for:

HOWMET AEROSPACE INC.
201 Isabella Street
Pittsburgh, Pennsylvania 15212

Prepared by:

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1.0 INTRODUCTION

Historical manufacturing at the Howmet Aerospace Inc. (formerly known as Alcoa Inc. and more recently known as Arconic Inc.) Former WearEver Facility (Site) located in Chillicothe, Ohio has resulted in the presence of volatile organic compounds (VOCs) in subsurface soils and groundwater at the Site. Figure 1 is a location map for the Site and surrounding areas. Remedial investigations have determined that an on-Site VOC groundwater plume extends off-Site to non-potable production wells located approximately 2,000 feet (ft) east-northeast of the Site and operated by a paper mill. The paper mill was sold by the Glatfelter Paper Company, Inc. (Glatfelter) to Pixelle Specialty Solutions (Pixelle) on October 9, 2019, per the Ross County Clerk records. Pixelle recently announced plans to close the paper mill facility. Closure of the paper mill will likely result in shutdown of pumping operations of Pixelle production wells.

The 1998 Decision Document identifies the selected remedy for groundwater based on the Remedial Action Objectives (RAOs) which were:

- *"Control access to affected groundwater, both on-site and off-site, such that unacceptable exposure does not occur, and*
- *Ultimately achieve Maximum Contaminant levels (MCLs) for select volatile organic compounds (VOCs) found in the groundwater on-site."*

To achieve the RAOs, the remedy selected by Ohio EPA for groundwater was a combination of the Source Area soil vapor extraction / air sparging (SVE/AS) and the Limited Action alternatives. The Limited Action alternative includes groundwater monitoring to evaluate the effectiveness of the SVE/AS at the source areas and to monitor both the on-site and off-site plume.

In March of 1999, Alcoa entered into an agreement (Director's Final Findings and Orders) with the Ohio Environmental Protection Agency (Ohio EPA) to perform the remedial actions at the Site, and to monitor the groundwater plume. Although the on-Site remedial actions have improved groundwater quality, the off-Site VOC groundwater plume is expected to persist for many years.

Ohio EPA included contingencies in the selected alternative to address a future situation like the anticipated cessation of pumping of the Pixelle production wells which is a groundwater use modification. Specifically, the 1998 Decision Document states: "*under this alternative, contingencies are provided in the event that operation of any of the industrial wells along the Scioto River changes in such a way that the plume of VOC impacted groundwater changes in size or direction.*" Howmet is currently collaborating with Ohio EPA to implement the contingencies listed in the 1998 Decision Document which include:

- *"Evaluate the proposed groundwater use/change and determine the potential human health and environmental risks (including the risk of contaminating previously uncontaminated groundwater);*
- *Identify alternative responses to the proposed groundwater use/change if determined to pose an unacceptable risk; and*

- *Work with the [potentially downgradient] landowner and Ohio EPA to implement the alternative response that best suits the [potentially downgradient] landowner's needs, minimizes risk, and is most cost-effective."*

The Groundwater Monitoring Plan (GWMP; KEY Environmental, 2012) was updated in March 2012 to document changes to the predominant groundwater flow direction and monitoring trigger data. The GWMP was approved by the Ohio EPA on June 4, 2012.

The Fifth Revision of the GWMP describes the groundwater monitoring activities to be performed at the Site. The Second Quarter 2025 event included those elements of the GWMP listed as "quarterly," including:

1) Monitoring of groundwater flow direction in the plume area and along the southeastern property line;
2) Monitoring groundwater quality on the southeastern Site area and off-Site center line of the VOC plume; and
3) Downloading data from the barometric pressure transducer and transducer data loggers installed in monitoring wells MW-H-I, MW-I-I, and MW-F-I.

In addition to the revisions contained in the March 2012 GWMP, additional monitoring recommendations were made during the course of the Third Five-Year Review conducted in 2015. These recommendations, which were approved by Ohio EPA in a February 3, 2016 response letter, consist of:

- Discontinue sampling of the Hammond Well (unless a southeast shift of groundwater flow direction occurs);
- Discontinue sampling of monitoring wells MW-D-D and MW-H-I; and
- Reduce sampling to annual at monitoring wells MW-D-I, MW-I-I, and MW-G-I.

Appendix A of this report includes Table 1 and Figure 2 of the revised GWMP that provides the schedule for sample collection and analysis, and the locations of the on- and off-Site monitoring wells.

The objectives of the quarterly monitoring events described in the revised GWMP are as follows:

1) Confirm that hydrodynamic control of the existing off-Site VOC groundwater plume is maintained by the Pixelle Collector Wells 17 and 18, located to the east and northeast of the Site, by detecting potential southerly shifting of the plume toward potential groundwater receptors southeast of the Site; and

2) Monitor the sample concentrations of the off-Site plume.

In addition to these objectives, the GWMP includes performing water level measurements in selected wells to monitor the groundwater flow direction and the Groundwater Use Notification Agreements (GWUNAs) placed on the properties surrounding the Site.

The Second Quarter 2025 Sampling Event was completed in May 2025. This report has been prepared to present the results of the monitoring performed under the revised GWMP.

The Ohio EPA provided a letter to Howmet on July 7, 2025 regarding enhanced monitoring in response to the anticipated shutdown of the paper mill. KEY provided a response letter to the Ohio EPA on August 1, 2025 detailing enhanced monitoring that will go into effect during the third quarter monitoring event. The enhanced groundwater monitoring objective in the short-term future is to characterize and evaluate the steady-state conditions during the anticipated cessation of pumping from the paper mill wells. After the groundwater conditions are thoroughly characterized, an appropriate response action can be determined.

2.0 MONITORING ACTIVITIES

On behalf of Howmet, Field and Technical Services, LLC (FTS) conducted the Second Quarter 2025 monitoring activities in accordance with the revised GWMP dated March 2012 and the approved monitoring changes recommended in the Third Five-Year Review. The Second Quarter 2025 sampling event included the following activities:

- Measuring water levels at Site-related monitoring wells and select off-site Pixelle observation wells;
- Retrieving groundwater samples from five wells;
- Downloading data from the barometric pressure transducer and continuous water level recorders maintained within three on-Site wells MW-F-I, MW-H-I, and MW-I-I; and
- Installing Equilibrator® passive diffusion samplers in monitoring wells (after completion of the groundwater sample collection).

During a previous sampling event, FTS installed passive diffusion samplers in the quarterly monitoring wells. The passive samplers were allowed to equilibrate for approximately two months (between March 18, 2025 and May 5, 2025), prior to collection on May 5, 2025. Prior to removing the samplers, water levels were measured in Site monitoring wells. After the water level measurements were completed, the diffusion samplers were extracted from the wells and the contents transferred into pre-preserved 40-milliliter (mL) vials. The samples were submitted under chain of custody protocol to Eurofins Laboratories in Cleveland, Ohio for analysis by USEPA SW-846 Method 8260D.

3.0 MONITORING RESULTS

3.1 WATER LEVEL MEASUREMENTS

Water levels were measured in 18 Site-related monitoring wells and seven Pixelle observation wells during the Second Quarter 2025 Monitoring Event. The water level measurements and piezometric surface elevations for the Second Quarter 2025 are provided in Table 1. The May 2025 water level data were used to calculate groundwater elevations, which were used to develop a piezometric surface elevation contour map for the intermediate zone (Figures 2 and 3). Figure 2 provides a Site piezometric surface map, and Figure 3 provides an expanded piezometric surface map that includes select Pixelle observation wells. The Pixelle Collector Wells 17 and 18 were operating at the time of the monitoring event.

Pixelle has operated several collector wells around the Site that influence groundwater flow beneath the Site. Collector Wells 17 and 18 are located approximately 2,000 ft east and northeast of the Site, respectively. Historically, Collector Well 18 provided the greatest influence on groundwater flow direction, which was typically to the northeast. However, as noted in the 2020 Five-Year Review Report[1], it was observed in the second quarter of 2020 that the groundwater flow direction had shifted to the southeast. Pixelle was contacted to determine if they had well maintenance issues or had made changes to their pumping operations. Subsequent data provided by Pixelle showed apparent reduced production from their collector wells prior to the second quarter of 2020. Groundwater flow data at the Site through the third quarter of 2021 showed the flow was generally to the southeast, and the horizontal hydraulic gradient was less than half of the typical historical values. However, since then, the past four years of potentiometric data indicate that the horizontal groundwater flow direction at the Site has shifted back toward the east-northeast. There is also an apparent east-northeastern flow direction at, or immediately beyond, the eastern property boundary during recent monitoring events. Pixelle redeveloped Collector Well 17 in October 2021, which improved Collector Well efficiency. Pixelle also completed well maintenance work in March 2024 at both Collector Wells 17 and 18. The May 2025 expanded gauging data included in Figure 3 shows that groundwater is captured by Collector Wells 17 and 18. The horizontal hydraulic gradient beneath the property (May 2025) was approximately 0.0013 ft/ft and becomes steeper as groundwater approaches the pumping wells.

In addition to measured water levels, daily water levels were recorded between March 18, 2025 and May 5, 2025 at on-Site monitoring wells equipped with pressure transducers/data recorders (MW-H-I, MW-F-I, and MW-I-I). Transducer data was downloaded, and the resulting water level data are illustrated on Figure 4. Historically and under typical conditions, MW-H-I groundwater elevations are greater than groundwater elevations at MW-I-I and MW-F-I groundwater elevations. The groundwater elevation data in Figure 4 depict short-term changes in groundwater flow directions.

Water levels at MW-H-I were greater than water levels at MW-I-I for entire second quarter monitoring period (March 18, 2025 – May 5, 2025) and MW-F-I for 92% of the second quarter monitoring period. The transducer data indicated that groundwater flow direction is primarily to

[1] 2021, Key Environmental Inc., 2020 Five Year Review Report, Howmet Former WearEver Site, Chillicothe, Ohio.

the east-northeast. Since the fourth quarter 2021, the groundwater flow has been primarily to the east-northeast (in the vicinity of MW-H-I, MW-I-I, and MW-F-I). Gauging data indicates that groundwater flow shifts more to the northeast at and beyond the property boundary toward Collector Wells 17 and 18.

Closure of the paper mill will likely result in shutdown of pumping operations of Pixelle production wells. Previous groundwater monitoring periods during low pumping or no pumping conditions at Collector Wells 17 and 18 indicate that groundwater beneath the Site will likely flow east-southeast toward the Scioto River and will be characterized by relatively low hydraulic gradients and low groundwater velocity. Enhanced monitoring and the installation of additional wells will be implemented to evaluate changes to the conceptual site model in the absence of Pixelle pumping well operations.

3.2 GROUNDWATER SAMPLE RESULTS

The quarterly sampling locations included in this second quarter sampling event for the Groundwater Plume Monitoring Network are provided in Table 1 of the GWMP (Appendix A).

The analytical data were evaluated in accordance with the National Functional Guidelines for Organic Data Review (USEPA, 2020). No major data validation issues were identified. The laboratory report and data validation are provided in Appendix B. The following subsection provides a summary of the groundwater sample analytical results collected during the Second Quarter 2025.

3.2.1 Quarterly Groundwater Plume Monitoring Network

The quarterly Plume Monitoring Well Network consists of wells MW-C-I, MW-D-S, MW-I-S, MW-OS-1-I, and MW-OS-2. Table 2, and the following, provides a summary of the second quarter sampling event VOC results from the quarterly monitoring wells.

- The second quarter sample collected from on-Site monitoring well MW-D-S had constituent of interest (COI) detections of trichloroethylene (TCE) at 100 J micrograms per liter (µg/l), cis-1,2-dichloroethylene (cis-DCE) at 15 µg/l, and trans-1,2dichloroethylene (trans-DCE) at 1.1 µg/l. TCE detected in the MW-D-S sample is the only COI that exceeds the federal Maximum Contaminant Limit (MCL).
- The sample collected from on-Site monitoring well MW-I-S has a detection of TCE at 2.3 µg/l. Figure 6 is a trend chart depicting the fluctuating TCE concentrations at perimeter well MW-I-S. No COI exceeded MCLs during the second quarter event.
- The sample collected from on-Site monitoring point MW-C-I had detections of the following constituents: 1,1-dichloroethylene (1,1-DCE) at 110 µg/l, cis-DCE at 2,500 µg/l, trans-DCE at 19 µg/l, TCE at 12 µg/l, and vinyl chloride at 190 µg/l. The detections of 1,1-DCE, cis-DCE, trans-DCE, and vinyl chloride

exceeded their respective MCLs. The second quarter chlorinated VOC concentrations at MW-C-I fall within the range of historical concentrations, which have been declining overall since 2013. Figure 7 illustrates the cis-DCE and vinyl chloride concentration trends at MW-C-I.

- The sample collected from off-Site monitoring well MW-OS-1-I has detections of 1,1-DCE at 40 µg/l, cis-DCE at 1,800 µg/l, trans-DCE at 8.4 µg/l, TCE at 39 µg/l, and vinyl chloride at 210 µg/l. The detections of 1,1-DCE, cis-DCE, TCE, and vinyl chloride exceeded their respective MCLs. Figure 8 depicts the trends of cis-DCE and vinyl chloride in monitoring well MW-OS-1-I. Although the cis-DCE and vinyl chloride concentrations fluctuate, the chart shows an overall downward trend.
- No Site-related COIs were detected at monitoring point MW-OS-2, which is located to the east of the Site.

Relationships between water levels and VOC concentrations for the period of 2010 to 2015 were examined during the development of the 2015 Five-Year Review Report. During that five-year window, water levels and total chlorinated VOC concentrations fluctuated seasonally, but VOC concentrations declined overall. During that period, total chlorinated VOC concentrations at MW-OS-1-I typically decreased with a seasonal decline in groundwater elevation (indicating positive correlation between water levels and VOC concentrations), whereas the opposite is typically true at MW-D-S (indicating negative correlation between water levels and VOC concentrations).

Sample results for the second quarter 2025 sampling event indicated detections of acetone in three samples, as indicated on Table 2. In accordance with Ohio EPA's letter dated November 12, 2019, KEY investigated the occurrence of acetone detections in groundwater samples from quarterly monitoring wells MW-D-S, MW-I-S, and MW-OS-2 from the previous five groundwater monitoring reports (from the third quarter 2018 to the third quarter 2019). It was determined that MW-I-S was the only monitoring well with consistent occurrences of acetone during that time period, as MW-D-S had two sampling events where acetone was below detection limits (first quarter 2019 and fourth quarter 2018), and MW-OS-2 had one sampling event where acetone was below detection limits (second quarter 2019).

Acetone is widely recognized as a common laboratory artifact because it is used to clean glassware and other laboratory equipment; however, acetone has not typically been detected in the method (lab) blanks during the sampling events. Acetone was identified as a Site constituent of interest in the 1996 Remedial Investigation (RI) Report (Marsh and ICF Kaiser, 1996) because the maximum concentration of 38,000 µg/l exceeded the EPA Region 3 Tapwater RBC of 37,000 µg/l. The recent concentrations of acetone are approximately three orders of magnitude below the maximum concentration noted in the RI (38,000 µg/l), as well as the EPA Residential Tapwater Regional Screening Level (14,000 µg/l). Therefore, although the recurring detections of acetone cannot conclusively be attributed to the laboratory contamination, KEY maintains that acetone is not considered a Site constituent of interest based on comparison of the reported concentrations to the EPA Residential Tapwater Regional Screening Level (RSL) for acetone.

4.0 EVALUATION

Section 6.3 of the approved GWMP presents specific criteria used to evaluate the monitoring data. Below are the criteria and the evaluation results from the second quarter 2025 monitoring activities.

4.1 QUARTERLY TRIGGER CRITERIA

1. **Daily Water Levels**: Daily water level elevation from MW-H-I, MW-I-I and MW-F-I.

   – The water level in MW-H-I should have a higher average elevation than both MW-I-I and MW-F-I.

   Evaluation result: Met.

   Figure 4 (hydrograph) depicts the elevation of the water table surface for the three wells outfitted with pressure transducers/data loggers. Average groundwater elevations in MW-H-I, MW-I-I, and MW-F-I were 589.65 ft, 588.83 ft, and 588.76 ft, respectively, for the March 18, 2025 to May 5, 2025 monitoring period. The transducer data indicated that MW-H-I water levels were greater than MW-I-I and MW-F-I for the monitoring period.

2. **Manual Water Levels**: The groundwater flow direction as determined from the manual measurements should not consistently flow in an easterly or southeasterly direction for two consecutive quarters along the eastern boundary of the Site.

   Evaluation Result: Met.

   The groundwater flow direction along the eastern boundary of the Site was toward the northeast during the fourth quarter event. An easterly or southeasterly flow direction along the eastern boundary of the Site was not observed for two consecutive quarters.

3. **Sample Results:** The following should be true:

- Site-related VOC concentrations meet the following criteria in all quarterly water quality samples from wells MW-I-S and MW-OS-2.

  – MCL not exceeded at the same well for two consecutive quarterly events; and,
  – None of these wells may exceed five times MCL in any one quarter.

  Evaluation Result: Met.

Table 2 includes water quality data for the above-listed monitoring points.

- No site-related VOC constituents exceeded MCLs for MW-I-S and MW-OS-2 during the first quarter 2025 and second quarter 2025 sample events.

5.0 SUMMARY & RECOMMENDATIONS

All of the quarterly evaluation criteria were met during this monitoring period. As noted in Five-Year Review (FYR) reports for the Site going back to 2010, occasional variations in pumping rates at collector wells operated by Pixelle Specialty Solutions can temporarily modify groundwater flow direction beneath the Site area. A shift in groundwater flow direction to the southeast occurred from 2008 to 2013 as described in the 2010 and 2015 FYR reports. As described in the 2020 FYR report, it occurred again in 2020; however, since the fourth quarter 2021 monitoring event, the groundwater flow direction at the Site shifted back more to the east-northeast. Expanded potentiometric surface maps that include Pixelle observation wells show that groundwater is captured by Collector Wells 17 and 18 which were operational during this monitoring event. The groundwater flow direction gradually shifts more to the northeast at and beyond the eastern boundary of the Site.

The residences located southeast of the Site are connected to the municipal water supply, and despite the occasional transient southeast groundwater flow conditions, the water quality trigger criteria associated with the groundwater plume monitoring well network are consistently met. The concentrations of VOCs observed in groundwater samples collected from wells located near the southeastern property boundary that are routinely sampled per the GWMP continue to show an overall declining trend over time.

Several on-Site and off-Site wells located within the center of the plume near the northeastern property boundary (away from domestic wells located to the southeast) continue to have VOCs at concentrations that exceed MCLs. Trend graphs for these wells show concentrations continue to attenuate over time as anticipated by the selected remedy.

The sampling and gauging frequencies described in the GWMP (as described in Table 1 of Appendix A) will continue to be implemented. In addition to the sampling frequencies described in the GWMP, enhanced quarterly sampling will be completed starting with the third quarterly monitoring event at wells MW-D-I, MW-D D, MW-I-I, MW-G-S, MW-G-I, MW-G-D, and MW-OS-3. Howmet is also working with Ohio EPA to install additional monitoring wells to the east-southeast of the Site. With the anticipated cessation of Pixelle pumping wells, the groundwater flow direction, hydraulic gradients, and water quality data will continue to be closely characterized and evaluated. After the non-pumping steady state groundwater conditions are thoroughly characterized, an appropriate response action can be determined.

TABLES

TABLE 1
GROUNDWATER MONITORING SUMMARY
SECOND QUARTER 2025
HOWMET FORMER WEAREVER SITE
CHILLICOTHE, OH

Well No.	Elevation (TOC)	Total Depth	Depth to Water	Groundwater Elevation	Sample Number	Sample Collection Date	Sample Time
Up Gradient							
MW-E-I	619.29	62.21	27.01	592.28	--	--	--
Drum Storage							
MW-DS-I	612.94	60.20	21.31	591.63	--	--	--
Draw Tank							
MW-DT-I	615.24	62.53	24.05	591.19	--	--	--
Building Perimeter							
MW-BL-I	617.45	62.73	26.33	591.12	--	--	--
MW-H-I	611.40	60.55	20.32	591.08	--	--	--
Property Line Perimeter							
MW-A-I	616.06	60.09	24.05	592.01	--	--	--
MW-B-I	613.30	62.50	22.02	591.28	--	--	--
MW-C-S	611.53	35.24	20.60	590.93	--	--	--
MW-C-I	611.64	62.37	20.81	590.83	MW-C-I	5/5/2025	1020
MW-F-I	621.41	62.33	31.02	590.39	--	--	--
MW-D-S	614.77	38.09	24.41	590.36	MW-D-S	5/5/2025	1110
MW-D-I	614.90	62.29	24.61	590.29	--	--	--
MW-I-S	610.47	33.23	20.12	590.35	MW-I-S	5/5/2025	1200
MW-I-I	610.18	61.81	19.65	590.53	--	--	--
MW-G-I	610.01	60.10	19.04	590.97	--	--	--
Off Site Wells							
MW-OS-1-I	610.33	61.79	20.01	590.32	MW-OS-1-I, M-99	5/5/2025	1250
MW-OS-2	615.31	51.89	25.81	589.50	MW-OS-2	5/5/2025	1315
MW-OS-3	612.10	52.26	22.40	589.70	--	--	--
Pixelle Wells							
OW-13	619.54	NM	39.54	580.00	--	--	--
OW-14	614.08	79.20	24.13	589.95	--	--	--
TB-1	617.70	92.86	58.26	559.44	--	--	--
OW-17	606.24	79.69	29.95	576.29	--	--	--
OW-18	619.84	80.01	41.25	578.59	--	--	--
OW-74	619.41	92.91	29.21	590.20	--	--	--
OW-20	605.60	39.80	13.43	592.17	--	--	--

Notes
Updated elevation TOC data collected on September 24, 2021 and March 20, 2023 by DLZ Ohio, inc.
Pixelle observation well survey data obtained from Pixelle.
Elevation TOC data provided in reference to NGVD29.

TABLE 2
SUMMARY OF VOC DETECTIONS
QUARTERLY GROUNDWATER PLUME MONITORING NETWORK
SECOND QUARTER 2025
HOWMET FORMER WEAREVER SITE
CHILLICOTHE, OH

Sample ID		Maximum Contaminant Levels (MCLs)	MW-C-I MW-C-I 5/5/2025	MW-D-S MW-D-S 5/5/2025	MW-I-S MW-I-S 5/5/2025	MW-OS-1-I MW-OS-1-I 5/5/2025	MW-OS-1-I M-99 5/5/2025	MW-OS-02 MW-OS-2 5/5/2025
Monitoring Location			**MW-C-I**	**MW-D-S**	**MW-I-S**	**MW-OS-1-I**	**MW-OS-1-I**	**MW-OS-02**
CONSTITUENT	**UNITS**							
1,1-Dichloroethylene	ug/l	7	**110**	0.49 U	0.49 U	**40**	**38**	0.49 U
Acetone	ug/l	--	**150**	**6.1 J**	**8.2 J**	27 U	5.4 U	5.4 U
cis-1,2-Dichloroethylene	ug/l	70	**2500**	**15**	0.46 U	**1800**	**1700**	0.46 U
trans-1,2-Dichloroethylene	ug/l	100	**19**	**1.1**	0.51 U	**8.4**	**8.3**	0.51 U
Trichloroethylene	ug/l	5	**12**	**100 J**	**2.3**	**39**	**40**	0.44 U
Vinyl chloride	ug/l	2	**190**	0.45 U	0.45 U	**210**	**200**	0.45 U

Notes:

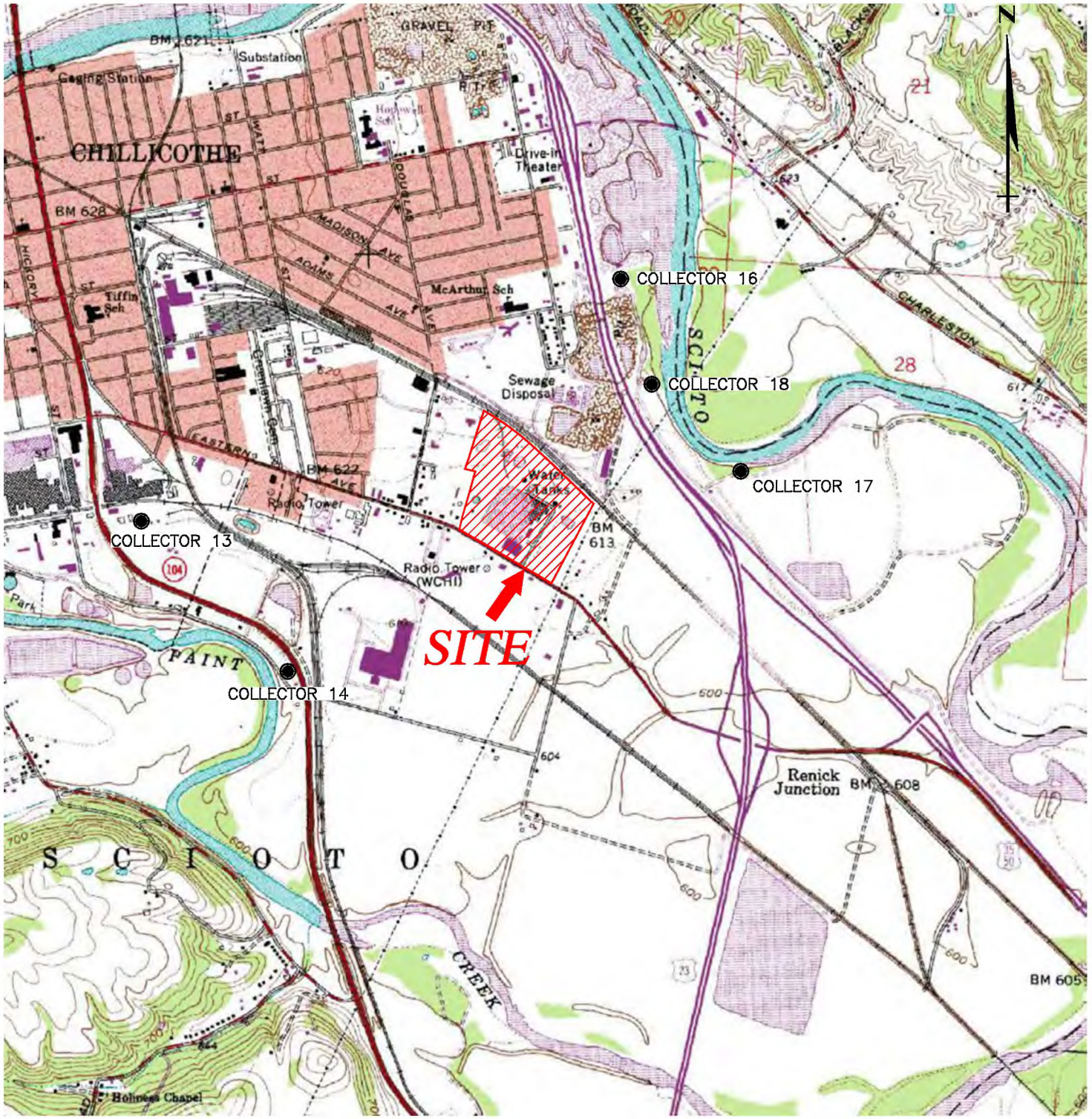
U = constituent not detected at the reported concentration

J = estimated concentration

Bold = constituent detected

Highlighted - constituent exceeds MCLs

FIGURES



QUADRANGLE LOCATION

LEGEND

PAPER COMPANY COLLECTOR WELL

HOWMET AEROSPACE, INC.

DRWN: SCC	DATE: 05/12/25	KEY ENVIRONMENTAL INCORPORATED
CHKD: ECL	DATE: 05/12/25	
APPD: AEF	DATE: 05/12/25	
SCALE:	AS SHOWN	

FORMER WEAREVER FACILITY
CHILLICOTHE, OH

REFERENCE: USGS NORTH AMERICAN DATUM 1983 / UTM ZONE 17N: CHILLICOTHE, OH, UNITED STATES 7/1/1992

ISSUE DATE:

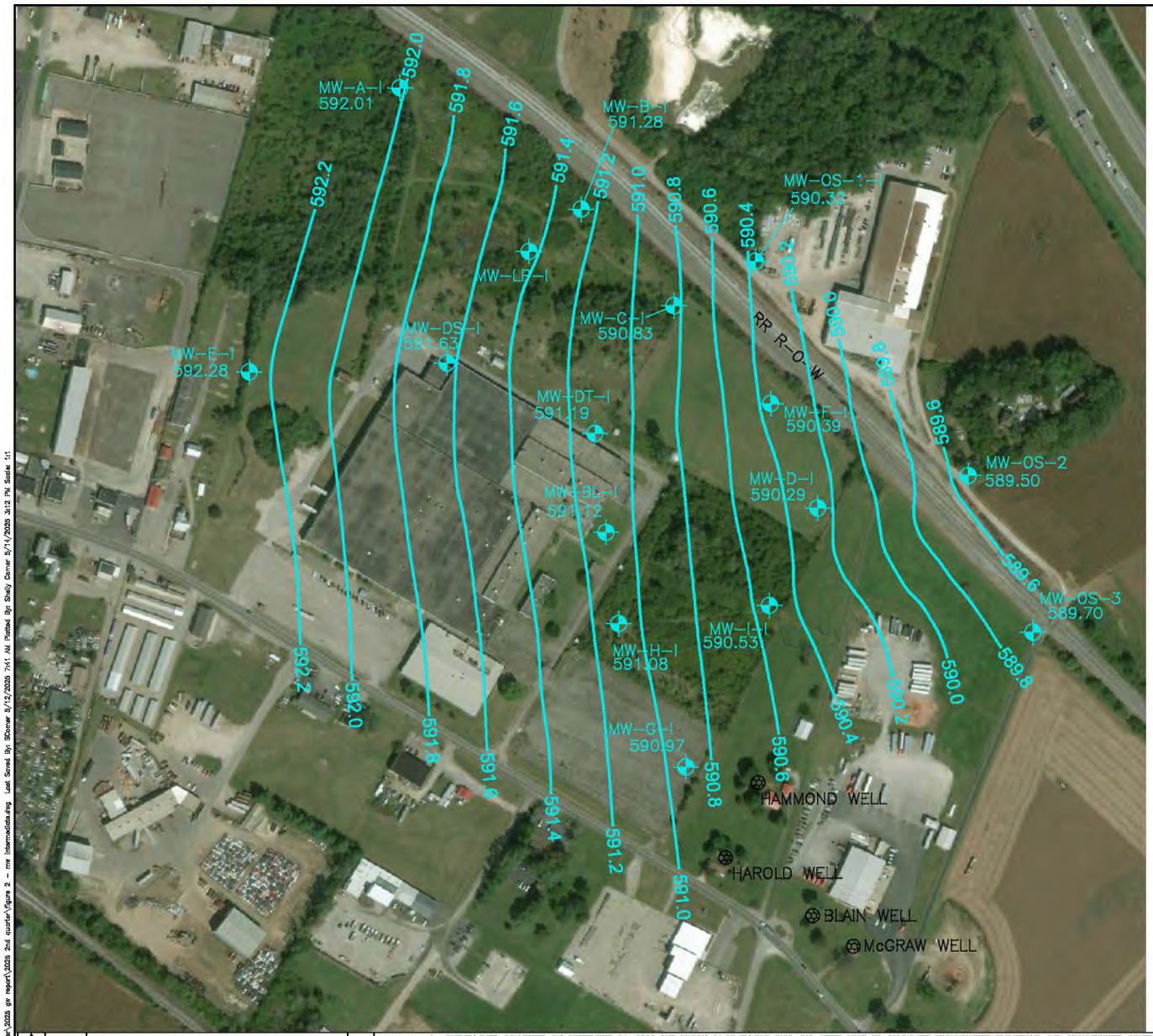
KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

SITE TOPOGRAPHIC LOCATION

PROJECT NO: 24-828

FIGURE 1

y:\dcoa-wearever\2025 gw report\2025 2nd quarter\figure 1 - site location map.dwg Last Saved By: SCorner 5/12/2025 7:25 AM Plotted By: Shelby Corner 5/12/2025 7:28 AM Scale: 1:1



REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE:
1. SURVEY DATA COLLECTED ON SEPTEMBER 24, 2021 AND MARCH 21,23 BY DLZ OHIO, INC. WERE USED TO CALCULATE GROUNDWATER ELEVATIONS AND GROUNDWATER CONTOURS. SURVEY RESULTS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011) AND NGVD29 VERTICAL DATUM. THE DATA ORIGINALLY PROVIDED IN NAVD88 VERTICAL DATUM WAS CONVERTED TO NGVD29 FOR COMPARABILITY WITH RI SURVEY DATA.
2. AERIAL OBTAINED FROM GOOGLE EARTH.

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

HOWMET AEROSPACE, INC.

DRWN: SCC	DATE: 05/12/25
CHKD: ECL	DATE: 05/12/25
APPD: AEF	DATE: 10/02/25
SCALE:	1" = 300'

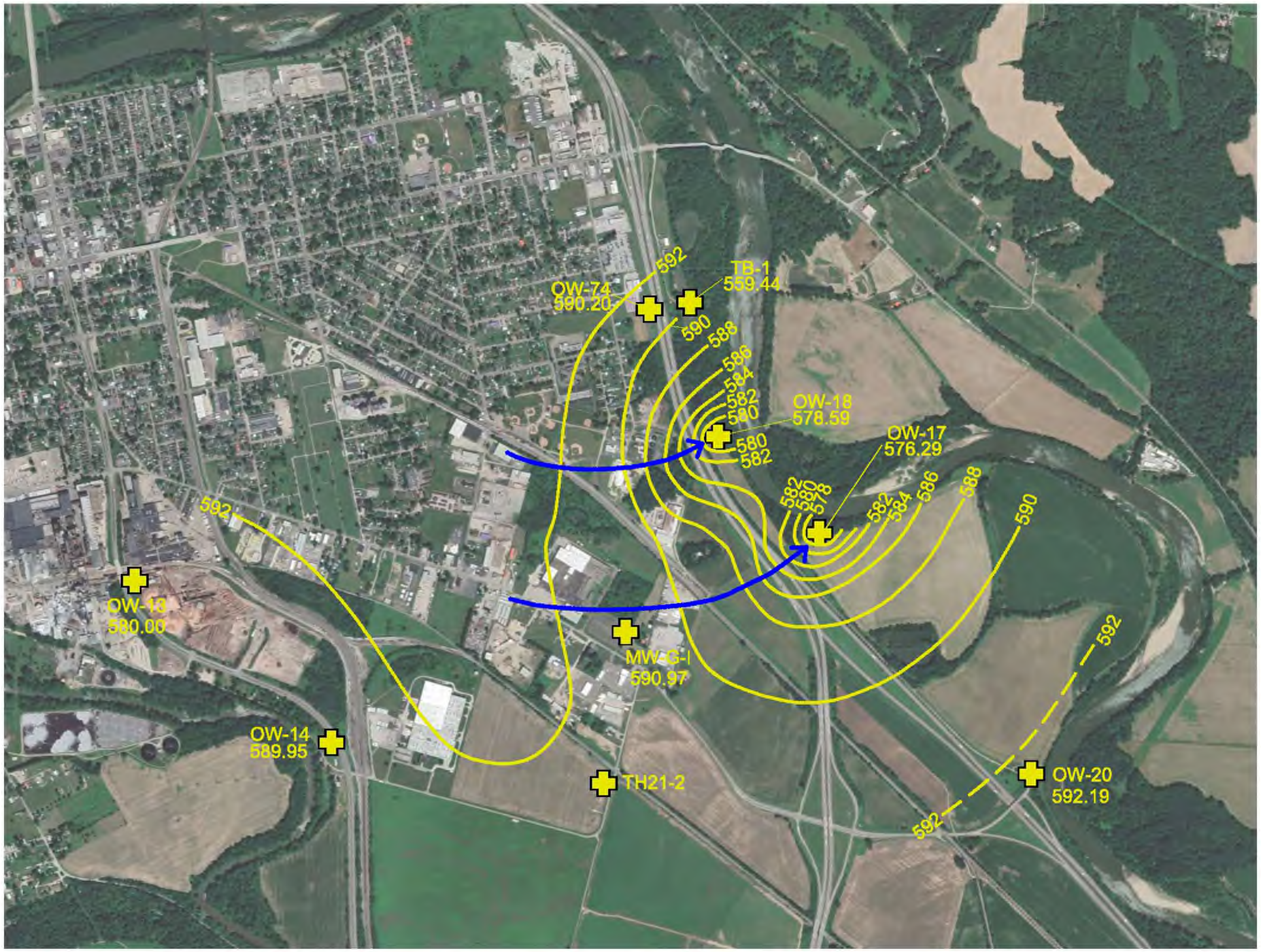
KEY ENVIRONMENTAL INCORPORATED

HOWMET FORMER WEAREVER FACILITY
CHILLICOTHE, OHIO

PIEZOMETER SURFACE OF INTERMEDIATE AQUIFER ZONE
MAY 5, 2025

PROJECT No: 25-048

FIGURE 2



LEGEND

559.44 — PIXELLE OBSERVATION WELL & GROUNDWATER ELEVATION

2 FT INFERRED GW CONTOURS

FLOW PATH

NOTE:
TB-1 NOT USED TO GENERATE CONTOURS.

0 1500 3000 FEET

HOWMET AEROSPACE, INC.

DRWN: SCC	DATE: 05/12/25
CHKD: ECL	DATE: 05/12/25
APPD: AEF	DATE: 10/02/25
SCALE:	1" = 1500'

KEY ENVIRONMENTAL INCORPORATED

HOWMET FORMER WEAREVER FACILITY
CHILLICOTHE, OHIO

EXPANDED PIEZOMETRIC SURFACE OF INTERMEDIATE AQUIFER ZONE
MAY 5, 2025

PROJECT NO: 25-046

FIGURE 3

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: 1. APPROXIMATE LOCATIONS OF PIXELLE COLLECTOR WELLS AND OBSERVATION WELLS OBTAINED FROM 2020 ANNUAL REPORT –COLLECTOR WELL PERFORMANCE AND WATER LEVEL MONITORING (RAINNY COLLECTOR WELLS, FEBRUARY 9, 2021)
2. AERIAL OBTAINED FROM GOOGLE EARTH

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

y:\alcoa-wearever\2025 gw report\2025 2nd quarter\figure 3 – expanded piez intermediate.dwg Last Saved By: SComer 5/14/2025 2:53 PM Plotted By: Shelly Comer 5/14/2025 3:13 PM Scale: 1:1

Figure 4
Hydrograph - Groundwater Level Recorders
October 12, 2012 - May 5, 2025

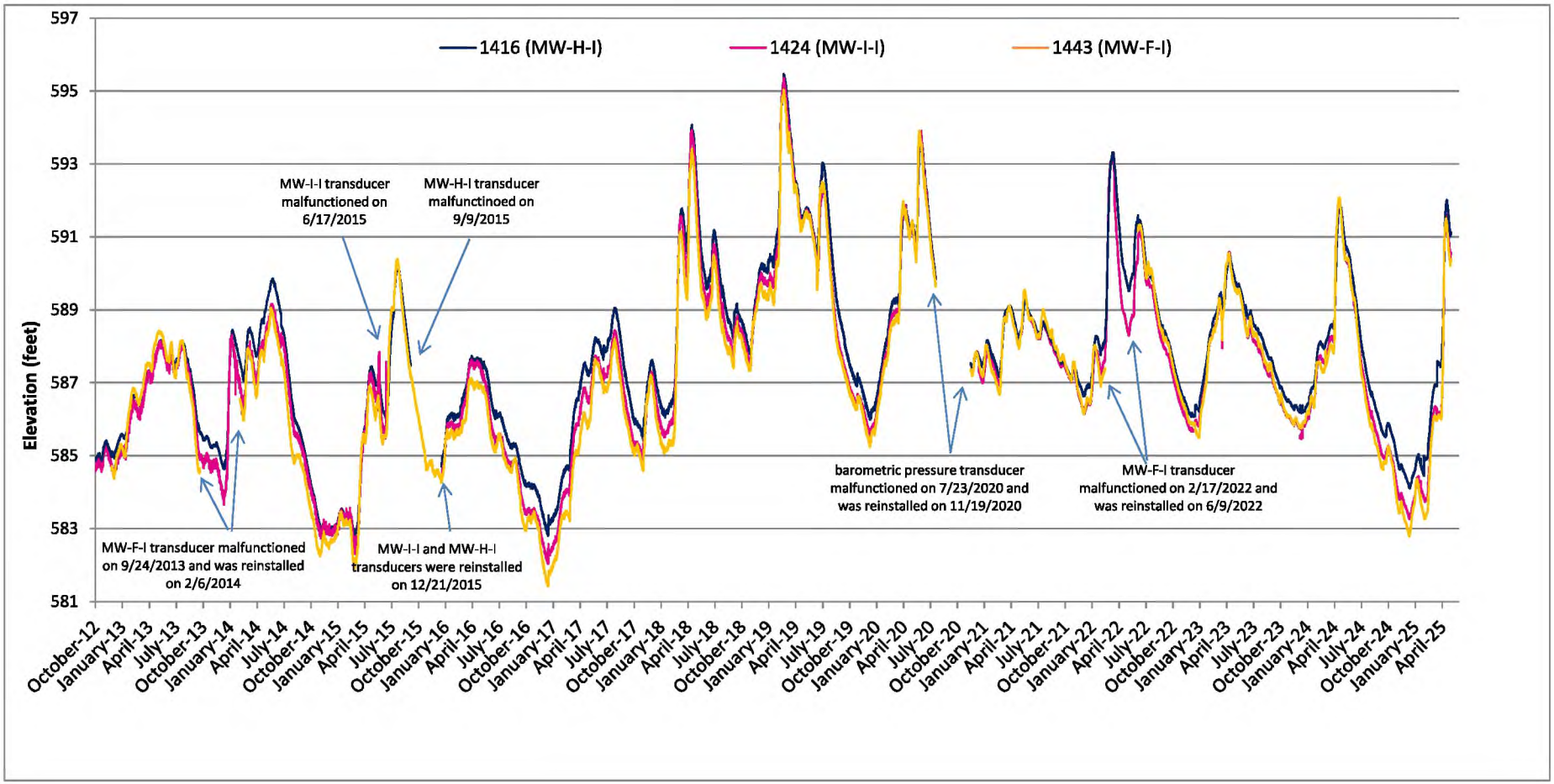


Figure 5
MW-D-S TCE Concentration vs Time

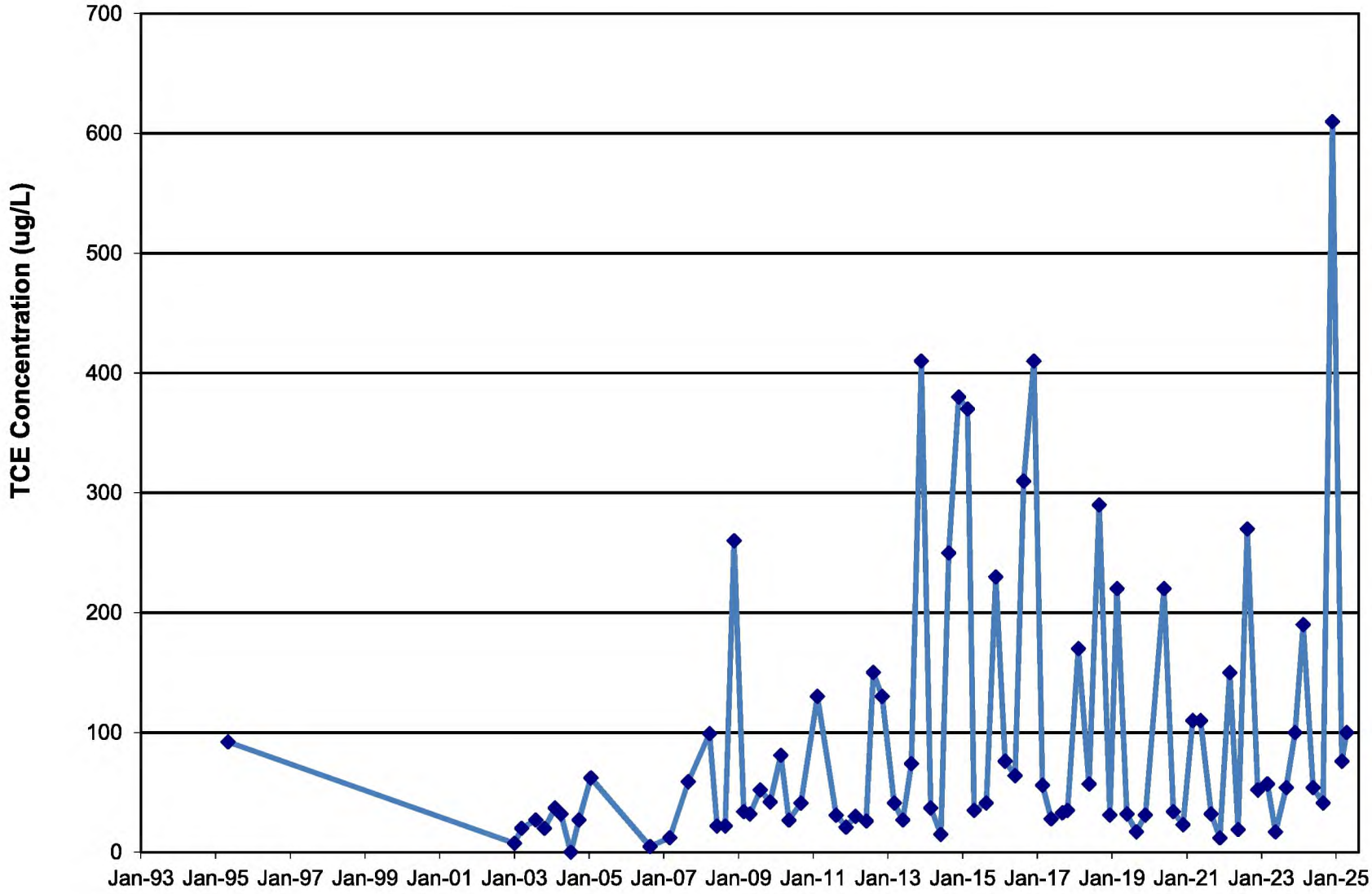


Figure 6
MW-I-S TCE Concentration vs Time

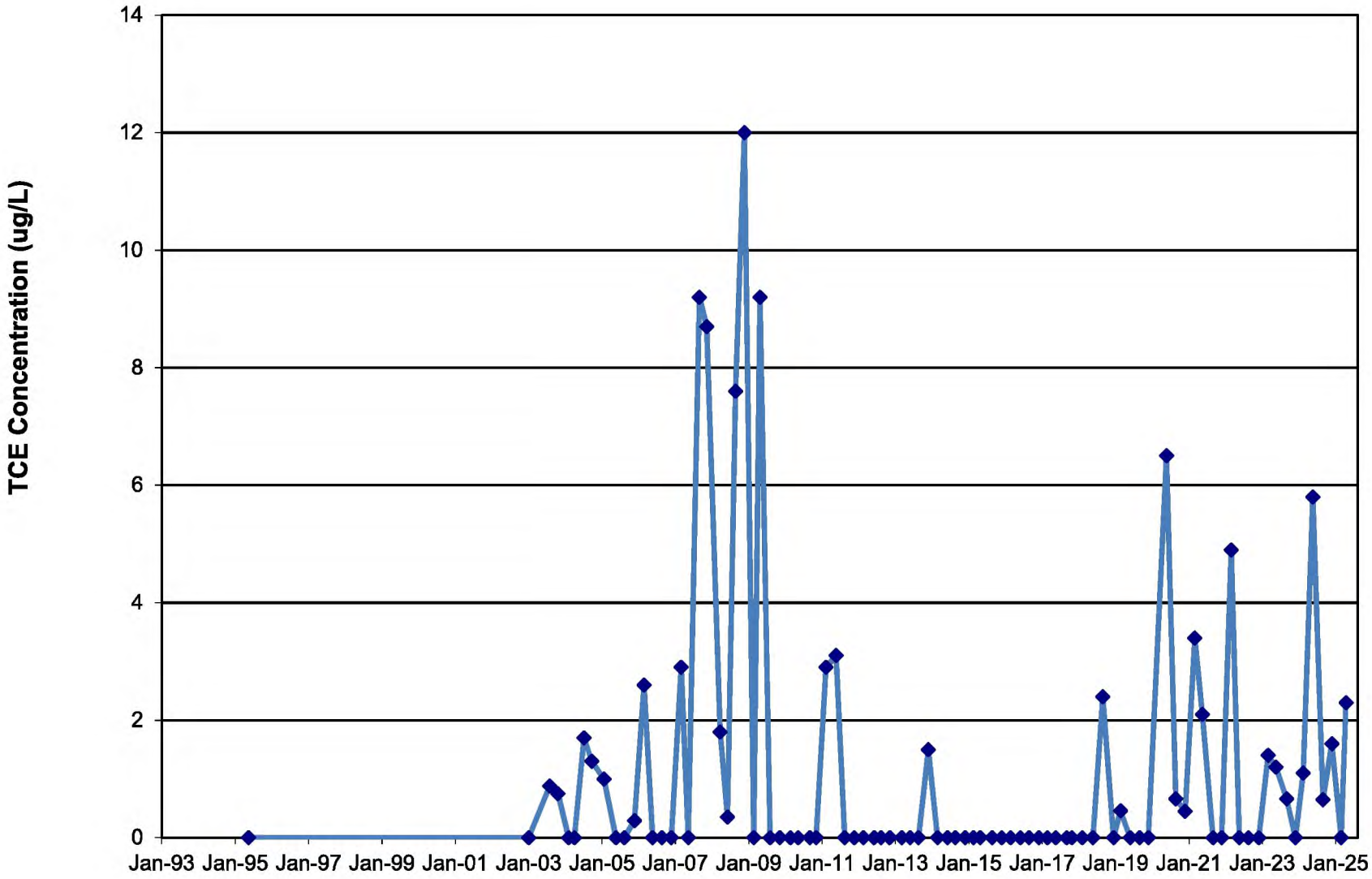


Figure 7
MW-C-I Cis-1,2-DCE and Vinyl Chloride Concentration vs Time

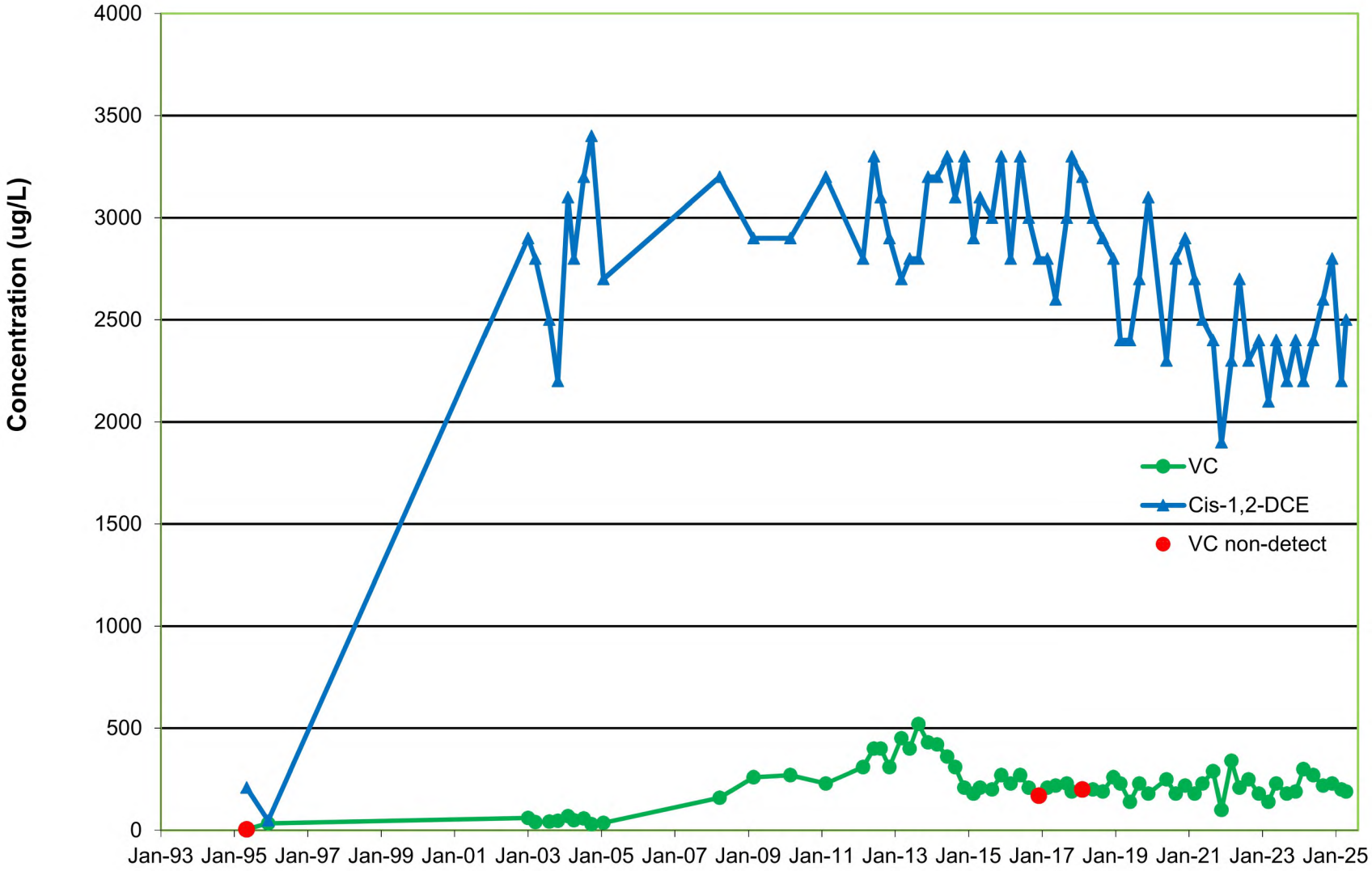
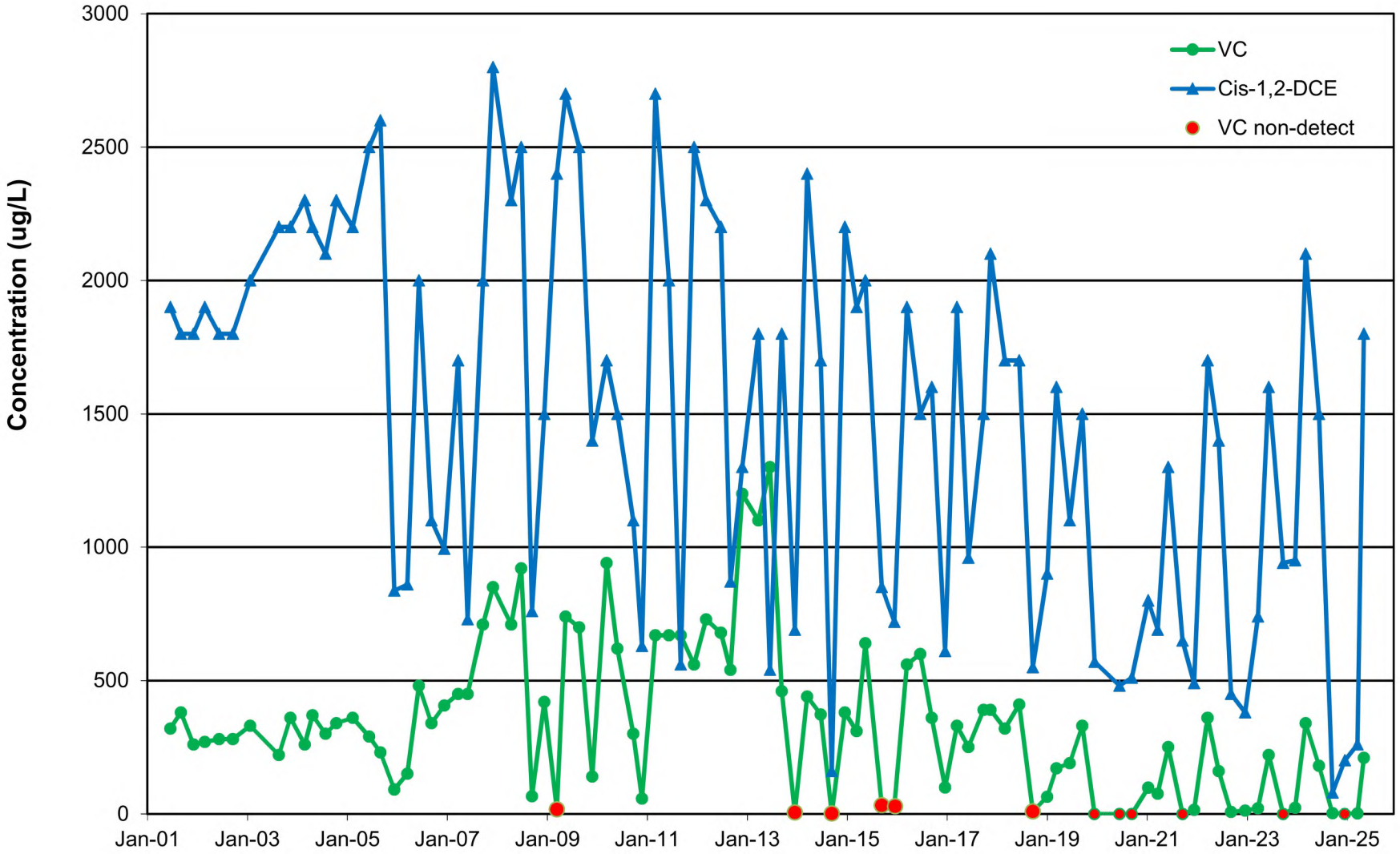


Figure 8
MW-OS-1-I Cis-1,2-DCE and Vinyl Chloride Concentration vs Time



APPENDIX A

Figure 2 and Table 1 from Groundwater Monitoring Plan

APPENDIX A

Figure 2 and Table 1 from Groundwater Monitoring Plan

N

LEGEND

- RESIDENTIAL MONITORING WELL
- HOWMET WEAREVER FACILITY MONITORING WELL
- INDUSTRIAL WATER SUPPLY WELL
- QUARTERLY SAMPLING LOCATION
- SEMIANNUAL SAMPLING LOCATION
- RESIDUAL SOURCE AREA (ANNUAL) SAMPLING LOCATION

0 600 1200
FEET

NOTE:
BASEMAP AND WELL LOCATIONS ADAPTED FROM DWG NO. 894030-B2, IT CORPORATION, 6/27/00.

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE:

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

HOWMET AEROSPACE INC.

DRWN: SCC	DATE: 12/31/20
CHKD: TDS	DATE: 12/31/20
APPD: TDS	DATE: 01/29/21
SCALE:	AS SHOWN

KEY ENVIRONMENTAL INCORPORATED

HOWMET FORMER WEAREVER FACILITY
CHILLICOTHE, OHIO

LOCATION OF ONSITE AND OFFSITE MONITORING POINTS

PROJECT NO: 20-034

APPENDIX A

TABLE 1
GROUNDWATER MONITORING SUMMARY

	QUARTERLY			SEMIANNUAL		ANNUAL	
	(MARCH, JUNE, SEPTEMBER, DECEMBER)			IN ADDITION TO QUARTERLY MONITORING (MARCH, SEPTEMBER)		IN ADDITION TO QUARTERLY AND SEMIANNUAL MONITORING (MARCH)	
MONITORING WELL NO.	DOWNLOAD AUTOMATED GROUNDWATER LEVELS	GROUNDWATER LEVELS FOR FLOW DIRECTION, INTERMEDIATE ZONE	GROUNDWATER SAMPLING FOR PLUME LOCATION (VOCS)[1]	GROUNDWATER LEVELS FOR FLOW DIRECTION, ALL ZONES	GROUNDWATER SAMPLING FOR PLUME LOCATION (VOCS)[1]	OBTAIN FLOW RATES FROM CHILLICOTHE PAPER INDUSTRIAL WELLS[2]	GROUNDWATER SAMPLING FOR REMEDIAL SOURCE AREA MONITORING (VOCS)[1]
Up Gradient							
MW-BG-S							
MW-E-S				X			
MW-E-I		X					
MW-E-D				X			
Sludge Pit							
MW-SP-S							
MW-SP-I							
MW-SP-D							
Drum Storage							
MW-DS-S				X			
MW-DS-I		X					X
MW-DS-D							
Draw Tank							
MW-DT-S				X			X
MW-DT-I		X					
MW-DT-D				X			
Leach Pit							
MW-LP-S							
MW-LP-I							X
MW-LP-D							
Building Perimeter							
MW-1S							X
MW-AS2-S							X
MW-AS3-S							X
MW-AS4-S							X
MW-AS5-S							X
MW-BL-S				X			X
MW-BL-I		X					
MW-BL-D				X			
MW-GA-S							X
MW-H-I	X	X			*		

TABLE 1
GROUNDWATER MONITORING SUMMARY

	QUARTERLY			SEMIANNUAL		ANNUAL	
	(MARCH, JUNE, SEPTEMBER, DECEMBER)			IN ADDITION TO QUARTERLY MONITORING (MARCH, SEPTEMBER)		IN ADDITION TO QUARTERLY AND SEMIANNUAL MONITORING (MARCH)	
MONITORING WELL NO.	DOWNLOAD AUTOMATED GROUNDWATER LEVELS	GROUNDWATER LEVELS FOR FLOW DIRECTION, INTERMEDIATE ZONE	GROUNDWATER SAMPLING FOR PLUME LOCATION (VOCS)[1]	GROUNDWATER LEVELS FOR FLOW DIRECTION, ALL ZONES	GROUNDWATER SAMPLING FOR PLUME LOCATION (VOCS)[1]	OBTAIN FLOW RATES FROM CHILLICOTHE PAPER INDUSTRIAL WELLS[2]	GROUNDWATER SAMPLING FOR REMEDIAL SOURCE AREA MONITORING (VOCS)[1]
Property Line Perimeter							
MW-2D							
MW-5				X			X
MW-A-I		X					
MW-A-S				X			
MW-B-I		X					X
MW-B-D				X			
MW-C-S				X			X
MW-C-I		X	X				
MW-C-D				X			
MW-F-S				X			X
MW-F-I	X	X					X
MW-F-D				X			
MW-D-S		X	X				
MW-D-I		X					X
MW-D-D				X	*		
MW-I-S		X	X				
MW-I-I	X	X					X
MW-G-S				X	X		
MW-G-I		X					X
MW-G-D				X			
OW-1D							
OW-1R							
Off Site Wells							
Hammond			**				
MW-0S-1-I		X	X				
MW-0S-1-D				X			
MW-0S-2		X	X				
MW-0S-3		X			X		
Chillicothe Paper Pumping Wells							
Chillicothe Paper 13						X	
Chillicothe Paper 14						X	
Chillicothe Paper 16						X	
Chillicothe Paper 17					X	X	
Chillicothe Paper 18					X	X	

Notes:

[1]VOC analysis by USEPA SW-846 Method 8260B.

[2]Obtained annually from Chillicothe Paper's monthly data summary reports.

*Based on the revised 3rd 5 Year Review submitted by KEY and the cooresponding OEPA approval letter on September 7, 2016, sampling is no longer required at wells MW-D-D and MW-H-I.

**Based on the revised 3rd 5 Year Review submitted by KEY and the cooresponding OEPA approval letter on September 7, 2016, sampling is no longer required at the Hammond well, contingent upon ground water flow direction remaining north/northeastward away from the Hammond well.

APPENDIX B

Laboratory Results and Data Validation Report

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Angela Gatchie
Key Environmental, Inc
200 Third Avenue
Carnegie, Pennsylvania 15106

Generated 7/14/2025 3:44:43 PM Revision 1

JOB DESCRIPTION

Alcoa - Wearever - Chillicothe

JOB NUMBER

240-223713-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Revision 1

Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

Table of Contents

Definitions/Glossary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery 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.

Glossary

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

Job Narrative
240-223713-1

071425 Revised report to add a comment concerning MS MSD on the following sample: MW-D-S (240-223713-2 This report replaces the report previously issued on 051525.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/6/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-655564 was outside the method criteria for the following analyte(s): Bromomethane and Chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-655733 recovered above the upper control limit for Carbon disulfide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:MW-C-I (240-223713-1), MW-I-S (240-223713-3), MW-OS-1-I (240-223713-4) and MW-OS-2 (240-223713-6).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-655733 were outside expected recovery/control limits for Trichloroethene. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The undiluted analysis of this sample and MS/MSD MW-D-S (240-223713-2), MW-D-S (240-223713-2[MS]) and MW-D-S (240-223713-2[MSD]) displayed a similar problem with Trichloroethene but not as bad.

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

Method Summary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223713-1	MW-C-I	Water	05/05/25 10:20	05/06/25 09:20
240-223713-2	MW-D-S	Water	05/05/25 11:10	05/06/25 09:20
240-223713-3	MW-I-S	Water	05/05/25 12:00	05/06/25 09:20
240-223713-4	MW-OS-1-I	Water	05/05/25 12:50	05/06/25 09:20
240-223713-5	M-99	Water	05/05/25 00:00	05/06/25 09:20
240-223713-6	MW-OS-2	Water	05/05/25 13:15	05/06/25 09:20
240-223713-7	TB-1	Water	05/05/25 05:00	05/06/25 09:20

Detection Summary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: MW-C-I — Lab Sample ID: 240-223713-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2500		50	23	ug/L	50		8260D	Total/NA
1,1-Dichloroethene - RA	110		5.0	2.5	ug/L	5		8260D	Total/NA
Acetone - RA	150		50	27	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene - RA	19		5.0	2.6	ug/L	5		8260D	Total/NA
Trichloroethene - RA	12		5.0	2.2	ug/L	5		8260D	Total/NA
Vinyl chloride - RA	190		5.0	2.3	ug/L	5		8260D	Total/NA

Client Sample ID: MW-D-S — Lab Sample ID: 240-223713-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	100	F1	2.0	0.88	ug/L	2		8260D	Total/NA
Acetone - RA	6.1	J	10	5.4	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - RA	15		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene - RA	1.1		1.0	0.51	ug/L	1		8260D	Total/NA
Trichloroethene - RA	100	E	1.0	0.44	ug/L	1		8260D	Total/NA

Client Sample ID: MW-I-S — Lab Sample ID: 240-223713-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.2	J	10	5.4	ug/L	1		8260D	Total/NA
Trichloroethene	2.3		1.0	0.44	ug/L	1		8260D	Total/NA

Client Sample ID: MW-OS-1-I — Lab Sample ID: 240-223713-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		50	23	ug/L	50		8260D	Total/NA
1,1-Dichloroethene - RA	40		5.0	2.5	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene - RA	8.4		5.0	2.6	ug/L	5		8260D	Total/NA
Trichloroethene - RA	39		5.0	2.2	ug/L	5		8260D	Total/NA
Vinyl chloride - RA	210		5.0	2.3	ug/L	5		8260D	Total/NA

Client Sample ID: M-99 — Lab Sample ID: 240-223713-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	38		1.0	0.49	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1700		40	18	ug/L	40		8260D	Total/NA
trans-1,2-Dichloroethene	8.3		1.0	0.51	ug/L	1		8260D	Total/NA
Trichloroethene	40		1.0	0.44	ug/L	1		8260D	Total/NA
Vinyl chloride	200		40	18	ug/L	40		8260D	Total/NA

Client Sample ID: MW-OS-2 — Lab Sample ID: 240-223713-6

No Detections.

Client Sample ID: TB-1 — Lab Sample ID: 240-223713-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-C-I
Date Collected: 05/05/25 10:20
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2500**		50	23	ug/L			05/12/25 19:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*		*05/12/25 19:30*	*50*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*		*05/12/25 19:30*	*50*
Toluene-d8 (Surr)	*103*		*78 - 122*		*05/12/25 19:30*	*50*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*05/12/25 19:30*	*50*

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		5.0	2.4	ug/L			05/13/25 19:52	5
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			05/13/25 19:52	5
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			05/13/25 19:52	5
1,1-Dichloroethane	ND		5.0	2.4	ug/L			05/13/25 19:52	5
1,1-Dichloroethene	**110**		5.0	2.5	ug/L			05/13/25 19:52	5
1,2-Dichloroethane	ND		5.0	2.3	ug/L			05/13/25 19:52	5
1,2-Dichloropropane	ND		5.0	2.4	ug/L			05/13/25 19:52	5
2-Hexanone	ND		50	5.6	ug/L			05/13/25 19:52	5
Acetone	**150**		50	27	ug/L			05/13/25 19:52	5
Benzene	ND		5.0	2.1	ug/L			05/13/25 19:52	5
Bromoform	ND		5.0	3.8	ug/L			05/13/25 19:52	5
Bromomethane	ND		5.0	2.1	ug/L			05/13/25 19:52	5
Carbon disulfide	ND		5.0	3.0	ug/L			05/13/25 19:52	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			05/13/25 19:52	5
Chlorobenzene	ND		5.0	1.9	ug/L			05/13/25 19:52	5
Chloroethane	ND		5.0	4.2	ug/L			05/13/25 19:52	5
Chloroform	ND		5.0	2.4	ug/L			05/13/25 19:52	5
Chloromethane	ND		5.0	3.2	ug/L			05/13/25 19:52	5
cis-1,3-Dichloropropene	ND		5.0	3.1	ug/L			05/13/25 19:52	5
Dichlorobromomethane	ND		5.0	1.9	ug/L			05/13/25 19:52	5
Ethylbenzene	ND		5.0	2.1	ug/L			05/13/25 19:52	5
Hexane	ND		5.0	1.9	ug/L			05/13/25 19:52	5
m-Xylene & p-Xylene	ND		10	2.1	ug/L			05/13/25 19:52	5
2-Butanone (MEK)	ND		50	5.8	ug/L			05/13/25 19:52	5
4-Methyl-2-pentanone (MIBK)	ND		50	5.0	ug/L			05/13/25 19:52	5
Methylene Chloride	ND		25	13	ug/L			05/13/25 19:52	5
o-Xylene	ND		5.0	2.1	ug/L			05/13/25 19:52	5
Styrene	ND		5.0	2.3	ug/L			05/13/25 19:52	5
Tetrachloroethene	ND		5.0	2.2	ug/L			05/13/25 19:52	5
Toluene	ND		5.0	2.2	ug/L			05/13/25 19:52	5
trans-1,2-Dichloroethene	**19**		5.0	2.6	ug/L			05/13/25 19:52	5
trans-1,3-Dichloropropene	ND		5.0	3.4	ug/L			05/13/25 19:52	5
Trichloroethene	**12**		5.0	2.2	ug/L			05/13/25 19:52	5
Vinyl chloride	**190**		5.0	2.3	ug/L			05/13/25 19:52	5
Xylenes, Total	ND		10	2.1	ug/L			05/13/25 19:52	5
Chlorodibromomethane	ND		5.0	2.0	ug/L			05/13/25 19:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*62 - 137*		*05/13/25 19:52*	*5*
4-Bromofluorobenzene (Surr)	*105*		*56 - 136*		*05/13/25 19:52*	*5*

Client Sample ID: MW-C-I
Date Collected: 05/05/25 10:20
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-1
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*109*		*78 - 122*		*05/13/25 19:52*	*5*
Dibromofluoromethane (Surr)	*113*		*73 - 120*		*05/13/25 19:52*	*5*

Client Sample ID: MW-D-S
Date Collected: 05/05/25 11:10
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**100**	**F1**	2.0	0.88	ug/L			05/13/25 18:42	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*05/13/25 18:42*	*2*
4-Bromofluorobenzene (Surr)	*89*		*56 - 136*		*05/13/25 18:42*	*2*
Toluene-d8 (Surr)	*95*		*78 - 122*		*05/13/25 18:42*	*2*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*05/13/25 18:42*	*2*

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		1.0	0.48	ug/L			05/12/25 19:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/12/25 19:54	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 19:54	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/12/25 19:54	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/12/25 19:54	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/12/25 19:54	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/12/25 19:54	1
2-Hexanone	ND		10	1.1	ug/L			05/12/25 19:54	1
Acetone	**6.1**	**J**	10	5.4	ug/L			05/12/25 19:54	1
Benzene	ND		1.0	0.42	ug/L			05/12/25 19:54	1
Bromoform	ND		1.0	0.76	ug/L			05/12/25 19:54	1
Bromomethane	ND		1.0	0.42	ug/L			05/12/25 19:54	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/12/25 19:54	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/12/25 19:54	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/12/25 19:54	1
Chloroethane	ND		1.0	0.83	ug/L			05/12/25 19:54	1
Chloroform	ND		1.0	0.47	ug/L			05/12/25 19:54	1
Chloromethane	ND		1.0	0.63	ug/L			05/12/25 19:54	1
cis-1,2-Dichloroethene	**15**		1.0	0.46	ug/L			05/12/25 19:54	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/12/25 19:54	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/12/25 19:54	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/12/25 19:54	1
Hexane	ND		1.0	0.37	ug/L			05/12/25 19:54	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/12/25 19:54	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/12/25 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/12/25 19:54	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/12/25 19:54	1
o-Xylene	ND		1.0	0.42	ug/L			05/12/25 19:54	1
Styrene	ND		1.0	0.45	ug/L			05/12/25 19:54	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/12/25 19:54	1
Toluene	ND		1.0	0.44	ug/L			05/12/25 19:54	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.51	ug/L			05/12/25 19:54	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/12/25 19:54	1
Trichloroethene	**100**	**E**	1.0	0.44	ug/L			05/12/25 19:54	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/12/25 19:54	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/12/25 19:54	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/12/25 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*05/12/25 19:54*	*1*

Client Sample ID: MW-D-S
Date Collected: 05/05/25 11:10
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-2
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		56 - 136		05/12/25 19:54	1
Toluene-d8 (Surr)	96		78 - 122		05/12/25 19:54	1
Dibromofluoromethane (Surr)	100		73 - 120		05/12/25 19:54	1

Client Sample ID: MW-I-S
Date Collected: 05/05/25 12:00
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.48	ug/L			05/13/25 17:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/13/25 17:32	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/13/25 17:32	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/13/25 17:32	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/13/25 17:32	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/13/25 17:32	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/13/25 17:32	1
2-Hexanone	ND		10	1.1	ug/L			05/13/25 17:32	1
Acetone	**8.2**	**J**	10	5.4	ug/L			05/13/25 17:32	1
Benzene	ND		1.0	0.42	ug/L			05/13/25 17:32	1
Bromoform	ND		1.0	0.76	ug/L			05/13/25 17:32	1
Bromomethane	ND		1.0	0.42	ug/L			05/13/25 17:32	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/13/25 17:32	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/13/25 17:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/13/25 17:32	1
Chloroethane	ND		1.0	0.83	ug/L			05/13/25 17:32	1
Chloroform	ND		1.0	0.47	ug/L			05/13/25 17:32	1
Chloromethane	ND		1.0	0.63	ug/L			05/13/25 17:32	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			05/13/25 17:32	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/13/25 17:32	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/13/25 17:32	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/13/25 17:32	1
Hexane	ND		1.0	0.37	ug/L			05/13/25 17:32	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/13/25 17:32	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/13/25 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/13/25 17:32	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/13/25 17:32	1
o-Xylene	ND		1.0	0.42	ug/L			05/13/25 17:32	1
Styrene	ND		1.0	0.45	ug/L			05/13/25 17:32	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/13/25 17:32	1
Toluene	ND		1.0	0.44	ug/L			05/13/25 17:32	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			05/13/25 17:32	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/13/25 17:32	1
Trichloroethene	**2.3**		1.0	0.44	ug/L			05/13/25 17:32	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/13/25 17:32	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/13/25 17:32	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/13/25 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*05/13/25 17:32*	*1*
4-Bromofluorobenzene (Surr)	*90*		*56 - 136*		*05/13/25 17:32*	*1*
Toluene-d8 (Surr)	*94*		*78 - 122*		*05/13/25 17:32*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 120*		*05/13/25 17:32*	*1*

Client Sample ID: MW-OS-1-I
Date Collected: 05/05/25 12:50
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1800**		50	23	ug/L			05/12/25 22:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*		*05/12/25 22:14*	*50*
4-Bromofluorobenzene (Surr)	*102*		*56 - 136*		*05/12/25 22:14*	*50*
Toluene-d8 (Surr)	*104*		*78 - 122*		*05/12/25 22:14*	*50*
Dibromofluoromethane (Surr)	*111*		*73 - 120*		*05/12/25 22:14*	*50*

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		5.0	2.4	ug/L			05/13/25 20:16	5
1,1,2,2-Tetrachloroethane	ND		5.0	3.0	ug/L			05/13/25 20:16	5
1,1,2-Trichloroethane	ND		5.0	2.4	ug/L			05/13/25 20:16	5
1,1-Dichloroethane	ND		5.0	2.4	ug/L			05/13/25 20:16	5
1,1-Dichloroethene	**40**		5.0	2.5	ug/L			05/13/25 20:16	5
1,2-Dichloroethane	ND		5.0	2.3	ug/L			05/13/25 20:16	5
1,2-Dichloropropane	ND		5.0	2.4	ug/L			05/13/25 20:16	5
2-Hexanone	ND		50	5.6	ug/L			05/13/25 20:16	5
Acetone	ND		50	27	ug/L			05/13/25 20:16	5
Benzene	ND		5.0	2.1	ug/L			05/13/25 20:16	5
Bromoform	ND		5.0	3.8	ug/L			05/13/25 20:16	5
Bromomethane	ND		5.0	2.1	ug/L			05/13/25 20:16	5
Carbon disulfide	ND		5.0	3.0	ug/L			05/13/25 20:16	5
Carbon tetrachloride	ND		5.0	1.3	ug/L			05/13/25 20:16	5
Chlorobenzene	ND		5.0	1.9	ug/L			05/13/25 20:16	5
Chloroethane	ND		5.0	4.2	ug/L			05/13/25 20:16	5
Chloroform	ND		5.0	2.4	ug/L			05/13/25 20:16	5
Chloromethane	ND		5.0	3.2	ug/L			05/13/25 20:16	5
cis-1,3-Dichloropropene	ND		5.0	3.1	ug/L			05/13/25 20:16	5
Dichlorobromomethane	ND		5.0	1.9	ug/L			05/13/25 20:16	5
Ethylbenzene	ND		5.0	2.1	ug/L			05/13/25 20:16	5
Hexane	ND		5.0	1.9	ug/L			05/13/25 20:16	5
m-Xylene & p-Xylene	ND		10	2.1	ug/L			05/13/25 20:16	5
2-Butanone (MEK)	ND		50	5.8	ug/L			05/13/25 20:16	5
4-Methyl-2-pentanone (MIBK)	ND		50	5.0	ug/L			05/13/25 20:16	5
Methylene Chloride	ND		25	13	ug/L			05/13/25 20:16	5
o-Xylene	ND		5.0	2.1	ug/L			05/13/25 20:16	5
Styrene	ND		5.0	2.3	ug/L			05/13/25 20:16	5
Tetrachloroethene	ND		5.0	2.2	ug/L			05/13/25 20:16	5
Toluene	ND		5.0	2.2	ug/L			05/13/25 20:16	5
trans-1,2-Dichloroethene	**8.4**		5.0	2.6	ug/L			05/13/25 20:16	5
trans-1,3-Dichloropropene	ND		5.0	3.4	ug/L			05/13/25 20:16	5
Trichloroethene	**39**		5.0	2.2	ug/L			05/13/25 20:16	5
Vinyl chloride	**210**		5.0	2.3	ug/L			05/13/25 20:16	5
Xylenes, Total	ND		10	2.1	ug/L			05/13/25 20:16	5
Chlorodibromomethane	ND		5.0	2.0	ug/L			05/13/25 20:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*		*05/13/25 20:16*	*5*
4-Bromofluorobenzene (Surr)	*90*		*56 - 136*		*05/13/25 20:16*	*5*

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: MW-OS-1-I
Date Collected: 05/05/25 12:50
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		78 - 122		05/13/25 20:16	5
Dibromofluoromethane (Surr)	104		73 - 120		05/13/25 20:16	5

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: M-99
Date Collected: 05/05/25 00:00
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 21:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/12/25 21:27	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 21:27	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/12/25 21:27	1
1,1-Dichloroethene	**38**		1.0	0.49	ug/L			05/12/25 21:27	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/12/25 21:27	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/12/25 21:27	1
2-Hexanone	ND		10	1.1	ug/L			05/12/25 21:27	1
Acetone	ND		10	5.4	ug/L			05/12/25 21:27	1
Benzene	ND		1.0	0.42	ug/L			05/12/25 21:27	1
Bromoform	ND		1.0	0.76	ug/L			05/12/25 21:27	1
Bromomethane	ND		1.0	0.42	ug/L			05/12/25 21:27	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/12/25 21:27	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/12/25 21:27	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/12/25 21:27	1
Chloroethane	ND		1.0	0.83	ug/L			05/12/25 21:27	1
Chloroform	ND		1.0	0.47	ug/L			05/12/25 21:27	1
Chloromethane	ND		1.0	0.63	ug/L			05/12/25 21:27	1
cis-1,2-Dichloroethene	**1700**		40	18	ug/L			05/13/25 18:19	40
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/12/25 21:27	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/12/25 21:27	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/12/25 21:27	1
Hexane	ND		1.0	0.37	ug/L			05/12/25 21:27	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/12/25 21:27	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/12/25 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/12/25 21:27	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/12/25 21:27	1
o-Xylene	ND		1.0	0.42	ug/L			05/12/25 21:27	1
Styrene	ND		1.0	0.45	ug/L			05/12/25 21:27	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/12/25 21:27	1
Toluene	ND		1.0	0.44	ug/L			05/12/25 21:27	1
trans-1,2-Dichloroethene	**8.3**		1.0	0.51	ug/L			05/12/25 21:27	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/12/25 21:27	1
Trichloroethene	**40**		1.0	0.44	ug/L			05/12/25 21:27	1
Vinyl chloride	**200**		40	18	ug/L			05/13/25 18:19	40
Xylenes, Total	ND		2.0	0.42	ug/L			05/12/25 21:27	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/12/25 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*05/12/25 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*05/13/25 18:19*	*40*
4-Bromofluorobenzene (Surr)	*96*		*56 - 136*		*05/12/25 21:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*56 - 136*		*05/13/25 18:19*	*40*
Toluene-d8 (Surr)	*97*		*78 - 122*		*05/12/25 21:27*	*1*
Toluene-d8 (Surr)	*101*		*78 - 122*		*05/13/25 18:19*	*40*
Dibromofluoromethane (Surr)	*100*		*73 - 120*		*05/12/25 21:27*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 120*		*05/13/25 18:19*	*40*

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: MW-OS-2
Date Collected: 05/05/25 13:15
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.48	ug/L			05/13/25 17:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/13/25 17:55	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/13/25 17:55	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/13/25 17:55	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/13/25 17:55	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/13/25 17:55	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/13/25 17:55	1
2-Hexanone	ND		10	1.1	ug/L			05/13/25 17:55	1
Acetone	ND		10	5.4	ug/L			05/13/25 17:55	1
Benzene	ND		1.0	0.42	ug/L			05/13/25 17:55	1
Bromoform	ND		1.0	0.76	ug/L			05/13/25 17:55	1
Bromomethane	ND		1.0	0.42	ug/L			05/13/25 17:55	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/13/25 17:55	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/13/25 17:55	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/13/25 17:55	1
Chloroethane	ND		1.0	0.83	ug/L			05/13/25 17:55	1
Chloroform	ND		1.0	0.47	ug/L			05/13/25 17:55	1
Chloromethane	ND		1.0	0.63	ug/L			05/13/25 17:55	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			05/13/25 17:55	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/13/25 17:55	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/13/25 17:55	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/13/25 17:55	1
Hexane	ND		1.0	0.37	ug/L			05/13/25 17:55	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/13/25 17:55	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/13/25 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/13/25 17:55	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/13/25 17:55	1
o-Xylene	ND		1.0	0.42	ug/L			05/13/25 17:55	1
Styrene	ND		1.0	0.45	ug/L			05/13/25 17:55	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/13/25 17:55	1
Toluene	ND		1.0	0.44	ug/L			05/13/25 17:55	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			05/13/25 17:55	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/13/25 17:55	1
Trichloroethene	ND		1.0	0.44	ug/L			05/13/25 17:55	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/13/25 17:55	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/13/25 17:55	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/13/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*05/13/25 17:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*56 - 136*		*05/13/25 17:55*	*1*
Toluene-d8 (Surr)	*97*		*78 - 122*		*05/13/25 17:55*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*05/13/25 17:55*	*1*

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: TB-1
Date Collected: 05/05/25 05:00
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/12/25 19:07	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 19:07	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/12/25 19:07	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/12/25 19:07	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/12/25 19:07	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/12/25 19:07	1
2-Hexanone	ND		10	1.1	ug/L			05/12/25 19:07	1
Acetone	ND		10	5.4	ug/L			05/12/25 19:07	1
Benzene	ND		1.0	0.42	ug/L			05/12/25 19:07	1
Bromoform	ND		1.0	0.76	ug/L			05/12/25 19:07	1
Bromomethane	ND		1.0	0.42	ug/L			05/12/25 19:07	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/12/25 19:07	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/12/25 19:07	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/12/25 19:07	1
Chloroethane	ND		1.0	0.83	ug/L			05/12/25 19:07	1
Chloroform	ND		1.0	0.47	ug/L			05/12/25 19:07	1
Chloromethane	ND		1.0	0.63	ug/L			05/12/25 19:07	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			05/12/25 19:07	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/12/25 19:07	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/12/25 19:07	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/12/25 19:07	1
Hexane	ND		1.0	0.37	ug/L			05/12/25 19:07	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/12/25 19:07	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/12/25 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/12/25 19:07	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/12/25 19:07	1
o-Xylene	ND		1.0	0.42	ug/L			05/12/25 19:07	1
Styrene	ND		1.0	0.45	ug/L			05/12/25 19:07	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/12/25 19:07	1
Toluene	ND		1.0	0.44	ug/L			05/12/25 19:07	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			05/12/25 19:07	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/12/25 19:07	1
Trichloroethene	ND		1.0	0.44	ug/L			05/12/25 19:07	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/12/25 19:07	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/12/25 19:07	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/12/25 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*		*05/12/25 19:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*		*05/12/25 19:07*	*1*
Toluene-d8 (Surr)	*100*		*78 - 122*		*05/12/25 19:07*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 120*		*05/12/25 19:07*	*1*

Surrogate Summary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-223713-1	MW-C-I	107	103	103	109
240-223713-1 - RA	MW-C-I	109	105	109	113
240-223713-2 - RA	MW-D-S	98	90	96	100
240-223713-2	MW-D-S	101	89	95	103
240-223713-2 MS	MW-D-S	97	103	97	102
240-223713-2 MS	MW-D-S	94	102	100	96
240-223713-2 MSD	MW-D-S	100	107	101	105
240-223713-2 MSD	MW-D-S	101	105	103	106
240-223713-3	MW-I-S	101	90	94	102
240-223713-4	MW-OS-1-I	108	102	104	111
240-223713-4 - RA	MW-OS-1-I	99	90	96	104
240-223713-5	M-99	98	96	97	100
240-223713-5	M-99	105	95	101	106
240-223713-6	MW-OS-2	103	92	97	104
240-223713-7	TB-1	104	103	100	108
LCS 240-655564/5	Lab Control Sample	94	99	97	99
LCS 240-655733/5	Lab Control Sample	94	104	98	98
MB 240-655564/10	Method Blank	98	94	95	99
MB 240-655733/10	Method Blank	103	98	101	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-655564/10
Matrix: Water
Analysis Batch: 655564

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	0.48	ug/L			05/12/25 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/12/25 13:16	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/12/25 13:16	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/12/25 13:16	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/12/25 13:16	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/12/25 13:16	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/12/25 13:16	1
2-Hexanone	ND		10	1.1	ug/L			05/12/25 13:16	1
Acetone	ND		10	5.4	ug/L			05/12/25 13:16	1
Benzene	ND		1.0	0.42	ug/L			05/12/25 13:16	1
Bromoform	ND		1.0	0.76	ug/L			05/12/25 13:16	1
Bromomethane	ND		1.0	0.42	ug/L			05/12/25 13:16	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/12/25 13:16	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/12/25 13:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/12/25 13:16	1
Chloroethane	ND		1.0	0.83	ug/L			05/12/25 13:16	1
Chloroform	ND		1.0	0.47	ug/L			05/12/25 13:16	1
Chloromethane	ND		1.0	0.63	ug/L			05/12/25 13:16	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			05/12/25 13:16	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/12/25 13:16	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/12/25 13:16	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/12/25 13:16	1
Hexane	ND		1.0	0.37	ug/L			05/12/25 13:16	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/12/25 13:16	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/12/25 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/12/25 13:16	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/12/25 13:16	1
o-Xylene	ND		1.0	0.42	ug/L			05/12/25 13:16	1
Styrene	ND		1.0	0.45	ug/L			05/12/25 13:16	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/12/25 13:16	1
Toluene	ND		1.0	0.44	ug/L			05/12/25 13:16	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			05/12/25 13:16	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/12/25 13:16	1
Trichloroethene	ND		1.0	0.44	ug/L			05/12/25 13:16	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/12/25 13:16	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/12/25 13:16	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/12/25 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*05/12/25 13:16*	*1*
4-Bromofluorobenzene (Surr)	*94*		*56 - 136*		*05/12/25 13:16*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*05/12/25 13:16*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 120*		*05/12/25 13:16*	*1*

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

Lab Sample ID: LCS 240-655564/5
Matrix: Water
Analysis Batch: 655564

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	20.0	19.9		ug/L		100	64 - 131
1,1,2,2-Tetrachloroethane	20.0	20.0		ug/L		100	58 - 157
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	70 - 138
1,1-Dichloroethane	20.0	21.0		ug/L		105	72 - 127
1,1-Dichloroethene	20.0	21.2		ug/L		106	63 - 134
1,2-Dichloroethane	20.0	18.3		ug/L		91	66 - 128
1,2-Dichloropropane	20.0	19.6		ug/L		98	75 - 133
2-Hexanone	40.0	41.0		ug/L		102	43 - 167
Acetone	40.0	35.9		ug/L		90	50 - 149
Benzene	20.0	20.0		ug/L		100	77 - 123
Bromoform	20.0	19.8		ug/L		99	57 - 129
Bromomethane	20.0	13.2		ug/L		66	36 - 142
Carbon disulfide	20.0	22.9		ug/L		115	43 - 140
Carbon tetrachloride	20.0	19.0		ug/L		95	55 - 137
Chlorobenzene	20.0	19.0		ug/L		95	80 - 121
Chloroethane	20.0	14.3		ug/L		72	38 - 152
Chloroform	20.0	20.1		ug/L		100	74 - 122
Chloromethane	20.0	13.1		ug/L		66	47 - 143
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	77 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	64 - 130
Dichlorobromomethane	20.0	20.2		ug/L		101	69 - 126
Ethylbenzene	20.0	20.1		ug/L		100	80 - 121
Hexane	20.0	19.3		ug/L		97	53 - 144
m-Xylene & p-Xylene	20.0	20.8		ug/L		104	80 - 120
2-Butanone (MEK)	40.0	36.9		ug/L		92	54 - 156
4-Methyl-2-pentanone (MIBK)	40.0	39.4		ug/L		98	46 - 158
Methylene Chloride	20.0	21.5		ug/L		108	71 - 125
o-Xylene	20.0	20.2		ug/L		101	80 - 123
Styrene	20.0	20.5		ug/L		103	80 - 135
Tetrachloroethene	20.0	19.2		ug/L		96	76 - 123
Toluene	20.0	19.4		ug/L		97	80 - 123
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	75 - 124
trans-1,3-Dichloropropene	20.0	20.9		ug/L		105	57 - 129
Trichloroethene	20.0	18.5		ug/L		93	70 - 122
Vinyl chloride	20.0	15.4		ug/L		77	60 - 144
Xylenes, Total	40.0	41.0		ug/L		103	80 - 121
Chlorodibromomethane	20.0	19.8		ug/L		99	70 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
4-Bromofluorobenzene (Surr)	*99*		*56 - 136*
Toluene-d8 (Surr)	*97*		*78 - 122*
Dibromofluoromethane (Surr)	*99*		*73 - 120*

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

Lab Sample ID: 240-223713-2 MS
Matrix: Water
Analysis Batch: 655564

Client Sample ID: MW-D-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		20.0	19.2		ug/L		96	60 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	19.4		ug/L		97	54 - 145
1,1,2-Trichloroethane	ND		20.0	19.0		ug/L		95	69 - 131
1,1-Dichloroethane	ND		20.0	20.5		ug/L		102	68 - 125
1,1-Dichloroethene	ND		20.0	20.1		ug/L		100	56 - 135
1,2-Dichloroethane	ND		20.0	17.9		ug/L		90	63 - 126
1,2-Dichloropropane	ND		20.0	19.1		ug/L		96	69 - 130
2-Hexanone	ND		40.0	40.9		ug/L		102	35 - 156
Acetone	6.1	J	40.0	45.5		ug/L		99	33 - 149
Benzene	ND		20.0	19.5		ug/L		97	64 - 128
Bromoform	ND		20.0	18.4		ug/L		92	47 - 125
Bromomethane	ND		20.0	12.1		ug/L		61	28 - 150
Carbon disulfide	ND		20.0	21.1		ug/L		105	38 - 140
Carbon tetrachloride	ND		20.0	18.2		ug/L		91	51 - 133
Chlorobenzene	ND		20.0	18.4		ug/L		92	74 - 121
Chloroethane	ND		20.0	13.4		ug/L		67	10 - 199
Chloroform	ND		20.0	19.5		ug/L		98	70 - 122
Chloromethane	ND		20.0	12.3		ug/L		61	32 - 149
cis-1,2-Dichloroethene	15		20.0	33.4		ug/L		94	66 - 128
cis-1,3-Dichloropropene	ND		20.0	17.1		ug/L		86	47 - 125
Dichlorobromomethane	ND		20.0	19.4		ug/L		97	62 - 125
Ethylbenzene	ND		20.0	20.1		ug/L		100	67 - 127
Hexane	ND		20.0	17.3		ug/L		87	41 - 131
m-Xylene & p-Xylene	ND		20.0	20.4		ug/L		102	71 - 123
2-Butanone (MEK)	ND		40.0	36.8		ug/L		92	40 - 151
4-Methyl-2-pentanone (MIBK)	ND		40.0	38.7		ug/L		97	31 - 153
Methylene Chloride	ND		20.0	20.3		ug/L		102	62 - 129
o-Xylene	ND		20.0	20.1		ug/L		100	70 - 125
Styrene	ND		20.0	20.0		ug/L		100	70 - 139
Tetrachloroethene	ND		20.0	18.8		ug/L		94	62 - 131
Toluene	ND		20.0	18.9		ug/L		95	58 - 135
trans-1,2-Dichloroethene	1.1		20.0	20.7		ug/L		98	56 - 136
trans-1,3-Dichloropropene	ND		20.0	19.6		ug/L		98	47 - 120
Vinyl chloride	ND		20.0	14.7		ug/L		74	43 - 157
Xylenes, Total	ND		40.0	40.5		ug/L		101	71 - 123
Chlorodibromomethane	ND		20.0	18.7		ug/L		93	65 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*62 - 137*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*
Toluene-d8 (Surr)	*97*		*78 - 122*
Dibromofluoromethane (Surr)	*102*		*73 - 120*

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

Lab Sample ID: 240-223713-2 MSD
Matrix: Water
Analysis Batch: 655564

Client Sample ID: MW-D-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	19.6		ug/L		98	60 - 130	2	17
1,1,2,2-Tetrachloroethane	ND		20.0	19.9		ug/L		100	54 - 145	3	15
1,1,2-Trichloroethane	ND		20.0	19.4		ug/L		97	69 - 131	2	14
1,1-Dichloroethane	ND		20.0	20.5		ug/L		103	68 - 125	0	13
1,1-Dichloroethene	ND		20.0	20.1		ug/L		100	56 - 135	0	26
1,2-Dichloroethane	ND		20.0	18.2		ug/L		91	63 - 126	1	12
1,2-Dichloropropane	ND		20.0	19.6		ug/L		98	69 - 130	3	13
2-Hexanone	ND		40.0	41.2		ug/L		103	35 - 156	1	17
Acetone	6.1	J	40.0	44.2		ug/L		95	33 - 149	3	34
Benzene	ND		20.0	19.6		ug/L		98	64 - 128	1	14
Bromoform	ND		20.0	18.9		ug/L		95	47 - 125	3	15
Bromomethane	ND		20.0	12.8		ug/L		64	28 - 150	5	26
Carbon disulfide	ND		20.0	21.2		ug/L		106	38 - 140	1	23
Carbon tetrachloride	ND		20.0	18.1		ug/L		91	51 - 133	0	24
Chlorobenzene	ND		20.0	18.5		ug/L		92	74 - 121	0	14
Chloroethane	ND		20.0	13.7		ug/L		69	10 - 199	2	30
Chloroform	ND		20.0	19.6		ug/L		98	70 - 122	0	14
Chloromethane	ND		20.0	12.3		ug/L		61	32 - 149	0	27
cis-1,2-Dichloroethene	15		20.0	33.7		ug/L		96	66 - 128	1	14
cis-1,3-Dichloropropene	ND		20.0	17.2		ug/L		86	47 - 125	0	13
Dichlorobromomethane	ND		20.0	19.5		ug/L		97	62 - 125	1	13
Ethylbenzene	ND		20.0	19.7		ug/L		98	67 - 127	2	15
Hexane	ND		20.0	17.4		ug/L		87	41 - 131	1	35
m-Xylene & p-Xylene	ND		20.0	20.0		ug/L		100	71 - 123	2	16
2-Butanone (MEK)	ND		40.0	38.4		ug/L		96	40 - 151	4	20
4-Methyl-2-pentanone (MIBK)	ND		40.0	39.1		ug/L		98	31 - 153	1	15
Methylene Chloride	ND		20.0	20.9		ug/L		105	62 - 129	3	17
o-Xylene	ND		20.0	19.8		ug/L		99	70 - 125	1	15
Styrene	ND		20.0	20.1		ug/L		100	70 - 139	0	18
Tetrachloroethene	ND		20.0	18.3		ug/L		92	62 - 131	2	20
Toluene	ND		20.0	18.9		ug/L		94	58 - 135	0	14
trans-1,2-Dichloroethene	1.1		20.0	21.0		ug/L		99	56 - 136	1	15
trans-1,3-Dichloropropene	ND		20.0	20.1		ug/L		100	47 - 120	2	14
Vinyl chloride	ND		20.0	15.2		ug/L		76	43 - 157	3	24
Xylenes, Total	ND		40.0	39.8		ug/L		100	71 - 123	2	15
Chlorodibromomethane	ND		20.0	18.6		ug/L		93	65 - 120	0	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*
4-Bromofluorobenzene (Surr)	*107*		*56 - 136*
Toluene-d8 (Surr)	*101*		*78 - 122*
Dibromofluoromethane (Surr)	*105*		*73 - 120*

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

Lab Sample ID: MB 240-655733/10
Matrix: Water
Analysis Batch: 655733

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	0.48	ug/L			05/13/25 11:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.60	ug/L			05/13/25 11:40	1
1,1,2-Trichloroethane	ND		1.0	0.48	ug/L			05/13/25 11:40	1
1,1-Dichloroethane	ND		1.0	0.47	ug/L			05/13/25 11:40	1
1,1-Dichloroethene	ND		1.0	0.49	ug/L			05/13/25 11:40	1
1,2-Dichloroethane	ND		1.0	0.46	ug/L			05/13/25 11:40	1
1,2-Dichloropropane	ND		1.0	0.47	ug/L			05/13/25 11:40	1
2-Hexanone	ND		10	1.1	ug/L			05/13/25 11:40	1
Acetone	ND		10	5.4	ug/L			05/13/25 11:40	1
Benzene	ND		1.0	0.42	ug/L			05/13/25 11:40	1
Bromoform	ND		1.0	0.76	ug/L			05/13/25 11:40	1
Bromomethane	ND		1.0	0.42	ug/L			05/13/25 11:40	1
Carbon disulfide	ND		1.0	0.59	ug/L			05/13/25 11:40	1
Carbon tetrachloride	ND		1.0	0.26	ug/L			05/13/25 11:40	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/13/25 11:40	1
Chloroethane	ND		1.0	0.83	ug/L			05/13/25 11:40	1
Chloroform	ND		1.0	0.47	ug/L			05/13/25 11:40	1
Chloromethane	ND		1.0	0.63	ug/L			05/13/25 11:40	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			05/13/25 11:40	1
cis-1,3-Dichloropropene	ND		1.0	0.61	ug/L			05/13/25 11:40	1
Dichlorobromomethane	ND		1.0	0.38	ug/L			05/13/25 11:40	1
Ethylbenzene	ND		1.0	0.42	ug/L			05/13/25 11:40	1
Hexane	ND		1.0	0.37	ug/L			05/13/25 11:40	1
m-Xylene & p-Xylene	ND		2.0	0.42	ug/L			05/13/25 11:40	1
2-Butanone (MEK)	ND		10	1.2	ug/L			05/13/25 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.99	ug/L			05/13/25 11:40	1
Methylene Chloride	ND		5.0	2.6	ug/L			05/13/25 11:40	1
o-Xylene	ND		1.0	0.42	ug/L			05/13/25 11:40	1
Styrene	ND		1.0	0.45	ug/L			05/13/25 11:40	1
Tetrachloroethene	ND		1.0	0.44	ug/L			05/13/25 11:40	1
Toluene	ND		1.0	0.44	ug/L			05/13/25 11:40	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			05/13/25 11:40	1
trans-1,3-Dichloropropene	ND		1.0	0.67	ug/L			05/13/25 11:40	1
Trichloroethene	ND		1.0	0.44	ug/L			05/13/25 11:40	1
Vinyl chloride	ND		1.0	0.45	ug/L			05/13/25 11:40	1
Xylenes, Total	ND		2.0	0.42	ug/L			05/13/25 11:40	1
Chlorodibromomethane	ND		1.0	0.39	ug/L			05/13/25 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*05/13/25 11:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*56 - 136*		*05/13/25 11:40*	*1*
Toluene-d8 (Surr)	*101*		*78 - 122*		*05/13/25 11:40*	*1*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*05/13/25 11:40*	*1*

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

Lab Sample ID: LCS 240-655733/5
Matrix: Water
Analysis Batch: 655733

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	20.0	19.1		ug/L		96	64 - 131
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	58 - 157
1,1,2-Trichloroethane	20.0	20.1		ug/L		100	70 - 138
1,1-Dichloroethane	20.0	20.1		ug/L		101	72 - 127
1,1-Dichloroethene	20.0	19.5		ug/L		98	63 - 134
1,2-Dichloroethane	20.0	18.1		ug/L		91	66 - 128
1,2-Dichloropropane	20.0	20.0		ug/L		100	75 - 133
2-Hexanone	40.0	44.7		ug/L		112	43 - 167
Acetone	40.0	40.5		ug/L		101	50 - 149
Benzene	20.0	19.7		ug/L		98	77 - 123
Bromoform	20.0	21.2		ug/L		106	57 - 129
Bromomethane	20.0	13.7		ug/L		69	36 - 142
Carbon disulfide	20.0	22.6		ug/L		113	43 - 140
Carbon tetrachloride	20.0	18.2		ug/L		91	55 - 137
Chlorobenzene	20.0	19.2		ug/L		96	80 - 121
Chloroethane	20.0	14.5		ug/L		72	38 - 152
Chloroform	20.0	19.4		ug/L		97	74 - 122
Chloromethane	20.0	13.5		ug/L		68	47 - 143
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	77 - 123
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	64 - 130
Dichlorobromomethane	20.0	20.2		ug/L		101	69 - 126
Ethylbenzene	20.0	20.4		ug/L		102	80 - 121
Hexane	20.0	18.2		ug/L		91	53 - 144
m-Xylene & p-Xylene	20.0	21.0		ug/L		105	80 - 120
2-Butanone (MEK)	40.0	38.9		ug/L		97	54 - 156
4-Methyl-2-pentanone (MIBK)	40.0	42.4		ug/L		106	46 - 158
Methylene Chloride	20.0	20.9		ug/L		104	71 - 125
o-Xylene	20.0	20.4		ug/L		102	80 - 123
Styrene	20.0	21.1		ug/L		105	80 - 135
Tetrachloroethene	20.0	18.1		ug/L		91	76 - 123
Toluene	20.0	19.3		ug/L		96	80 - 123
trans-1,2-Dichloroethene	20.0	19.3		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	21.7		ug/L		108	57 - 129
Trichloroethene	20.0	18.0		ug/L		90	70 - 122
Vinyl chloride	20.0	15.7		ug/L		78	60 - 144
Xylenes, Total	40.0	41.4		ug/L		104	80 - 121
Chlorodibromomethane	20.0	20.2		ug/L		101	70 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
4-Bromofluorobenzene (Surr)	*104*		*56 - 136*
Toluene-d8 (Surr)	*98*		*78 - 122*
Dibromofluoromethane (Surr)	*98*		*73 - 120*

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

Lab Sample ID: 240-223713-2 MS
Matrix: Water
Analysis Batch: 655733

Client Sample ID: MW-D-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene	100	F1	40.0	92.9	F1	ug/L		-19	61 - 124		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
4-Bromofluorobenzene (Surr)	*102*		*56 - 136*
Toluene-d8 (Surr)	*100*		*78 - 122*
Dibromofluoromethane (Surr)	*96*		*73 - 120*

Lab Sample ID: 240-223713-2 MSD
Matrix: Water
Analysis Batch: 655733

Client Sample ID: MW-D-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	100	F1	40.0	99.2	F1	ug/L		-3	61 - 124	7	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*
4-Bromofluorobenzene (Surr)	*105*		*56 - 136*
Toluene-d8 (Surr)	*103*		*78 - 122*
Dibromofluoromethane (Surr)	*106*		*73 - 120*

QC Association Summary

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

GC/MS VOA

Analysis Batch: 655564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223713-1	MW-C-I	Total/NA	Water	8260D	
240-223713-2 - RA	MW-D-S	Total/NA	Water	8260D	
240-223713-4	MW-OS-1-I	Total/NA	Water	8260D	
240-223713-5	M-99	Total/NA	Water	8260D	
240-223713-7	TB-1	Total/NA	Water	8260D	
MB 240-655564/10	Method Blank	Total/NA	Water	8260D	
LCS 240-655564/5	Lab Control Sample	Total/NA	Water	8260D	
240-223713-2 MS	MW-D-S	Total/NA	Water	8260D	
240-223713-2 MSD	MW-D-S	Total/NA	Water	8260D	

Analysis Batch: 655733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223713-1 - RA	MW-C-I	Total/NA	Water	8260D	
240-223713-2	MW-D-S	Total/NA	Water	8260D	
240-223713-3	MW-I-S	Total/NA	Water	8260D	
240-223713-4 - RA	MW-OS-1-I	Total/NA	Water	8260D	
240-223713-5	M-99	Total/NA	Water	8260D	
240-223713-6	MW-OS-2	Total/NA	Water	8260D	
MB 240-655733/10	Method Blank	Total/NA	Water	8260D	
LCS 240-655733/5	Lab Control Sample	Total/NA	Water	8260D	
240-223713-2 MS	MW-D-S	Total/NA	Water	8260D	
240-223713-2 MSD	MW-D-S	Total/NA	Water	8260D	

Lab Chronicle

Client: Key Environmental, Inc
Project/Site: Alcoa - Wearever - Chillicothe

Job ID: 240-223713-1

Client Sample ID: MW-C-I
Date Collected: 05/05/25 10:20
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	655564	AJS	EET CLE	05/12/25 19:30
Total/NA	Analysis	8260D	RA	5	655733	AJS	EET CLE	05/13/25 19:52

Client Sample ID: MW-D-S
Date Collected: 05/05/25 11:10
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	655564	AJS	EET CLE	05/12/25 19:54
Total/NA	Analysis	8260D		2	655733	AJS	EET CLE	05/13/25 18:42

Client Sample ID: MW-I-S
Date Collected: 05/05/25 12:00
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655733	AJS	EET CLE	05/13/25 17:32

Client Sample ID: MW-OS-1-I
Date Collected: 05/05/25 12:50
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	655564	AJS	EET CLE	05/12/25 22:14
Total/NA	Analysis	8260D	RA	5	655733	AJS	EET CLE	05/13/25 20:16

Client Sample ID: M-99
Date Collected: 05/05/25 00:00
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655564	AJS	EET CLE	05/12/25 21:27
Total/NA	Analysis	8260D		40	655733	AJS	EET CLE	05/13/25 18:19

Client Sample ID: MW-OS-2
Date Collected: 05/05/25 13:15
Date Received: 05/06/25 09:20

Lab Sample ID: 240-223713-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655733	AJS	EET CLE	05/13/25 17:55

Lab Chronicle

Client: Key Environmental, Inc
Job ID: 240-223713-1
Project/Site: Alcoa - Wearever - Chillicothe

Client Sample ID: TB-1
Lab Sample ID: 240-223713-7

Date Collected: 05/05/25 05:00
Matrix: Water

Date Received: 05/06/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655564	AJS	EET CLE	05/12/25 19:07

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Key Environmental, Inc
Job ID: 240-223713-1
Project/Site: Alcoa - Wearever - Chillicothe

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	07-02-25
Iowa	State	421	05-31-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	06-30-25
New York	NELAP	10975	05-26-25
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	06-15-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

2.3128

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Josh Furman	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 240-132285-24798.1
Client Contact: Hank Pappert	Phone: 724-312-2949	E-Mail: Shali.Brown@et.eurofinsus.com	State of Origin: OH	Page: Page 1 of 1
Company: Key Environmental, Inc	PWSID:			Job #:
Address: 200 Third Avenue	Due Date Requested:			
City: Carnegie	TAT Requested (days):			
State, Zip: PA, 15106	Compliance Project: Δ Yes Δ No			
Phone: 412-429-2694(Tel)	PO #: Purchase Order not required			
Email: HPappert.2006@f-ts.com	WO #:			
Project Name: Alcoa - Wearever	Project #: 24006086			
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-PP VOC's	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-C-1	5/5/25	1020	G	W	N	N	X		
MW-D-5	5/5/25	1110	G	W	N	Y	X		
MW-D-5 MS/MSD	5/5/25	1110	G	W	N	Y	X		
MW-1-5	5/5/25	1200	G	W	N	N	X		
MW-OS-1-1	5/5/25	1250	G	W	N	N	X		
M-99	5/5/25	0000	G	W	N	N	X		
MW-OS-2	5/5/25	1315	G	W	N	N	X		
TB-1	5/5/25	0500	G	W	N	N	X		

Preservation Codes:
A - HCL

Other:

240-223713 COC

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
Josh Furman	5/5/25 1630		JMOROSKO	5/6/25 920	EMW
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:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client Key Environment Site Name
Cooler Received on 5/6/25 Opened on 5/6/25
Cooler unpacked by: JMcEOSKO

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN # 13 (CF TD.5 °C) Observed Cooler Temp 2.3 °C Corrected Cooler Temp 2.8 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4 Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	Yes	No
11 Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC457151
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 63271	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Labeled by:
Labels Verified by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired
Sample(s) were received in a broken container
Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory
Time preserved Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen.

5/6/2025

Login Container Summary Report

240-223713

7/14/2025 (Rev. 1)

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-C-1	240-223713-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-C-1	240-223713-B-1	Voa Vial 40ml - Hydrochloric Acid				
MW-C-1	240-223713-C-1	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-A-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-A-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-B-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-B-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-C-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-D-5	240-223713-C-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-I-5	240-223713-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-I-5	240-223713-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-I-5	240-223713-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-05-I-1	240-223713-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-05-I-1	240-223713-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-05-I-1	240-223713-C-4	Voa Vial 40ml - Hydrochloric Acid				
M-99	240-223713-A-5	Voa Vial 40ml - Hydrochloric Acid				
M-99	240-223713-B-5	Voa Vial 40ml - Hydrochloric Acid				
MW-05-2	240-223713-A-6	Voa Vial 40ml - Hydrochloric Acid				
MW-05-2	240-223713-B-6	Voa Vial 40ml - Hydrochloric Acid				
MW-05-2	240-223713-C-6	Voa Vial 40ml - Hydrochloric Acid				
TB-1	240-223713-A-7	Voa Vial 40ml - Hydrochloric Acid				
TB-1	240-223713-B-7	Voa Vial 40ml - Hydrochloric Acid				

240-223713 Wayb

eurofins | Environment Testing TestAmerica

Part # 159470-434 MTW EXP 11/25

ORIGIN ID:MNNA (724) 312-2949
JOSHUA FURMAN
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 05MAY25
ACTWGT: 25.45 LB
CAD: 6570482/ROSA2630
DIMS: 18x15x12 IN

BILL THIRD PARTY

Part # 159297-435 MTW EXP 01/26

TO

EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 44203

(330) 497-9396

INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0201 8810 3053 2681

TUE - 06 MAY 5:00P
STANDARD OVERNIGHT

64 CAKA

AHS
44203
OH-US CLE

Key Environmental, Inc.

DATE: July 3, 2025

FROM: Kendra Chintella

SUBJECT: Wearever Groundwater

Sample Delivery Group (SDG)	Sample ID
240-223713-1	MW-C-I, MW-D-S, MW-I-S, MW-OS-1-I, M-99 (MW-OS-1-I), MW-OS-2, TB-1

ANALYSES: Method 8260D (VOCs)

LABORATORY: Eurofins Laboratories, Inc., Cleveland

The data contained in this SDG were evaluated with regard to the following parameters:

- □ Sample Shipment
  Noncompliances: None

- □ Data Completeness
  Noncompliances: None

- □ Holding Times
  Noncompliances: None

- □ Laboratory Blank Contamination
  Noncompliances: None

- □ Field Blank Contamination
  Noncompliances: None

- □ Field Duplicate Precision
  Noncompliances:

FIELD DUPLICATE PRECISION					
ANALYTE	MW-OS-1-I	QUAL	M-99	QUAL	RPD
1,1-Dichloroethene	40		38		5.13
cis-1,2-Dichloroethene	1800		1700		5.71
trans-1,2-Dichloroethene	8.4		8.3		1.20
Trichloroethene	39		40		2.53
Vinyl chloride	210		200		4.88

- □ Surrogate Recovery
  Noncompliances: None

- □ Laboratory Control Sample
  Noncompliances: None

- □ Matrix Spike/Matrix Spike Duplicate Sample
  Noncompliances:

MS/MSD Sample	Compound	Recovery	Qualification
MW-D-S	Trichloroethene	MS/MSD Below	J